# DIRECT SURVIVAL AND CONDITION OF JUVENILE CHINOOK SALMON PASSED THROUGH AN EXISTING AND NEW MINIMUM GAP RUNNER TURBINES AT BONNEVILLE DAM FIRST POWERHOUSE, COLUMBIA RIVER

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## EXECUTIVE SUMMARY

As part of the Corps' Turbine Survival Program, survival probabilities were estimated for hatchery-reared chinook salmon, *Oncorhynchus tshawytscha* (average total length about 166 mm) passed through Units 5 (existing) and 6 (Minimum Gap Runner or MGR) at Bonneville Dam in November 1999 through January 2000. The new runner was designed to minimize the gap between the blade and hub as well as between the blade tip and the discharge ring. This design improves the turbine efficiency at most operating points and has the potential to improve fish survival. The primary objective of the study was to test the hypothesis whether the passage survival through the MGR unit equals or exceeds that of Unit 5. Secondary objectives were to determine (1) whether the peak turbine operating efficiency is correlated with turbine passage survival; (2) effectiveness of gap minimization; and (3) better identify injury mechanisms and in-turbine areas where fish injuries occur. The study was designed as a two by three by four factorial design (two turbines x three release locations x four power levels). Sufficient numbers of fish were to be released so that the resulting survival probabilities would be $\leq \pm 3\%$, 90% of the time.

The study objectives were accomplished by releasing fish through a specially designed induction system to pass fish near the blade tip, mid-blade, and hub regions in each turbine at four discrete power levels. The four power levels at Unit 5 were: power level 1, near the lower end of the 1% operating limit; power level 2, slightly below the peak operating efficiency; power level 3, beyond the peak operating efficiency; and power level 4, near the upper 1% operating limit. The same power levels were tested for the MGR unit but with different operating efficiencies and they were: power level 1, below the lower 1% operating limit; power level 2, slightly below the peak operating efficiency but within the 1% operating limit; power level 3, beyond the peak operating efficiency but within the 1% operating efficiency; and power level 4, beyond the upper 1% operating limit. The absolute efficiency of the MGR was greater than or equal to that of the existing unit at all test points.

Three separate metrics of fish survival were used to assess the effectiveness of the MGR in fish passage: (1) estimation of survival of turbine released fish relative to survival of control fish released downstream into the turbine discharge; this included all fish that were alive at 1 h and 48 h, regardless of their condition; (2) estimation of safe passage or unaffected fish; all injured fish and those showing loss of equilibrium were assumed dead and were considered as not safely passing the turbine; and (3) estimation of relative survival; this was based on estimating survival of blade tip and hub released fish relative to the survival of fish released near the mid-blade region. The latter estimation procedure was identical to that used in the recent study completed at McNary Dam, also a part of the Corps' Turbine Survival Program. All estimates apply only to the direct effects of the turbine runner and draft tube passage because the fish were released downstream of the stay vanes.

Recapture rates (physical retrieval of alive and dead fish) were high and met the pre-specified expectation used for sample size calculations prior to initiating the study. Recapture rates of treatment fish mostly exceeded 95% (range 94.6% to 99.1%) and those of controls were greater than 97% (range 97.6 to 100.0%). Most fish were recaptured within 500 yd downstream of the powerhouse; recapture times for controls averaged less than 7 min in any sample block (range 5.1 to 6.6 min) while those for the treatment fish were higher (average range 7.2 to 15.4 min). Treatment fish were generally retrieved at greater distances from the powerhouse than the controls.

The study established that the fish passage survival through the new MGR Unit 6 is equal to or better than through an existing unit. This was most evident for blade tip released fish. Depending upon the power level, absolute survival of the blade tip released fish in Unit 6 was up to 3% higher than for those passing near the blade tip in the existing Unit 5. Survival probabilities of mid-blade released fish were similar in both units except at power level 1 in MGR Unit 6 where survival was 2.2% higher than in Unit 5 (97.1 versus 94.9%). Survival probabilities of hub released fish were mostly greater than 0.98 in both units.

Of the 24 independent 48 h absolute survival estimates, 20 were $\geq 0.95$, 2 were 0.94, and 2 were 0.91 to 0.92. The lowest point survival rates were observed for the blade tip released fish in Unit 5 at power levels 2 and 4. Overall, significant differences ($P<0.05$) in survival were observed between release locations but not between turbines ($P>0.05$); the 48 h survival of blade tip released fish was lower than for the mid-blade and hub released fish. Survival between hub released and mid-blade release locations

was not significantly different (P>0.05). The estimates of absolute survival can be categorized as having an increasing gradient from blade tip to mid-blade to hub. The 24 independent estimates of absolute survival are summarized as follows (probabilities ≤0.92 are highlighted):

| Release Location | Power Level 1 | Power Level 2 | Power Level 3 | Power Level 4 |
|---|---|---|---|---|
| | | *Unit 5 (Existing)* | | |
| Blade tip | 0.945 (0.018) | ***0.920 (0.020)*** | 0.957 (0.017) | ***0.908 (0.020)*** |
| Mid-blade | 0.949 (0.019) | 0.955 (0.015) | 0.970 (0.015) | 0.968 (0.014) |
| Hub | 0.986 (0.012) | 1.017 (0.078) | 0.968 (0.016) | 1.004 (0.006) |
| | | *Unit 6 (MGR)* | | |
| Blade tip | 0.948 (0.017) | 0.943 (0.018) | 0.976 (0.014) | 0.939 (0.017) |
| Mid-blade | 0.971 (0.016) | 0.954 (0.016) | 0.961 (0.016) | 0.966 (0.016) |
| Hub | 0.982 (0.015) | 0.974 (0.014) | 0.982 (0.015) | 0.982 (0.013) |

Blade tip survival differences between units became more magnified when safe fish passage metric was used. Safe passage was 1.9% to 3.1% higher for blade tip passed fish in MGR Unit 6 than for Unit 5 blade tip fish. Safe passage estimates for mid-blade fish in both units were similar (range of 0.948 to 0.960 in Unit 5 and 0.947 to 0.965 in Unit 6). However, except for power level 3, safe passage for hub released fish in Unit 5 was 2.4 to 3.6% higher than in Unit 6. The 48 h estimates of safe passage are summarized below with survival probabilities <0.92 highlighted:

| Release Location | Power Level 1 | Power Level 2 | Power Level 3 | Power Level 4 |
|---|---|---|---|---|
| | | *Unit 5 (Existing)* | | |
| Blade tip | ***0.918 (0.023)*** | ***0.915 (0.021)*** | 0.947 (0.078) | ***0.900 (0.022)*** |
| Mid-blade | 0.948 (0.020) | 0.948 (0.017) | 0.960 (0.017) | 0.956 (0.017) |
| Hub | 0.992 (0.014) | 0.998 (0.011) | 0.968 (0.017) | 0.998 (0.011) |
| | | *Unit 6 (MGR)* | | |
| Blade tip | 0.948 (0.019) | 0.934 (0.019) | 0.970 (0.015) | 0.931 (0.019) |
| Mid-blade | 0.952 (0.020) | 0.947 (0.016) | 0.951 (0.017) | 0.965 (0.016) |
| Hub | 0.956 (0.019) | 0.962 (0.019) | 0.986 (0.014) | 0.974 (0.016) |

With respect to the results of relative survival probabilities, hub released fish had higher survival relative to survival of mid-blade fish in both units (1.04 in Unit 5 and 1.02 in Unit 6) while the survival of blade tip fish was lower than that of mid-blade released fish (0.97 in Unit 5 and 0.99 in Unit 6).

No statistically significant correlation was found between fish passage survival and turbine operating efficiency in either turbine. However, the highest point estimates of both absolute and safe passage survival in both units, at all release locations, occurred at power level 3 (beyond the peak efficiency and towards the upper 1% operating limit); 48 h survival probabilities for this power level equaled or exceeded 0.96 (range 0.96 to 0.98).

The incidence of fish injury was lower for fish passing through the MGR Unit than through the existing Unit 5. Overall incidence of injury was reduced by approximately 40% in the MGR unit (2.5% for Unit 5 and 1.4% for MGR). Reduction in injury was evident for blade tip passed fish (existing runner fish had a 3.9% injury rate versus 1.9% for the MGR) and the mid-blade region (2.3% in Unit 5 versus 1.0% in MGR). Very few hub released fish were injured in either turbine (0.7% for Unit 5 and 1.0% for Unit 6).

Most injuries at both turbines were inflicted by shear and mechanical forces. Shear inflicted injuries were primarily characterized by partial decapitation, hemorrhaged or ruptured eye, and damaged gill or operculum. Mechanical injuries were primarily lacerations, severed body or external bruises.

The presence of some severely injured MGR passed fish indicates that some hazardous features are still present, though at a reduced level, and further investigations may be needed to ascertain what other areas within the turbine environment could be made more benign.

Although experience from other sites shows that hub gap minimization is beneficial to safe fish passage its effectiveness at the Bonneville Dam MGR Unit 6 could not be fully verified because the terminus of the pipe for hub releases may have actually passed fish some distance away from the hub and along the blade region. This was supported by low fish injury rate and high survival rate in Unit 5 and the absence of pinching type injuries typical of gap-related damage. Unfortunately, these findings came to light too late for corrective actions to be implemented in the midst of the field experiment. Because the effectiveness of closing the hub gaps in the MGR unit may not have been fully evaluated in the present study, additional fish releases known to specifically pass the hub gaps would be beneficial. However, high survival (0.97 to 1.0) and low injury (≤1.0%) rates of "hub" passed fish for both units suggests that duplicating the localized hydraulic conditions encountered by these fish elsewhere in the turbine environment could further enhance safe fish passage over a wide range of operating conditions.

Finally, the study uncovered a hither to unknown passage issue which, when resolved, may also add to the overall fish survival enhancement. About 2.3% of the released fish, primarily blade tip and mid-blade, were entrapped in the tailrace stop log slots. Entrapment in these highly turbulent areas may cause delay for fish in exiting the draft tube, transport fish into a "back roll" like environment or abrasive areas, and subject fish to stress and perhaps more susceptible to predation. The magnitude of this potential problem and its possible solution could be ascertained by sampling naturally entrained fish in the tailrace stop log slots. It is unknown whether this issue is site-specific to Bonneville or relevant to other projects as well.

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## 1.0 INTRODUCTION AND BACKGROUND

The need to rehabilitate the aging turbines at many hydroelectric stations in combination with declining runs of anadromous fish has provided an opportunity for finding design solutions which increase energy generation, reduce maintenance, and afford safer fish passage. Although concern for safe turbine passage has spanned decades resulting in several reviews and site-specific investigations none provided adequate data specifically on mechanisms of fish injury/mortality (Holmes 1953; Bell 1981; Eicher Associates 1987; Dawley *et al.* 1989; Ledgerwood *et al.* 1990, 1991; EPRI 1992; Ferguson 1993). Missing were engineering and biological tests conducted under relatively controlled conditions (e.g., known stable turbine operating conditions, known multiple in-turbine release locations, statistically-based biological test design, quantitative turbine operating parameters, rapid collection and evaluation of treatment and control fish) to provide insights into injury mechanisms which can be used for investigating environmentally improved turbine designs (Franke *et al.* 1997; Mathur *et al.* 1996, 1999). Most of the past studies involved fish releases at a single point within the turbine environment and with the turbine operating over a wide range of power loads during tests. As an example, Holmes (1953) estimated survival of fall chinook salmon, *Oncorhynchus tshawytscha*, fingerlings (80 to 120 mm total length) in passage through a Kaplan turbine at the Bonneville First Powerhouse with the turbine operating over a wide range of conditions. Holmes' (1953) juvenile full turbine passage survival was estimated using adults returning to the Bonneville Dam. His estimates undoubtedly include post-passage mortality from all sources of risks (e.g., predation, disease, ocean mortality, fishing, etc.) encountered by juvenile emigrants from the time of turbine releases to their reentry into the river as adults several years later with no indication of direct effects of turbine passage. More recent studies at the Bonneville Dam Second Powerhouse (Figure 1-1) by Dawley *et al.* (1989), Ledgerwood *et al.* (1990, 1991) on sub-yearling chinook salmon (83 to 90 mm total length) provided relative passage survival rates of 97 to 98%. These estimates were based on the ratio of recovery rates of treatment and control fish (tagged with coded wire tags and recaptured in beach and purse seines) about 98 miles downstream of the dam over a period of several days; fish were, however, released at two locations within the studied turbine. None of the above site-specific studies were conducted under relatively controlled conditions (e.g., stable turbine operating condition, multiple in-turbine release locations) to provide insights towards developing "fish friendly" turbine designs.

In 1995 the U.S. Army Corps of Engineers (Corps) began a Turbine Evaluation Program by establishing a "Turbine Workgroup" which included participation from the Corps, National Marine Fisheries Service (NMFS), Bonneville Power Administration (BPA), U.S. Department of Energy (DOE), Electric Power Research Institute (EPRI), and private Utility Districts, among others (Corps 1995). This group was formed to help coordination of turbine studies and gain in knowledge. The turbine workgroup sponsored the "Turbine Survival Workshop" in May 1995. This workshop included discussions by 20 expert panel members as well as participation by other Federal, State, and Public entities. This workshop was the beginning of outlining the turbine research program of the Corps. Results of this workshop included the exchange of information and prioritizing of research needs for the program. The Corps presented a progress report on their turbine passage survival program for the years 1997 to 1999 (Corps 1999).

The first of 10 new turbine runners, designed by Voith Hydro, Inc., was recently installed at Bonneville First Powerhouse under the Bonneville Turbine Rehabilitation Program. The new turbine runner (designated as the Minimum Gap Runner or MGR) was designed/constructed to enhance fish survival, improve operational performance, and reduce maintenance costs. This design, featuring a runner blade with a minimized gap between the blade and hub, as well as between the blade tip and the discharge ring (Figure 1-2), improves the peak efficiency of the turbine and has the potential to improve fish survival as well. This potential was hinted at when survival of chinook salmon smolts improved at least 4.4% when the runner blade trailing edge gaps were closed at Rocky Reach Dam on the Columbia River (Franke *et al.* 1997). Additionally, tests on the Kaplan turbines at Wanapum Dam, about 270 mi upstream of Bonneville Dam, indicated that fish passing near the hub had a 4% higher mortality than those passing in the mid-blade region (Mathur *et al.* 1999). Closure or minimization of gaps between the runner blades and the hub and reduction in flow turbulence are being incorporated in a redesigned turbine at Wanapum Dam (Fisher *et al.* 2000). Mathematical projections indicate that these modifications could improve the

average survival by 4% (from 94% to 98%; Mathur *et al.* 1999). The turbine rehabilitation program at Bonneville Dam provided the need, as well as the opportunity, to compare survival of fish in passage through a conventional Kaplan turbine with the survival in passage through a turbine with minimum gap runner.

Several other hydro power projects are due for rehabilitation in the next decade. An understanding of fish passage and injury mechanisms in turbines will be essential for the development of safer turbines and also for a more comprehensive evaluation of rehabilitated units. Before turbines can be made "safer" for fish, it is imperative to understand the turbine passage process, identify injury-causing mechanisms, and determine the different areas within the turbine where fish are injured. To provide answers to these questions fish releases at exact locations at discrete discharges (operating efficiencies, power levels, blade angles, wicket gate openings) under controlled/stable conditions are needed. To date this has not been done well enough to provide the necessary knowledge needed for improved fish passage survival (Normandeau Associates and Skalski 1996; Normandeau Associates *et al.* 1999). However, an initial pilot study performed at McNary Dam turbine Unit 9 in 1999 (Wittinger *et al.* 1999) indicated the feasibility of obtaining the necessary biological and engineering information in enough detail to evaluate earlier turbine fish passage hypotheses and assumptions and to shed light on fish injury mechanisms within the turbine.

Although some specific areas within the turbine environment have been identified as potential fish passage hazards, a greater understanding of the mechanisms is needed for operation and management of projects as well as for turbine rehabilitation, development, and planning (Franke *et al.* 1997; Mathur *et al.* 1996, 1999). Ferguson (1993) noted a need for understanding how turbine environments could be altered for improved fish passage conditions and thus enhance fish survivability. Consequently, there is a need for experiments over relatively stable turbine operating conditions to provide insights into injury/mortality mechanisms; the resulting information then can be used for developing safe turbine passage routes.

The primary objective of the study was to test the hypothesis that survival of fish passing through the newly installed minimum gap runner MGR turbine (Unit 6) is greater than or equal to survival in passage through an existing turbine (Unit 5). Secondary objectives were to (1) evaluate the effectiveness of gap minimization; (2) better identify injury mechanisms and in-turbine areas where fish injuries occur; (3) determine the correlation of operating efficiency with fish survival; (4) evaluate and compare the effects of release locations and turbine passage routes in each turbine on fish survival and injury; and (5) provide survival estimates that are within ±0.03, 90% of the time. These objectives were accomplished via release of fish to pass near the hub, mid-blade, and blade tip at four different turbine operation levels in each turbine. The resulting data will be used in identifying potential design/operational improvements to turbines that will be tested in Phase II of the Turbine Survival Program and to guide other research.

One of the objectives of practical significance, from an operational standpoint, was the test of the hypothesis whether the fish passage survival is correlated with the point of best efficiency. Previous theories had postulated that best operating efficiency was coincident with the point of highest survival (Bell 1981). Based on this hypothesis, the Region placed operational constraints on the Corps' Kaplan turbines on the Columbia River so as to keep them operating within 1% of the best operating efficiency. Recent studies have reported that the point of best survival may not be correlated with the point of best turbine efficiency for Kaplan turbines (Fisher *et al.* 1997; Mathur *et al.* 2000). The recent hypotheses suggested that operational constraints limiting turbine operation to within 1% of the best operating efficiency may not be optimizing fish survival conditions (Fisher *et al.* 1997). Therefore, tests at Bonneville were designed to consider the effect of a range of operating conditions (discharges, powers, efficiencies) on fish passage survival. Figure 1-3 shows the operating point powers and efficiencies mutually chosen for fish releases.

As part of a broader program of the Advanced Hydro Design Program, the DOE sponsored the release of "sensor fish" to better understand fish injury/mortality causative mechanisms. The Battelle National Laboratory, Richland, Washington, conducted this study using the same fish induction system installed for the biological test. Sensor fish are instrumented packages with various probes to measure hydraulic parameters (e.g., pressure changes and velocity) which may be impinging on fish during passage within

the turbine environment. Each released sensor fish was equipped with four to six HI-Z Turb'N Tags (balloon tags) and a radio tag to aid in recapture from the tailwater after turbine passage. Some sensor fish were equipped with light sticks and monitored by video camera to determine the path traversed by entrained fish into the runner chamber. Preliminary results of the sensor fish and light stick releases were recently summarized by Carlson and Duncan (2000) at the Corps' sponsored turbine survival workshop in Portland, Oregon.

### 1.1 Study Site

Bonneville Dam is the first dam upriver (river mile 145 or river km 232) on the main stem Columbia River (Figure 1-1) and is located east of Portland, Oregon. It consists of two powerhouses, a spillway, and a navigation lock. The first powerhouse was completed in 1938 and is located between the Oregon shore and Bradford Island. The second powerhouse was built in 1982, and is located between the Washington shore and Cascades Island. The spillway, consisting of 18 gates, each 50 ft wide, is located between the Bradford Island and Cascades Island, spanning the north channel. The spill gates are raised to allow excess river flow to pass under them at a depth of about 50 ft below the upstream water surface. Spill gates are typically raised 1 to 7 ft to facilitate downstream migration of juvenile salmonids. Hydraulic capacity of the spillway is1,600,000 cfs.

The total hydraulic capacity of both the First Powerhouse and the Second Powerhouse is 288,000 cfs. The First Powerhouse has a rated generating capacity of 612 MW at full forebay and contains 10 vertical shaft adjustable blade Kaplan type turbines, each with a hydraulic capacity of about 13,600 cfs. The experiment was conducted at Units 5 (existing) and 6 (new MGR) at four discrete discharges of about 6,200, 7,000, 10,500, and 12,000 cfs (Figure 1-3). Though the turbines generally operate at a head of about 60 ft, the gross head during the test was generally constant at about 57 ft (Table 1-1).

Each existing turbine has a runner diameter of 280 in, a rotational speed of 75 revolutions per minute (rpm), and five runner blades. The leading and trailing edge gap sizes between the runner and hub and at the blade tip vary with blade angles. Table 1-2 presents the gap sizes at the hub and blade tip as a function of runner blade angles. Both units were set up to maintain four nearly constant wicket gate and blade angle settings at each of the four discharge rates. Table 1-1 also presents the daily variations in head, wicket gate opening, blade angle, turbine operating efficiency, and discharge for each release scenario. Appendix A provides daily values of these parameters during the investigation.

## 2.0 STUDY DESIGN

As in most recent investigations using the balloon tag-recapture methodology (Heisey *et al.* 1992, 1996; Mathur *et al.* 1996; Normandeau Associates *et al.* 1995, 1996a,b,c,d; Normandeau Associates and Skalski 1998), the present study obtained absolute estimates of survival, representing direct passage effects, for each release location. Estimates of survival for each release location-turbine discharge combination were obtained relative to survival of control fish released at the turbine draft tube exit (Figures 2-1 and 2-2). All tests were conducted with the intake fish diversion screens in place; in-turbine flow distribution can change with the installation of screens (Turner *et al.* 1993). Release points within each turbine (Figure 2-1) were established by routing treatment fish through smooth walled pipes of 4 to 8 in diameter. The specialized fish release induction system was designed and fabricated by the Corps. The pipes were designed to have exit release velocities near to the local velocity at the release points to minimize the chances of fish encountering potentially injurious hydraulic conditions at the pipe exit. The three release pipes (Figures 2-3 through 2-5) were positioned adjacent to the stay vanes to allow the treatment fish to pass between stay vanes and wicket gates without risk of striking these structures. The release positions were chosen to get the fish near the blade tip, the mid-blade, and at the hub. Observations of neutrally buoyant beads injected into a scale model of a similar Kaplan turbine tested at the Corps' Waterways Experimental Station, Vicksburg, Mississippi, were used to select release positions.

The biological study was originally designed as a two by three by four factorial design with three factors: two turbine types, three release locations, and four power levels (efficiencies) to provide 24 independent survival estimates for assessment of main effects and their interactions. However, as the study progressed it became evident that the turbine operating efficiencies and discharge varied more than expected on a

daily basis. Consequently, the prespecified statistical models selected were modified as the study progressed to better analyze (e.g., analysis of deviance and regression analysis; see Section 2.7) the resulting 24 independent survival estimates as well as daily survival estimates.

A variation of the randomized block design was proposed for fish releases. Within a day, 120 smolts were to be released, 40 each in the two turbines (treatment) at a specific location and 40 controls in the turbine discharge (Table 2-1). However, high recapture and control survival rates permitted reduction in control release numbers during the last two test blocks (24 days). In these two test blocks, 45 fish released through each turbine were paired with a release of 30 control fish. Logistics precluded randomizing the order of all 120 fish daily. Instead, 20 fish of each group were released sequentially. The order of the first 60 fish was randomized between the two treatments (20 fish each) and control (15 fish each) lots. The last 60 fish of the day were handled in an analogous manner using a new randomization; every 12 days constituted a test block. Five test blocks were repeated until the required sample sizes were achieved. Table 2-2 shows the sequence of fish releases. Detailed summaries of the daily trial data is present in Appendix A.

## 2.1 Sample Size and Precision (ε)

The sample size is a function of the recapture rate ($P_A$), expected passage survival ($\hat{\tau}$) or mortality ($1-\hat{\tau}$), survival of control fish (S), and the desired precision (ε) at a given probability of significance (α). In general, sample size requirements decrease with an increase in control survival and recapture rates (Table 2-2). Only precision (ε) and α levels can be strictly controlled by an investigator. Expression to calculate sample sizes for achieving a specified precision (ε) level is given in Normandeau Associates *et al.* (1996a).

We calculated that with the following conservative assumptions of a recapture rate of 0.95, control survival of 0.95, and the expected passage survival ($\hat{\tau}$) of 0.95, a sample size of 745 fish was needed to attain precision (ε) of ≤±0.03, 90% of the time (Table 2-3). With a control survival rate of 0.99, a recapture rate of 0.95, and the same expected passage survival of 0.95, the required sample size drops to 495 fish; changing the recapture rate to 0.98, the sample size further drops to 314 fish.

The assumptions of expected and potential survival and recapture rates were initially based on data from 36 different turbine passage studies using the balloon tag-recapture technique on juvenile salmonids at hydroelectric dams on the Columbia River Basin. Table 2-4 shows the number of fish released, observed control survival, recapture rates, estimated survival probabilities, and resulting precision (ε) for these experiments. Control, survival, and/or recapture rate was ≥98% in 31 of 36 (86.1%) of these tests and passage survival was ≥96% in 69.4% of these tests. Recapture rate for treatment group was ≥96% in 80.5% of these tests.

Initially, we allocated 200 fish for each treatment (24 treatments times 200 fish=4,800 fish) and 200 control fish (12 control releases times 200 fish=2,400 fish) to match with two simultaneous treatment releases. Although the temporal and logistical constraints (scheduled for late fall and winter) limited the selection of sample size to 200 fish per treatment, results from other studies at several hydro dams on the Columbia River Basin (RMC and Skalski 1994a,b; RMC *et al.* 1994; Normandeau Associates *et al.* 1995, 1996a,b,c,d) indicated that the desired precision level (ε) of ≤±0.03, 90% of the time of the survival estimates could be achieved with this release scheme. The allocated sample size was also deemed sufficient to answer the broader question of whether the MGR unit survival was better than or equal to that of an existing unit.

Since the data were to be analyzed on a daily basis to test the adequacy of the sample size in fulfilling the objectives of the study, the number of fish released could be adjusted accordingly. This strategy has been successfully employed in previous studies involving the balloon tag-recapture method at hydro dams on the Columbia and Snake Rivers (Mathur *et al.* 1996; Normandeau Associates *et al.* 1995, 1996d, 1999; Normandeau Associates and Skalski 1998).

The embedded flexibility in the experimental design, permitting adjustment of sample sizes released, proved beneficial during the investigation. As stated earlier, it became evident that fewer fish had fulfilled the objectives of the study for some test conditions, thus, the remaining fish for those test conditions were allocated to other test conditions. For example, additional fish releases were allocated to blade tip location

(Table 2-2) to confirm that observed results were not due to random variation.

## 2.2 Source of Fish

Two sources of hatchery-reared chinook salmon had to be utilized for our experiment. Initially, we had planned to use only smolts reared in the Lewis River Fish Hatchery, Washington. However, during the latter part of the study it was found that an adult coho salmon, *Oncorhynchus kisutch*, at the Lewis hatchery had been infected with a virus and no additional fish could be obtained due to a quarantine. Thus, fish from Ringold Hatchery (near Richland, Washington) were used during the last two days of Test Block 4 and all of Test Block 5. Observations indicated that these fish were smaller in size (mean 151 versus 169) and appeared somewhat lethargic when transported and held at the Bonneville project site. These fish were pond-reared at water temperature of about 15°C (59°F) and had to be gradually acclimated to ambient river temperature, near 5°C (41°F) at Bonneville.

Approximately 8,000 hatchery-reared juvenile chinook salmon were transported from these sources in a truck-mounted tank to the project site in lots of approximately 750 fish. At the project site, fish were held in raceways for juvenile salmon at the Bonneville Dam Second Powerhouse Fingerling Engineering and Research Laboratory. Fish were held a minimum of 24 h prior to tagging to acclimate them to ambient conditions. Fish for the different test conditions were drawn from the same group of fish assuring similar size and condition. Figures 2-6 through 2-9 show the length frequency distributions of the treatment and control groups. The average lengths for treatment and control groups were similar for each release location over all releases; the average lengths for various groups were within 15 mm. Juvenile chinook salmon from both hatcheries were not smolted.

## 2.3 Tagging and Release

Balloon tagged juvenile salmonids were released at three specific locations (hub, mid-blade, and blade tip) within the turbine environment of both an existing unit (Unit 5) and the MGR Unit 6 (Figures 2-3 through 2-5). These releases occurred at four different discharges and the associated turbine operating efficiencies from each turbine (Figure 1-3). The release locations were based on results of the physical model studies at the Waterways Experimental Station, Vicksburg, Mississippi, and the induction hose terminus were positioned so the fish pass the turbine runner at three specific areas. However, post examination of passage data suggested that fish released near the hub may not have traversed the desired specific route.

Fish handling and tagging techniques were similar to those used elsewhere (Heisey *et al.* 1992; Mathur *et al.* 1996; Normandeau Associates *et al.* 1995, 1996a,b,c,d, 1999). Lots of 5 to 10 fish were randomly taken from holding tanks to the adjacent tagging site with a water sanctuary equipped net. Fish displaying abnormal behavior, severe injury, fungal infection, descaling (>20% per side), or other anomalies were not used. The same fish selection criteria were applied to both the treatment and control groups. Fish were anesthetized in 0.5% MS 222 (<5 min) and then equipped with two uninflated balloon tags and a miniature radio tag. Tags were attached by a stainless steel pin inserted through the musculature beneath the dorsal and adipose fins. The radio tag was attached in combination with the dorsal balloon tag. A uniquely numbered VI tag (Visual Implant, Northwest Marine Technology, Inc., Shaw Island, WA) was also inserted in the postocular tissue for use in tracking 48 h survival of individual recaptured fish. A fin was also marked or clipped as a secondary means to identify fish of each release location/turbine/discharge in the event that any VI tags were dislodged. These marks were holes in lower or upper caudal, left pelvic clip, or right pelvic clip.

Prior to release through the induction apparatus (Figure 2-10) fish were allowed to recover from anesthesia. Generally, a single fish was released for each recapture boat, upon recapture from the tailrace another fish was released. Fish were placed individually into the induction system holding tub, tags activated, and fish released. The inflation time of the balloon tags was regulated to a certain extent by varying the temperature and amount of water injected into tags prior to release. All procedures used in handling, tagging, release, and recapture of fish for all release groups were identical. Treatment fish were released via a combination of 4 to 8 in diameter smooth walled steel pipes that directed the fish to the three release points within each turbine (Figures 2-3 through 2-5). Each delivery line was designed so that

the water velocity at the terminus of each pipe was similar to the water velocity passing by the outside of the pipe (about 16 ft/s). This minimized the chances of fish encountering potential injurious hydraulic shear conditions at the exit point.

Post-passage dispersal of the fish was determined from the radio signals received on a 5-element Yagi antenna coupled to a receiver (Advanced Telemetry Systems, Inc., Insanti, Minnesota). Fish were tracked and recaptured by four boats when the balloon tags buoyed them to the surface. Generally, the recapture boats were deployed approximately 50 yards downstream. To minimize gull predation, an individual from the U. S. Department of Agriculture hazed and exterminated gulls frequenting the fish retrieval zone; the gull predation minimization program was instituted on December 16, 1999 after completion of the first two test blocks.

The retrieval location of most fish was determined by Global Positioning System (GPS) technology. Appendix B provides recapture locations for treatment and controls. Locations were not recorded when the GPS equipment could not capture the appropriate number of quality satellite signals or if conditions at the recapture site hindered holding boat position.

Recaptured fish were placed into an on-board holding facility and the tag(s) were removed by a pin puller (Heisey *et al.* 1992). Each fish was examined for descaling and injuries and assigned codes relative to descriptions presented in Table 2-5. Recaptured fish were transferred in 5 gal pails to one of four on-shore tanks for estimating 48 h survival. Initially, these 2 ft deep, 8 ft long, by 1.5 ft wide rectangular tanks were located on the tailrace deck and continuously supplied with water from the adult fishway collection channel. However, these tanks had to be relocated to the intake deck because an analysis of the holding water by the Corps' personnel showed high concentration of total dissolved gas (>135%). The water analysis was spurred on by observation of unusually high fish mortality of both the treatment and control groups at about 12 to 24 h holding period. Upon examination, these dead fish exhibited typical symptoms of gas bubble disease (e.g., emboli on fins, gills, etc.). Consequently, of necessity, data for fish tested on17 November 1999 were not included in the 48 h survival estimation analysis. However, data for 1 h were included for immediate survival estimation. Because of a high flow event and clogged pumps, 48 h survival data for fish tested on 24 November 1999 were also excluded from the analysis. A flow-through system maintained approximately 400 gal of water in each pool. Fish from all release locations on each day were held in the same tank.

The induction system for the release of control fish was slightly different from that of the treatment fish. It consisted of a 20 gal release tank coupled to a 4 in diameter flexible hose. Fish were placed individually into the induction system holding tub, tags activated, and fish released. However, all procedures used in handling, tagging, and recapture of fish in both treatment and control groups were identical. Control fish were released in the turbine Unit 5 discharge (Figure 2-2) primarily to evaluate the effects of handling, tagging, induction, and recapture, as well as to provide additional data on recapture probabilities. Turbine operating status at the time of fish release was recorded and presented in Appendix A.

## 2.4 Classification of Recaptured Fish

The immediate status of an individual recaptured fish or dislodged balloon(s) was designated as described in RMC and Skalski (1994a,b) and Normandeau Associates *et al.* (1995, 1996a,b,c,d). Immediate direct passage effects on each fish were designated as alive, dead, predation, recapture of dislodged balloons, and unknown. The following criteria have been established to define these designations: (1) alive--recaptured alive and remained so for 1 h; (2) alive--when the fish does not surface but radio signals indicate movement patterns typical of emigrating juveniles; (3) dead--recaptured dead or dead within 1 h of release; (4) dead--when only dislodged inflated tag(s) are recovered without the fish and telemetric tracking or the manner in which tags surfaced is not indicative of predation; (5) unknown--when neither tags nor fish are recovered and radio signals are not received or only briefly and an exact status cannot be ascertained; and (6) predation--when fish are either observed being preyed upon, the predator is buoyed to the surface, distinctive bite marks on recaptured fish are present, or subsequent radio telemetric tracking and/or dislodged tag recovery indicate predation (*i.e.*, rapid movements of tagged fish in and out of turbulent waters or sudden appearance of fully inflated dislodged tags). In estimation of passage survival, these fish are treated as dead. However, fish with injuries attributed to gull attacks (e.g., clear bite marks,

observed attacks) were not included when ascribing injury rates to causal mechanisms induced by the turbine environment.

Injuries were evaluated immediately following recapture and later during a detailed examination after expiration of the 48 h holding period. Injury and descaling were categorized by type, extent, and area of body. A fish was classified descaled if >20% scales were missing on a side. Fish without any visible injuries that were not actively swimming were classified as "loss of equilibrium". This condition has been noted in past studies and often disappears within 10 to 15 minutes after recapture. Photographs of expired injured fish and injuries were taken with a standard and digital camera. Alive fish with visible injuries were photographed after a 48 h holding period. Photographs of injured fish and a ZIP disk of the digitally acquired photographs, along with a directory of these photos, is presented in Appendix C.

Mortalities occurring >1 h post-passage were considered 48 h mortalities. However, held fish were evaluated at intervals of approximately 12 h. Dead fish were identified by the numbered VI tag or fin clip (if the VI tag was missing) and necropsied to determine the potential cause of death.

An unusual event was uncovered during the fish recapture phase of the experiment. In some initial release trials, observations were made that suggested all the treatment fish may not be exiting the turbine draft tube and were suspected of being "trapped" somewhere. Upon further investigation it was determined that some fish entrapment was occurring in the tailrace stop log slots (Figure 2-1). In all, 121 of the 5,193 treatment fish (2.3%) became entrapped in the tailrace stop log slot and failed to enter the tailrace (Table 2-6). Most (95%) trapped fish were from the blade tip and mid-blade releases. These gate slots are positioned along the ceiling of the draft tube. They are also under the public access road that crosses the tailrace deck at the First Powerhouse. The location of the tail log slots constrained fish retrieval in a timely fashion. An attempt was made to exclude fish from entry into these slots by installing barrier screens and plates (excluders) over the opening into the slots from the draft tube. However, these excluders performed satisfactorily for only a few days until they were damaged by strong hydraulic forces.

Prior to installation of the excluders on 24 November 1999, 13 fish were trapped during seven test days. One additional fish was trapped on 24 November before the installation of the excluders was completed. Only two fish were trapped in the ensuing seven days when power levels were 1, 2, and 3. The first day of power level 4 testing (2 December 1999), three fish were trapped. Subsequently, fish were trapped more frequently.

An underwater camera was lowered to examine the excluder condition on 8 December 1999 while the unit was operating. However, high currents smashed the camera and no information could be obtained. A second underwater camera was successfully deployed to examine the excluders on 13 December 1999. The units were taken offline and the camera revealed that the excluders were damaged with sections missing and other sections bent back which opened areas for the fish to enter into the gate slot. The damaged excluders were removed on 15 December 1999.

After 15 December 1999, the Corps' maintenance crew generally pulled the tailwater gate slot covers at 1500 h Monday through Thursday. Normandeau personnel used a dip net to recover the fish and separate balloons from the gate slots. Fish trapped in the gate slots on Friday through Sunday were generally not recaptured except for a few occasions. During the course of the study, 57 trapped fish were recaptured from the gate slots. All but five of these fish were alive. Three fish were from Unit 5 and two fish from Unit 6. These five fish had severing type injuries which appeared to be turbine induced. Except for these fish, most alive trapped fish were replaced due to the extra time the fish were trapped prior to recapture. A total of 2,558 and 2,547 fish passed through Units 5 and 6, respectively, were used in the fish survival/condition analysis (Table 2-6).

## 2.5 Injury Classification

Minimal controlled experiments to replicate and correlate each injury type/characteristic to a specific causative mechanism hamper definitive classification of observed injuries in the field. Though there was a higher probability of accurately identifying injury causal mechanisms in this study than in previous similar studies because the fish were released close to specific potentially hazardous areas of the turbine.

There may still be some element of speculation about the injury causal mechanisms; however, sliced, torn, and pinched fish bodies could be assigned to turbine blade contact with greater certainty. Injuries likely associated with direct contact with turbine runner blades or structural components are classified as mechanical and include: bruises/hemorrhaging, lacerations, and severed/sliced body (Dadswell *et al.* 1986; Eicher Associates 1987; RMC and Skalski 1994a,b). Contact with turbine structural components may also result in swaths of scale loss. Injuries likely attributable to shear forces are partial decapitation or complete decapitation (with the isthmus attached to the body), torn or flared opercula, and inverted or broken gill arches (Dadswell *et al.* 1986). The pressure-related effects can be manifested as bloody eyes, popped eyes, air bladder rupture, and embolism. However, recent injuries observed at Battelle Northwest in the laboratory on juvenile salmon indicated missing and ruptured eyes can also be shear induced (Neitzel *et al.* 2000). Because each fish was equipped with a uniquely numbered VI tag it was possible to identify those injuries that contributed to 48 h mortality.

For ease of understanding, injured fish were divided into two basic groups: (1) fish with visible injuries that included: missing eyes, decapitation, severed bodies, hemorrhaging, lacerations, and (2) fish with descaling or loss of equilibrium. Probable causes of injury (e.g., mechanical, shear, or pressure-related) were ascribed to injured fish depending upon the observed injury characteristics. Description of injuries observed on each fish are given in Appendix C.

## 2.6 Station Operational Considerations

The test was to be conducted at turbine Unit 5 (existing) and 6 (MGR) at four discrete turbine operating efficiencies (Figure 1-3). These settings correspond to about 6,200, 7,000, 10,500, and 12,000 cfs at a gross head at about 57 ft. The following operational parameters were recorded when fish were released: wicket gate angle, blade angle, output (kw), discharge (cfs), gap size, and gross head (Tables 1-1 and 1-2). Data for each operating scenario when fish were released are presented in Appendix A. These turbine operating efficiencies (power levels) were to be replicated over time. However, in practice, there was more day-to-day variation in turbine operating efficiencies than expected (Table 1-1).

## 2.7 Data Analysis

All statistical analyses were performed by Dr. John R. Skalski, University of Washington, Seattle, Washington. Results of these analyses, data utilized, and statistical models used are attached as Appendix D. The basic tag-recapture data given in Appendix A form the basis for all the statistical analyses reported herein. Only the summarized results are presented in the main body of the report.

Three separate metrics of survival were computed: absolute survival rate was calculated as survival of treatment group relative to survival of controls released in the draft tube discharge (Appendix D-I), safe passage rate was calculated from alive treatment fish free of injury and loss of equilibrium relative to alive controls free of injury and loss of equilibrium (Appendix D-II), and relative survival was calculated from survival of one treatment group relative to survival of another treatment group (Appendix D-III), controls were ignored in these estimates as was done in the McNary Dam experiment (Normandeau Associates *et al.* 1999).

In the present case, survival probabilities for blade tip and hub released fish were estimated relative to survival of mid-blade released fish. The impetus for these calculations was the earlier hydraulic scale model studies of McNary turbine which had indicated that mid-blade region was expected to have the highest survival relative to other fish release locations. These calculations provide a test of that hypothesis. Appendix D-III provides the likelihood model used, assumptions of the statistical model, and model outputs.

Briefly, the following analyses were performed to satisfy specific needs. Smolt survival rates (both absolute and safe fish passage) under each treatment condition were analyzed to assess the effects of treatment factors (two turbines, three release locations, and four power levels). For this analysis, the 1 h and 48 h survival data from replicate days under similar treatment conditions were pooled; data from all the control releases were also pooled. Thus, 24 treatment conditions and one control condition were simultaneously analyzed to assess the effects of treatment condition on survival. The fish recoveries from the control and 24 treatment releases were analyzed by a joint likelihood model composed of 25 different

independent trinomial distributions (see Appendices D-I and D-II). Analysis of Deviance (ANODEV) was used to assess the effects of treatment factors in the factorial design. Appendices D-I and D-II provide the likelihood models used, assumptions of the statistical models, and the resulting outputs along with graphical displays. Smolt survival for the 24 release conditions is presented in Appendix D-I (absolute survival) and D-II (safe fish passage).

To evaluate the relationships between daily survival and the various turbine operating parameters (efficiency, operational head, wicket gate openings, runner blade angles, and discharge) regression analyses (linear and quadratic) were performed (Appendix D-IV). These analyses examined various characterizations of turbine operations singularly and jointly in attempting to explain daily variation in smolt turbine passage survival. Separate analyses were performed for each turbine. Appendix D-IV provides the data used for these analyses, statistical model, and the resulting outputs with scatter plots.

A likelihood ratio test was used to determine whether recapture probabilities were similar for alive ($P_A$) and dead ($P_D$) fish (RMC and Skalski 1994a,b). The statistic tested the null hypothesis of the simplified model ($H_O$:$P_A$=$P_D$) versus the alternative of the generalized model ($H_A$:$P_A \neq P_D$). Depending upon the outcome of this analysis the parameters and their associated standard errors were calculated using either the simplified or generalized model for the absolute, safe passage, and relative survival probabilities.

Chi-square analyses (contingency tables) were performed to test for homogeneity (P=0.05) between treatment releases with respect to recapture probabilities of alive, dead, and non-recovered fish (Appendix D-V). Homogeneity between daily trials allowed pooling of data.

Fish recovery locations were divided into four zones and homogeneity in recovery proportions between zones was tested by an R x C contingency (see Appendix D-VI). Figure 2-11 shows the four recovery zones that were used in the R x C analyses. The second analysis of fish recovery locations involved the use of Kolmogorov-Smirnov test of equality (Conover 1971) of the empirical distributions for recovery distances. Appendix D-VI provides the detailed analyses of these data.

## 3.0 RESULTS

### 3.1 Recapture Rates

Recapture (physical retrieval of alive and dead fish) proportions of all groups were high (Table 3-1). Recapture proportions for treatment groups equaled or exceeded 0.95 while over 0.97 of controls were retrieved. The proportion of alive recaptured fish was >0.95 for all hub and mid-blade release groups; the proportion of alive recaptured fish was less for the blade tip release groups (0.90 to 0.97). The status of less than 0.02 of the total fish in any release group was unknown; it exceeded 0.01 in only three release groups (two for Unit 5 blade tip and one for Unit 6 blade tip). The status of virtually all the controls was known.

Chi-square tests (see contingency tables in Appendix D-V) were conducted to examine the assumption of homogeneity among various release groups for data pooling. In cases where frequencies were too sparse the counts of dead and unknown were summed to form a single joint column. These analyses indicated no significant difference in proportions of alive versus dead and unknown between control groups ($P(\chi^2 \geq 8.13)=0.001$).

Likelihood ratio test showed significant difference ($P<0.05$) between the simplified ($H_O$:$P_A$=$P_D$) and generalized ($H_A$:$P_A \neq P_D$) models; recapture probabilities for $P_A$ (alive) and $P_D$ (dead) fish were not equal. Thus, survival probabilities and their associated errors were estimated using the generalized model.

### 3.2 Retrieval Times and Locations

Average retrieval times for treatment groups (the time between release through the induction system until the fish was retrieved) ranged from 7.2 to 15.4 minutes (Figures 3-1 through 3-4). Control releases were retrieved within seven minutes. Median retrieval times were shorter (4 to 7 min) and similar between the treatment (4 to 7 min) and control (4 to 5 min) groups. The difference in the average retrieval times between the control and treatment fish may be partially related to the passage route and tailrace hydraulics experienced by the different groups of fish. Most control fish were retrieved nearer to the powerhouse and

thus, in shorter time periods, while some of the treatment fish were retrieved at greater distances from the powerhouse. The recapture time was greater than 200 min (maximum 478 min) for 20 treatment fish, while the maximum recovery time for any control fish was 121 min.

Kolmogorov-Smirnov test results indicated that recovery distances of treatment groups were significantly greater ($P<0.05$) than for controls (see Tables 1 through 6 of Appendix D-VI). Turbine released fish experienced a more diverse distribution pattern upon exiting the draft tube than controls. Controls were released from a fixed location at the draft tube exit. Differences in the hydraulic conditions at the control release site likely contributed to differences in subsequent fish distribution. However, most fish (treatment and control) were retrieved within 500 yd downstream of the powerhouse.

Chi-square contingency tests essentially corroborated the findings from the Kolmogorov-Smirnov test results (Appendix D-VI). The highest proportion of control recaptures occurred near the powerhouse while recapture of treatment groups occurred farther away from the powerhouse.

Within turbine releases, recovery locations of the hub, mid, and blade tip released fish were homogeneous ($P>0.05$) in turbine 6 (Appendix D-VI). However, in turbine Unit 5, the recovery location of blade tip released fish was significantly different ($P<0.05$) from that of the hub and mid-blade releases; recovery locations of the latter two were not different ($P>0.05$) from each other. Recovery locations of blade tip released fish were significantly different ($P<0.05$) between turbine Units 5 and 6 while the recovery locations of mid and hub released fish were similar ($P>0.05$).

The retrieval location of most fish occurred from the area immediately in front of the powerhouse (within 500 yds) to a point where the discharge from Bonneville First Powerhouse intersects with the spillway and the Second Powerhouse discharges (Figures 3-5 to 3-7 and Appendix B). Some fish were observed in the roll-back of Units 5 and 6 and would move laterally across the powerhouse, others were not seen, or signals went undetected, in the primary recapture area. However, they were later found downstream after the signal was acquired, indicating they did not approach the surface as soon as other fish.

## 3.3 Passage Survival Probabilities

### 3.3.1 1 h Absolute Passage Survival

Except for turbine Unit 5 blade tip at power levels 2 and 4 (survival of 0.93 and 0.91) the estimated immediate (1 h) survival probabilities of the other 22 treatments equaled or exceeded 0.95 (Table 3-2 and Figures 3-8 and 3-9). However, some differences were apparent in absolute survival point estimates between locations within turbines and between turbines. With respect to release locations, fish passage survival probabilities were ≥0.96 at mid-blade and hub in both turbines; ranges were 0.96 to 1.01 for Unit 5 and 0.96 to 0.99 for Unit 6. Blade tip releases had lower survival probabilities than mid-blade and hub releases in both turbines at all four power levels tested. Differences in the hub released fish survival and that of the blade tip fish were most pronounced in turbine Unit 5 where the highest differences (0.076 to 0.095) occurred at power levels 2 and 4 (Table 3-2 and Figures 3-8 and 3-9). The blade tip fish survival probabilities were lower at Unit 5 than at Unit 6. The largest difference (0.041) between the two turbines for blade tip released fish occurred at power level 4. In general, there was an increasing gradient of survival from the blade tip towards mid-blade to the hub in both turbine units.

With respect to the relationship of power levels to survival only small differences were observed (Table 3-2). In both units, survival was consistently high (0.96 to 0.99) at power level 3 (beyond the peak operating efficiency). At power level 2, which was slightly below peak operating efficiency, survival was less variable in Unit 6 (0.95 to 0.97) than in Unit 5 (0.93 to 1.01).

The results of the Analysis of Deviance (ANODEV) showed significant ($P<0.05$) differences in 1 h immediate survival between the blade tip fish and mid-blade and hub released fish in both turbines. No significant effects ($P>0.05$) of two-way interactions between turbines, power levels, or release locations were evident. Appendix D-I provides the output of the ANODEV and the data used in the analysis.

### 3.3.2 48 h Absolute Passage Survival

The 48 h survival probabilities followed the pattern similar to the immediate survival (Table 3-2). Little

mortality (<2%) occurred during the holding period. Again, except for lower survival (0.91 to 0.92) of turbine Unit 5 blade tip released fish at power levels 2 and 4, all other (22) survival probabilities equaled or exceeded 0.94. As in the case of 1 h survival, Analysis of Deviance indicated no significant (P>0.10) two-way interactions between turbines and power levels, or release locations. Of the main effects, release locations had a significant effect (P=0.013; Appendix D-I). Hub released fish at both turbines had significantly (P<0.05) higher survival than the blade tip and mid-blade released fish. Blade tip and mid-blade released fish did not have significantly different (P>0.05) survival probabilities. Appendix D-I provides detailed results of statistical analyses of the 48 h survival data.

The relationships of 48 h fish survival estimated at seven turbine operating parameters (discharge, head, wicket gate operation, blade angle, generation, and efficiency) were examined by regression analyses (linear and quadratic functions; Table 3-3). Detailed results of these analyses, models used, along with the data used in these analyses, are given in Appendix D-IV. Briefly, the principal highlights of these analyses are as follows. Of the 36 regression analyses performed, none were significant (P>0.10); values of $R^2$ ranged from 0 to 0.1533. Of particular note was an absence of significant relationship (P>0.10) between survival and turbine operating efficiency. Figure 3-10 shows the plots of smolt survival versus turbine operating efficiency.

### 3.3.3 48 h Safe Passage Survival (Unaffected Fish)

Survival probabilities (48 h) were calculated for fish free of injury and/or loss of equilibrium (designated non-affected fish or safe passage); dead or injured fish and those showing loss of equilibrium were assumed dead in this analysis. The resulting data were subjected to the same statistical analyses as was done for the absolute survival estimates discussed above. A likelihood ratio test rejected the simple release-recapture model ($H_O$:$P_A$=$P_D$) in favor of the full model ($H_A$:$P_A$≠$P_D$) with ($P(\chi^2 \geq 9.06)=0.0026$). Table 3-4 presents the 48 h estimates of safe turbine passage for the 24 different treatments. Overall, passage was safer through Unit 6 than Unit 5. All the survival probabilities in passage through Unit 6 were higher than 0.93 (range 0.931 to 0.986) with most estimates ≥0.95, except at the blade tip at power levels 2 and 4 (0.93). In contrast, three survival estimates (all at blade tip) in Unit 5 were less than 0.92 (range 0.90 to 0.918). The survival ranged from 0.947 to 0.998 for the remaining locations and power levels in Unit 5. Highest safe passage (0.956 to 0.998) occurred for the hub released fish regardless of turbine or power level.

Analysis of Deviance (Appendix D-II) found significantly higher safe passage for blade tip fish in Unit 6 than in Unit 5. However, a significant (P=0.056) location-by-turbine interaction was also found rendering the significance of main effects non-interpretable. Because of the significant interaction, survival estimates are obtained by pooling across power levels only. These estimates are summarized by release location for each turbine in Table 3-5. Hub release fish had higher safe fish passage in Unit 5 (0.989) than in Unit 6 (0.969) while the reverse was true for the blade tip fish (0.919 for Unit 5 versus 0.945 for Unit 6). Safe passage was identical (0.953) for mid-blade passed fish at both units.

The differences between the absolute survival and safe passage point estimates at the three passage routes (hub, mid-blade, and blade tip) were less than 0.013 (0.005 to 0.012) indicating most mortality is instantaneous (Table 3-5). The largest differences occurred at the hub release location in Unit 6 (0.011) and at the blade tip in Unit 5 (0.012).

### 3.3.4 Relative Survival Probabilities

For the sake of completeness and consistency with the recent study at McNary Dam Unit 9 (Normandeau Associates *et al.* 1999), relative survival probabilities were also calculated. Appendix D-III provides the statistical model used and its output. These calculations estimate survival at any location within a turbine relative to the fish survival at another location. Control release data are ignored in this estimation. In the present situation, survival of smolts passing near the blade tip or the hub were estimated relative to those passing the mid-blade region which is hypothesized to be benign (Normandeau Associates *et al.* 1996d, 1999). Separate estimates were made for each turbine. The release-recapture data were pooled across power levels for this comparison because no significant relationship was found between survival and power levels (see Sections 3.3.2 and 3.3.3). A likelihood-ratio test was used to determine whether

recovery probabilities for alive and dead fish were equal. The likelihood ratio test rejected ($P(\chi^2 \geq 4.93)=0.026$) the null hypothesis ($H_O:P_A=P_D$) for turbine Unit 5 data and thus the fully parameterized likelihood model ($H_A:P_A \neq P_D$) was used in the analyses. However, for turbine Unit 6 data the null hypothesis was not rejected ($P(\chi^2 \geq 2.32)=0.128$).

Table 3-6 presents the 48 h relative survival probabilities, based on the respective model results, for turbine Units 5 and 6. Differences in survival between release locations were turbine specific. An overall likelihood ratio test rejected the null hypothesis of equal survival probabilities for smolt passing through the tip, mid-blade, and hub locations for Unit 5 ($P(\chi^2 \geq 28.85)<0.0001$). The blade tip location had a significantly lower survival ($P<0.05$) than the mid-blade release location while the hub location survival was significantly higher ($P<0.05$) than the mid-blade release location (Table 3-6).

For Unit 6, the hub release location had a higher survival rate (significant at $\alpha=0.10$ but not at 0.05 level) than at the mid-blade release location (Table 3-6). There was no difference ($P>0.05$) between the tip and the mid-blade release locations. For completeness, Appendix D-III provides the results of both the simplified and full models for Unit 6 because the P-value was close to the $\alpha$-level of the test and because the hypothesis was rejected for turbine Unit 5.

## 3.4 Injury

All recaptured fish (total 4,974) from Units 5 (97.6%) and 6 (97.3%) were examined for injury type, extent, and general location; nearly all (99%) of the controls were examined (Table 3-7). Some differences in injuries were observed for the two turbines and the three passage locations (hub, mid-blade, and blade tip). Fish injury observed at Units 5 and 6 are presented separately herein and then compared. Detailed information and photos on all injured fish are presented in Appendix C.

### 3.4.1 Injury Rate

#### 3.4.1.1 Overall Injury Rate

Injury rates differed between the two turbines with Unit 6 fish exhibiting the lower rate (Table 3-7). Overall injury rate of fish passed through Unit 5 was 2.5% (62 of 2,496) and 1.4% (34 of 2,478) for Unit 6 (MGR) fish (Table 3-7); injury rate in Unit 6 is about one-half of that in Unit 5. The rates of fish showing equilibrium loss were identical (1.6%) in both units.

Only 4 (0.2%) of 1,970 control fish exhibited any visible injuries (Table 3-7). Eight (0.4%) of the control fish displayed loss of equilibrium. Adjusted for control injury and loss of equilibrium, Unit 5 fish had an injury rate of 2.3% and loss of equilibrium rate of 1.2%. The respective values for turbine Unit 6 fish are 1.2% and 1.2%.

#### 3.4.1.2 Injury Rate versus Release Location

The injury rate was affected by release location and turbine with the highest injury rate for the blade tip fish in both units. The blade tip fish injury rate was less in Unit 6 (1.9%) than in Unit 5 (3.9%; Table 3-7 and Figure 3-11).

The mid-blade region inflicted a 2.3 and 1.0% injury rate at Units 5 and 6, respectively (Table 3-7). Injury rates were lowest for fish that passed near the hub; only 0.7% of Unit 5 fish displayed any visible injuries, while 1.0% of the Unit 6 fish had injuries.

The incidence of fish displaying loss of equilibrium was similar between the three release locations and ranged from 1.6 to 1.7% at Unit 5 and 1.3 to 1.9% at Unit 6 (Table 3-7). The highest loss of equilibrium was observed for fish passing near the hub at Unit 6. It should be noted that because of a general low incidence of injuries and loss of equilibrium, a small shift in numbers in one way or another can change these percentages.

#### 3.4.1.3 Injury Rate versus Power Level

Data pooled across release locations indicated small differences in injury rates associated with power levels specific to each turbine (Table 3-8). The combined injury rate for fish was similar (2.2 to 2.3%) for power levels 1, 3, and 4 at Unit 5; injury rate was higher (3.1%) at power level 2. At Unit 6 the combined

injury rate was similar (1.5 to 1.8%) at power levels 1, 2, and 4 and least (0.7%) at power level 3.

With respect to the influence of the interaction of release location and power level, the highest injury rates (4.7 and 4.5%) were observed for fish passed near the blade tip of Unit 5 at power levels 2 and 4 (Table 3-8). In contrast, only 0.6 and 0.0% of the hub fish were injured at these power levels. Injury rate was highest (3.3%) at Unit 6 for blade tip fish passed at power level 1; however, injury rate was only 0.9% for blade tip fish passed at power level 3. The mid-blade released fish did not show injuries at power level 1 in Unit 6.

### 3.4.2 Injury Types

Visible injuries were diverse and ranged from severe (decapitation, body severed) to minor (slight hemorrhage in eye, scrapes). Photos of nearly all injured fish and detailed injury characterization are presented in Appendix C and representative examples are displayed in Figures 3-12 through 3-15. Some fish had a single injury (*i.e.*, missing eye, decapitated) while others had multiple injuries (*i.e.*, missing eye and torn operculum, hemorrhaged eye and internal organ(s)).

Overall, eye damage (hemorrhage, missing) or severed body, including decapitation, were the principal injuries observed at Unit 5. Decapitation or severed body was also dominated at Unit 6 (Table 3-7) followed by eye damage and internal hemorrhaging.

#### 3.4.2.1 Injury Type versus Release Location

The injury types differed somewhat for the three release locations within each turbine (Table 3-7). Eye damage (hemorrhage, ruptured, missing) was the dominant injury of blade tip passed fish at Unit 5, while severed body, including decapitation, was the dominant injury of blade tip passed fish at Unit 6. If laceration type injuries are combined (decapitation, severed body, cut, and tears) at Unit 5, then this becomes the dominant injury type.

Among the injured fish, decapitation/severed body and eye damage/hemorrhage were most common for mid-blade released fish in both units (Table 3-7).

Although few hub passed fish were injured, decapitation/severed body and gill hemorrhage dominated at Unit 5 while eye, gill, and internal injuries were most common at Unit 6 (Table 3-7).

#### 3.4.2.2 Injury Type versus Power Level

Injury type versus power level data are presented in Appendix C, Table 2. Decapitation/severed body and eye injuries were the primary injuries observed for all power levels at Unit 5. Laceration type injuries were the primary injury type at all power levels at Unit 6. Eye damage was also common for power level 2.

### 3.4.3 Injury Source

Probable injury source was assigned to 62 and 34 visibly injured fish recaptured from Units 5 and 6, respectively (Tables 3-9 and 3-10 and Appendix C, Tables 1 and 2). The forces attributed to inflicting these injuries were shear, mechanical, pressure, and /or a combination of these forces. Combinations appeared to be due to shear and mechanical forces. No injuries were attributed to cavitation; however, both units were not operated where cavitation would likely occur. Additionally, fish injury characteristics due to cavitation have not been well documented in the literature.

Overall, regardless of power level and release locations, shear and mechanical forces appeared to be the primary injury mechanisms for most fish. Some 35.5 and 38.7% of the injuries observed at Unit 5 were attributed to shear and mechanical forces, respectively (Table 3-9). Another 14.5% appeared to be due to probable pressure related causes. The remaining 11.3% was likely due to a combination of shear and mechanical forces. Shear induced injuries (41.2%) were slightly more prevalent than mechanical (32.4%) at Unit 6 (Table 3-9). Pressure related injuries were observed on 17.6% of the injured fish (primarily internal hemorrhaging) and the remaining 8.8% of the fish appeared to have been injured by a combination of forces.

#### 3.4.3.1 Injury Source versus Release Location

Shear and mechanical mechanisms inflicted the majority of injuries at all three release locations at Unit 5 (Table 3-9 and Figure 3-16). Both mechanisms inflicted injuries at similar rates regardless of release location. The percentage of injuries attributed solely to shear or mechanical forces ranged from 33.3 to 40.0% and 36.1 to 42.9%, respectively.

The forces inflicting injury at Unit 6 differed from that at Unit 5 (Table 3-9 and Figure 3-16). Injuries to blade tip passed fish were due primarily to mechanical forces (50%) while shear forces contributed to the majority of the injuries for fish passed mid-blade (66.7%) and near the hub (57.1%). Although very few (7 of 668) hub passed fish were injured, three (42.9%) of these fish displayed injuries that could have been pressure induced (hemorrhaging of internal organs).

#### 3.4.3.2 Injury Source versus Power Level

Examination of the likely injury source (shear, mechanical, pressure) showed some differences between power levels within turbine Unit 5 (Table 3-10). Some 64% and 21% of the injuries were attributed to shear and mechanical forces, respectively, at power level 1 in Unit 5. At power level 4, mechanically inflicted injuries (50.0%) were most prevalent while shear caused injuries diminished (28.6%). In contrast, at Unit 6 shear inflicted injuries were most common (36 to 50%) at power levels 1, 2, and 4 (Table 3-10). At power level 3, 50% of the injuries were mechanically inflicted. Injuries likely related to pressure were less than those due to shear or mechanically-caused injuries for all power levels at both turbines except at power level 3.

## 4.0 DISCUSSION

The primary objective, that the fish survival in passage through the new MGR Unit 6 at Bonneville Dam is equal to or better than the survival in passage through Unit 5, was fulfilled and the hypothesis was not rejected ($P>0.10$). In fact, generally the fish injury rate was lower and survival rate higher for Unit 6 than for Unit 5. The secondary objectives of the experiment, estimates of passage survival probabilities of fish released at three discrete locations within turbine Units 5 (existing) and 6 (MGR), and ascertain probable causal mechanisms of injury/mortality were also obtained. The test of the effectiveness of gap minimization appeared to be only partially fulfilled. The experiment succeeded in providing absolute survival, safe fish passage, and relative survival estimates within the prespecified precision ($\varepsilon$) level of $\pm\leq 3\%$, 90% of the time. Another hypothesis of practical significance successfully tested in the study was whether fish passage survival is correlated with turbine operating efficiency.

Survival estimates derived in the study are considered valid because many underlying assumptions were met. The following assumptions, primarily related to the tag-recapture process, were fulfilled: handling, tagging, and release procedures do not differentially affect the survival rates of treatment groups; and recapture crews do not differentially retrieve either group of fish. Although insertion of the tag, induction, and tag removal requires fish handling and may result in injury or mortality, these processes had minimal cumulative effects over the 48 h period. Little mortality occurred in any group. All treatment and control groups showed similar post-passage swimming behavior in the holding pools.

The assumption of homogeneity in recapture frequencies of alive and dead and unknown status fish was satisfied to a large extent allowing pooling of replicate releases to increase sample size and hence precision of survival estimates. This test of homogeneity was also deemed necessary because replicate releases were made over a relatively long time period (24 different treatment conditions over 60 days, 16 November 1999 to 29 January 2000) and potential for effects of external variables on survival may have existed. No significant differences ($P>0.10$) were noted between the control replicate releases. Among the 24 different treatment conditions (two turbines x three release locations x four power levels) two were not homogenous. However, on a random chance alone (null hypothesis) one would expect 5% (1.2 tests) of the tests to show probability (P) values to be less than or equal to 0.05. Therefore, there was little evidence to conclude heterogeneity among the replicate releases during the study. Additionally, fish releases on each day were randomized to minimize serial effects, if any. Thus, there is a reasonable assurance that comparisons between turbine locations were not confounded with time or fluctuations in

hydrological conditions.

A potential source of bias due to non-selective retrieval of fish groups was minimized by not assigning any boat recovery crew to recapture a specific group of fish. Whichever crew was available for fish recapture was assigned the task of individual fish retrieval. Recapture crews were trained in fish handling and retrieved the buoyed fish without inflicting additional external damage. Tagging crew bias was eliminated by rotating the personnel scheduled for tagging each day.

One of the objectives of the experiment, evaluation of the effectiveness of hub gap minimization in Unit 6, may not have been fulfilled due to uncertainty of the exact passage route taken by fish released to pass toward the hub region. The fish may have actually passed along the blade and not been exposed to the hub gaps of Unit 5 (lack of recovery of pinched fish bodies which are reflective of gap passage) and the modified hub of Unit 6. This uncertainty in passage route became apparent too late for a corrective action in the midst of the experiment. Additional computer analysis and evaluation of the video imaging may provide more insight into the actual fish passage route for this release condition.

Analysis of neutrally buoyant particle releases through physical turbine models indicated fish released in the lower injection pipes should move through both Units 5 and 6 runners near the blade tip. Modification to the MGR blade tip improved both absolute survival and safe fish passage estimates. These parameters were higher for Unit 6 blade tip passed fish than for Unit 5. The 48 h absolute survival and safe passage estimates for Unit 5 were 0.931 and 0.919 compared to 0.950 and 0.945 for Unit 6. However, these estimates were not statistically significantly ($P>0.05$). Overall, in a side by side comparison for the four power levels tested, blade tip fish survival in the MGR unit was generally higher; ranging from 0.3% (power level 1, below the point of peak operating efficiency) to 3.1% (power level 4, beyond the point of peak efficiency) higher than for Unit 5 blade tip released fish. Across all power levels and release locations, the overall difference was about 1.9% in favor of the MGR unit. The 3.1% difference at power level 4 for blade tip released fish noted herein is nearly of the same magnitude as that observed at Rocky Reach when the gap at the trailing edge near the hub was closed (Normandeau Associates and Skalski 1996).

Incidence of fish injury also supported the premise that minimization of gaps at the MGR blade tip are safer for fish passage. Injury rate was reduced approximately 50% (3.9% for Unit 5 versus 1.9% for Unit 6). The combination of higher survival and lower injury rate, in the MGR unit, suggests that the new MGR unit offers overall advantages to fish passage effectiveness. Minimizing the blade tip gap alone holds promise in improving survival for fish passing that area by perhaps as much as about 3%. This magnitude of improvement, if it occurs for most fish, is deemed substantial considering that the survival is greater than 94% and the maximum possible is 100%.

Although significant ($P>0.05$) differences in overall absolute survival and safe passage estimates were not observed between the two units, there were significant differences in these estimates between the three release locations. In both units, blade tip absolute survival and safe passage estimates were significantly ($P<0.05$) lower than those for fish passed by the mid-blade and/or hub. Juvenile salmon that passed both units away from the blade tip area appeared to experience relatively safer passage regardless of the power level. All but two (0.947 to 0.949) of the 32 absolute and safe passage survival estimates (48 h) for the mid-blade and hub released fish were greater than 0.95. Incidence of injured fish that passed the mid-blade and near hub region was also low (<2.0% for 14 of the 16 test conditions).

Even though the effectiveness of hub gap minimization may not have been completely evaluated as planned, the study uncovered hither to unknown two potential issues which when resolved may result in improvement in overall fish survival and lowered injury rate. First, a comparison of hub and mid-blade survival probabilities indicates that improvement in in-turbine hydraulic geometry can add to enhancement of fish survival. As stated earlier, fish releases designed to pass in the flow near the hub may have actually traversed some distance intermediate between the hub and mid-blade region. Absolute survival probabilities were highest for hub released fish in both turbines (≥0.97). Similarly, the injury rates for hub released fish were lower than those for mid-blade fish. Although the localized hydraulic geometry experienced by the hub released fish is unknown it may be surmised from the observed results that if such conditions can be duplicated at other regions of the turbine environment an overall

improvement in survival may be achievable. Whether this is a practical solution from a hydraulic-engineering or turbine design viewpoint remains to be determined.

The second issue uncovered was entrapment of fish passed through the mid and blade tip regions in the tailwater stop log slots and its potential consequence to the broader question of survival improvement particularly at high flows. About 3.0% of the treatment fish introduced at these sites were entrapped. To put this figure into perspective, 78 of the 3,743 fish (2.1%) introduced into the blade tip and mid-blade regions in both units were recaptured dead and 2.2% were injured. The minimal entrapment of hub passed fish (0.4%) suggest that partial inflation of a small percentage of balloon tags prior to fish exiting the draft tube was a minor contributing factor to entrapment. Initiation of balloon tag inflation was adjusted to minimize the chance of the balloon tag inflating prior to exiting the turbine. If tagging was not the principal contributory factor then a potential exists for entrapment of naturally entrained fish. The longer the entrapment time the greater the likelihood of fish experiencing stress and possible death. Secondly, the fish may be transported into a "back roll" like environment, which could make them vulnerable to potential predation upon eventual exit from the draft tube. These findings suggest a critical examination of the presence of naturally entrained unmarked fish to identify the magnitude of the potential problem.

A contemporaneous hypothesis, of practical operational significance, that fish survival is maximized at best turbine operating efficiency (Bell 1981; Eicher Associates 1987) was not statistically supported at Bonneville. Fish survival was not statistically correlated with the operating efficiencies tested in either turbine. While this result may have been expected for Unit 5 which has a broad, flat efficiency curve (see Figure 1-3) over the range tested herein, the results for Unit 6 also seem to be in conflict with the above stated hypothesis. Although the Unit 6 efficiency curve is more "peaked" than flat, the overall average survival probabilities were essentially flat over the range tested. However, only at power level 3 (towards 1% of higher operating limits) of both units survival was relatively high and less variable (0.96 to 0.97 for Unit 5 and 0.96 to 0.98 for Unit 6) between the three release locations. Survival was more variable (0.92 to 1.02 for Unit 5, 0.94 to 0.98 for Unit 6) at power level 2 (within 1% of operating range). Evidence is emerging from other sites that suggests a strong correlation is not apparent between highest turbine operating efficiency and highest fish survival, particularly for the large sized Kaplan turbines such as those at the Bonneville Dam. A recent study at Lower Granite Dam (Mathur *et al.* 2000) reported the highest survival of chinook salmon occurred at the lowest turbine operating efficiency tested. Turbine intakes at Lower Granite Dam are equipped with extended length screens. Similarly, recent statistical analysis of the available data from several dams on the Columbia River Basin by Skalski and Mathur (2000) shows an absence of a correlation between highest survival and maximum operating efficiency.

The physical, hydraulic, and operating conditions can vary even between two similar type turbines operating similarly and the flow path fish traverse may be different subjecting them to different passage risks. These characteristics may affect the nature of the correlation, if any, between highest turbine operating efficiency and highest fish survival. As an example, the estimated survival probabilities of chinook salmon smolts introduced at the same depths of two adjacent Kaplan turbines (without intake fish guidance screens) at Rocky Reach Dam on the Columbia River, producing identical electrical output, differed (Normandeau Associates and Skalski 1996). In one turbine, the survival (0.973) of fish entrained at 10 ft below the intake ceiling was about 0.06 higher than that (0.913) of fish entrained at 30 ft below the intake ceiling. In an adjacent turbine, the trend was opposite; the survival (0.948) of fish entrained at 30 ft below the intake ceiling was about 0.06 higher than that (0.888) of fish entrained at 10 ft. Both turbines were set virtually at identical power levels. The flow distributional pattern within the turbines is unknown which may affect the travel path fish take. At Wanapum Dam on the Columbia River (Kaplan turbines without intake screens) the highest survival of coho salmon smolts, *O. kisutch*, at two depths was observed at less than the peak turbine operating efficiency (Mathur *et al.* 1999); smoother flows within the turbine at that operational level were given as the cause for higher survival. At Lower Granite Dam (equipped with extended length intake fish guidance screens) the highest survival was observed at the lower end of the turbine operating efficiency; the effects of turbine operating in a cavitation mode were also not evident (Mathur *et al.* 2000). Similarly, an investigation of juvenile American shad, *Alosa sapidissima*, showed highest survival towards the lower operating efficiency of a Kaplan turbine at Hadley Falls, Connecticut River (Mathur *et al.* 1994). Thus, it seems that prior to imposing constraints on

turbine operation it would be prudent to base them on empirically derived survival and turbine operating efficiency data. If a strong correlation between survival and specific turbine operating efficiency can be shown, then restricting turbine operation to a mode that maximizes fish survival, particularly during a peak emigration period, would be prudent. Alternatively, however, if no correlation can be demonstrated then a greater operational flexibility may be warranted. The Bonneville study results do not support the position that turbine operating constraints to a portion of the full operating range of the MGR unit would optimize survival.

The observed fish injury rates magnify the effectiveness of the MGR. The MGR unit inflicted considerably less injury to fish than the conventional unit; overall fish injury rate was reduced by approximately 40% (2.5% for Unit 5 versus 1.4% for Unit 6). Most of the difference occurred for fish passing in the vicinity of the blade tip. The incidence of injury for blade tip passed fish was reduced by 50% (3.9% versus 1.9%). This was expected because of the gap closures in the MGR unit. This same trend was also evident for fish passed near mid-blade; 2.3% for Unit 5 and 1.0% for Unit 6; however, there are no gaps in the mid-blade region to modify that could account for the improved fish passage condition. Other factors, including possibly blade geometry, blade thickness, and flow stream lines may account for the decreased injury at the MGR unit.

The hydraulic conditions within the turbine and discharge boil at both units to which test fish were exposed apparently were not conducive to disorienting passed fish. Loss of equilibrium was uncommon for fish passed through both turbines (1.6%) and the control fish (0.4%) released just upstream of the discharge boil. The paucity of fish displaying loss of equilibrium might minimize the opportunities for predator fish residing in the tailrace.

The minimal incidence of fish injury, 0.7% at Unit 5 and 1.0% for Unit 6, for fish directed to pass near the hub at both turbines indicates that the actual path traversed by these fish need to be ascertained and characterized hydraulically. If possible, these hydraulic conditions could be duplicated throughout the turbine environment to minimize fish injury. Based on the paucity of injuries, especially at Unit 5, most fish may not have passed the desired area near the hub, but likely passed along the blade. If the fish had passed through the hub gaps in Unit 5, the incidences of laceration and pinching type injuries should have been greater. Only 1 of the 681 fish released near the hub of Unit 5 had a pinched off head. None of the fish that passed the MGR hub area incurred a laceration or pinching type wound. Laceration and pinching type wounds have been observed at several other large Kaplan type turbines at Columbia River Basin power stations. Approximately half the injured fish at Rock Island Powerhouse I, suspected of passing near the hub region, displayed laceration and pinching type wounds (Normandeau Associates and Skalski 1998). Similar results were observed at Lower Granite Dam (Normandeau Associates *et al.* 1995). However, this phenomenon was not evident at McNary Dam where fish were directed to pass near the hub. Most hub passed fish at McNary displayed hemorrhage to the head or body or eye damage; few had lacerations. Normandeau Associates *et al.* (1999) surmised that the paucity of laceration/pinching type injuries could have been due to the narrow gap openings at the leading (1 in) and trailing (2 in) edge of the blade. However, only one blade setting was tested.

## 5.0 CONCLUSIONS

The experiment succeeded in establishing that the fish passage through the new Unit 6 (MGR) is equal to or better than the existing Unit 5. Differences in survival were most pronounced at the blade tip and in favor of the MGR. Survival estimates are only reflective of the direct effects of turbine blades, draft tube, and tailrace.

All three metrics of survival, absolute survival of treatment fish estimated relative to tailrace controls, safe passage, based on assuming all injured fish and those exhibiting loss of equilibrium as dead, and survival of hub and blade tip released fish relative to that of mid-blade released fish corroborated the conclusions that the MGR had beneficial effects.

Of the 24 independent absolute survival estimates obtained, 22 (91.7%) were ≥0.94, only 2 (8.3%) were between 0.91 and 0.92. The two lower estimates were both at the blade tip of Unit 5, one each at power

level 2 and 4. The injury rates followed a similar, but an opposing trend, injuries being higher at the blade tip in Unit 5 than at Unit 6.

Overall, the safe passage survival rates for both units were only slightly lower (generally less than 1.5% lower) than the absolute survival rates. The probability of safe passage of mid-blade releases in both units was identical (0.953); blade tip fish had higher safe passage in Unit 6 (0.945) than in Unit 5 (0.919); and "hub" released fish had a better safe passage rate (0.989) in Unit 5 than in Unit 6 (0.969). The lowest safe fish passage rate (0.90) was for Unit 5 blade tip fish released at power level 4. The lowest safe fish passage rate (0.93) at Unit 6 was also for blade tip fish released at power level 4. Highest safe fish passage (0.998) occurred for Unit 5 fish passed near the hub at power levels 2 and 4. The highest safe fish passage (0.986) at Unit 6 also occurred for hub passed fish at power level 3.

Although the effectiveness of minimizing hub gaps could not be fully assessed because fish released to pass near the hub gaps may have actually passed some distance away from the hub, gap minimization is useful in enhancing fish survival. Blade tip gaps were also minimized in MGR Unit 6 and survival there was considerably higher and injury considerably lower than in Unit 5.

The study, a *post priori*, may have produced a desirable outcome for future turbine design. Absolute survival probabilities of "hub" released fish in both turbines exceeded or equaled 0.97 (range 0.97 to 1.0 in Unit 5; all values were 0.98 in Unit 6). It suggests that duplicating the localized hydraulic geometries encountered by these fish elsewhere in the turbine environment could further enhance overall fish survival over a wide range of operating conditions. The engineering feasibility for creating such a favorable geometry in a turbine design needs to be evaluated.

The contemporaneous hypothesis that highest survival is correlated with peak or near operating efficiency was not statistically supported for either turbine, a finding similar to that reported from other similar sized turbines. Qualitatively, point estimates of absolute survival were consistently ≥0.96 at power level 3 (beyond the point of peak operating efficiency) in both Units 5 and 6. Absolute survival probabilities at power level 1 (near the lower end of the 1% operating level at Unit 5 and below the 1% level at Unit 6), in both units at all release locations were comparable to those at power level 3.

Finally, the study indicated about 2.3% of the released fish were entrapped in the tailrace gate slots characterized by high turbulence; most fish were from the mid and blade tip releases. Entrapment of naturally passing fish in high turbulence may cause delay in exiting the turbine draft tube, transport fish into a "back roll" like environment or abrasive areas, and subject the fish to stress and eventual predation. Whether the balloon tag contributed to some of this entrapment is unknown, however, the magnitude of this potential problem and its subsequent solution can be ascertained by sampling naturally entrained fish in the tailrace gate slots.

Although the MGR unit inflicted considerably less injuries than the conventional turbine there may be still some room for additional improvements. Shear and mechanical forces appeared to be responsible for most injuries at both units. Across all release locations and power levels shear and mechanical forces inflicted 36 and 39% (Unit 5) and 41 and 32% (MGR) of the injuries, respectively at the two units. An additional 11 and 9% of the injuries at Unit 5 and the MGR, respectively, were also attributed to a combination of these forces. Minimizing and eliminating gaps appeared to diminish the rate of mechanically inflicted cuts and pinched bodies. Injury attributed to mechanical forces was >50% of the total injuries for blade tip passed fish at the MGR unit. The presence of fish torn in half or decapitated indicates that some severe forces may still be present in the MGR blade tip area or other areas associated with blade tip passage. The presence of mechanical and shear inflicted wound may warrant additional model or field testing to ascertain the source of these injuries and whether additional turbine component modification could further reduce turbine related fish injury.

Based on experience at Bonneville Dam and elsewhere, minimizing gaps at the blade tip may improve survival for those fish passing that area, perhaps by 3% or more.

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## Daily Record of Turbine Operating Conditions and Fish Releases and Tag-Recapture Data

# APPENDIX B

# Downstream Retrieval Plots

# APPENDIX C

## Disk and Directory of Digitally Acquired Photos, Digital Photos of Injured Fish, and Descriptions of Observed Injuries

# Appendix C

# Disk of Digitally Acquired Photos

# APPENDIX D

## Statistical Models and Outputs and Summary of Individual Trial Data

**I - Estimating Absolute Survival for the 24 Release Conditions**

**II - Estimating the Overall Effects of Equilibrium Loss, Injury, and Mortality for the 24 Release Conditions (Safe Fish Passage)**

**III - Estimating Relative Survival**

**IV - Relating Survival to Turbine Operations**

**V - Tests of Homogeneity of Replicate Releases**

**VI - Comparison of Recovery Locations**

**Table Detailed Summary of the Condition after Passage Through Units 5 and 6**

# APPENDIX D-I

# Estimating Absolute Survival for the 24 Release Conditions

# APPENDIX D-II

## Estimating the Overall Effects of Equilibrium Loss, Injury, and Mortality for the 24 Release Conditions (Safe Fish Passage)

# APPENDIX D-III
# Estimating Relative Survival

# APPENDIX D-IV
# Relating Survival to Turbine Operations

# APPENDIX D-V
# Tests of Homogeneity of Replicate Releases

# APPENDIX D-VI
# Comparison of Recovery Locations

# APPENDIX D, TABLE
# Detailed Summary of the Condition after Passage Through Units 5 and 6

# APPENDIX E

# Individual Fish Disposition Data and Associated Condition Codes

**Table 1-1**

**Turbine parameters measured for each turbine on a daily basis during the survival trials at Bonneville Dam, November 1999-January 2000. Data supplied by ACOE.**

| Date | Release Position | Flow Scenario | Replicate | Head (ft) | Wicket Gate Angle (°C) | Blade Angle (°C) | Generation (kw) | Efficiency (%) | Discharge (cfs) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ***Unit 5 (Existing)*** | | | | |
| 11/26/1999 | Tip | 1 | 1 | 55.81 | 43.99 | 15.44 | 25,413 | 0.885 | 6,206 |
| 11/30/1999 | Tip | 1 | 2 | 58.01 | 48.31 | 12.20 | 25,558 | 0.882 | 6,024 |
| 12/11/1999 | Tip | 1 | 3 | 56.53 | 48.31 | 14.18 | 27,122 | 0.886 | 6,531 |
| 1/11/2000 | Tip | 1 | 4 | 55.53 | 47.03 | 13.05 | 24,980 | 0.884 | 6,137 |
| 1/27/2000 | Tip | 1 | 5 | 56.27 | 47.03 | 12.53 | 24,950 | 0.883 | 6,056 |
| 11/24/1999 | Tip | 2 | 1 | 59.17 | 48.28 | 15.47 | 30,229 | 0.886 | 6,953 |
| 12/9/1999 | Tip | 2 | 2 | 58.30 | 48.31 | 16.35 | 30,634 | 0.870 | 7,035 |
| 12/18/1999 | Tip | 2 | 3 | 53.89 | 51.01 | 15.24 | 27,505 | 0.889 | 6,923 |
| 1/12/2000 | Tip | 2 | 4 | 55.37 | 51.04 | 16.19 | 29,527 | 0.890 | 7,225 |
| 1/20/2000 | Tip | 2 | 5 | 56.75 | 51.03 | 15.92 | 30,189 | 0.889 | 7,218 |
| 1/26/2000 | Tip | 2 | 6 | 55.70 | 49.72 | 15.72 | 29,118 | 0.889 | 7,090 |
| 11/22/1999 | Tip | 3 | 1 | 58.93 | 63.11 | 25.81 | 47,127 | 0.889 | 10,847 |
| 12/3/1999 | Tip | 3 | 2 | 58.54 | 65.81 | 24.47 | 45,446 | 0.891 | 10,507 |
| 12/16/1999 | Tip | 3 | 3 | 55.24 | 68.49 | 26.97 | 45,984 | 0.888 | 11,297 |
| 1/7/2000 | Tip | 3 | 4 | 57.42 | 64.42 | 25.90 | 46,279 | 0.888 | 10,946 |
| 1/21/2000 | Tip | 3 | 5 | 56.32 | 64.44 | 24.81 | 43,949 | 0.892 | 10,598 |
| 11/16/1999 | Tip | 4 | 1 | 61.98 | 68.42 | 29.92 | 56,399 | 0.881 | 12,454 |
| 12/2/1999 | Tip | 4 | 2 | 55.07 | 69.78 | 27.50 | 46,766 | 0.887 | 11,546 |
| 12/14/1999 | Tip | 4 | 3 | 57.39 | 69.78 | 28.17 | 50,032 | 0.885 | 11,878 |
| 1/13/2000 | Tip | 4 | 4 | 56.64 | 71.21 | 29.68 | 51,797 | 0.882 | 12,503 |
| 1/22/2000 | Tip | 4 | 5 | 56.53 | 69.82 | 28.81 | 50,199 | 0.885 | 12,104 |
| 1/25/2000 | Tip | 4 | 6 | 56.85 | 69.82 | 28.89 | 50,825 | 0.883 | 12,209 |
| 11/17/1999 | Mid | 1 | 1 | 60.25 | 44.56 | 14.18 | 27,833 | 0.882 | 6,316 |
| 12/1/1999 | Mid | 1 | 2 | 57.05 | 48.31 | 12.27 | 25,049 | 0.883 | 5,996 |
| 12/13/1999 | Mid | 1 | 3 | 55.91 | 48.31 | 13.39 | 25,706 | 0.885 | 6,265 |
| 1/10/2000 | Mid | 1 | 4 | 54.77 | 47.04 | 13.20 | 24,627 | 0.885 | 6,126 |
| 1/19/2000 | Mid | 1 | 5 | 54.32 | 47.03 | 13.51 | 24,831 | 0.886 | 6,221 |
| 11/21/1999 | Mid | 2 | 1 | 60.95 | 47.21 | 16.17 | 31,389 | 0.885 | 7,018 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12/6/1999 | Mid | 2 | 2 | 58.63 | 52.36 | 17.78 | 33,527 | 0.889 | 7,757 |
| 12/22/1999 | Mid | 2 | 3 | 55.27 | 51.02 | 16.53 | 30,001 | 0.891 | 7,346 |
| 1/14/2000 | Mid | 2 | 4 | 54.49 | 51.04 | 16.64 | 29,270 | 0.891 | 7,270 |
| 1/24/2000 | Mid | 2 | 5 | 57.19 | 49.73 | 15.36 | 29,544 | 0.888 | 7,015 |
| 1/29/2000 | Mid | 2 | 6 | 53.51 | 51.04 | 15.25 | 27,229 | 0.889 | 6,903 |
| 11/25/1999 | Mid | 3 | 1 | 59.60 | 64.38 | 26.03 | 48,276 | 0.888 | 10,999 |
| 11/29/1999 | Mid | 3 | 2 | 58.73 | 61.73 | 24.22 | 44,132 | 0.892 | 10,162 |
| 12/20/1999 | Mid | 3 | 3 | 54.53 | 67.14 | 25.90 | 44,086 | 0.889 | 10,966 |
| 1/18/2000 | Mid | 3 | 4 | 54.23 | 65.85 | 24.94 | 42,777 | 0.883 | 10,773 |
| 1/28/2000 | Mid | 3 | 5 | 56.24 | 64.44 | 25.51 | 44,617 | 0.890 | 10,749 |
| 11/20/1999 | Mid | 4 | 1 | 59.14 | 67.38 | 29.56 | 52,662 | 0.883 | 12,179 |
| 12/5/1999 | Mid | 4 | 2 | 56.09 | 69.78 | 29.73 | 50,176 | 0.884 | 12,203 |
| 12/12/1999 | Mid | 4 | 3 | 55.62 | 69.78 | 27.99 | 48,000 | 0.887 | 11,733 |

**Table 1-1**

**Continued.**

| Date | Release Position | Flow Scenario | Replicate | Head (ft) | Wicket Gate Angle (°C) | Blade Angle (°C) | Generation (kw) | Efficiency (%) | Discharge (cfs) |
|---|---|---|---|---|---|---|---|---|---|
| 1/15/2000 | Mid | 4 | 4 | 54.82 | 71.22 | 28.86 | 48,748 | 0.884 | 12,130 |
| 1/23/2000 | Mid | 4 | 5 | 57.08 | 68.52 | 28.46 | 50,112 | 0.886 | 11,955 |
| 11/28/1999 | Hub | 1 | 1 | 56.65 | 45.34 | 12.11 | 24,146 | 0.883 | 5,825 |
| 12/7/1999 | Hub | 1 | 2 | 59.22 | 48.31 | 14.11 | 28,313 | 0.885 | 6,514 |
| 12/15/1999 | Hub | 1 | 3 | 55.28 | 48.31 | 12.82 | 24,888 | 0.886 | 6,132 |
| 1/5/2000 | Hub | 1 | 4 | 56.15 | 49.73 | 14.26 | 27,349 | 0.887 | 6,622 |
| 11/27/1999 | Hub | 2 | 1 | 53.11 | 49.35 | 16.21 | 26,679 | 0.890 | 6,806 |
| 12/10/1999 | Hub | 2 | 2 | 57.76 | 51.04 | 16.12 | 30,758 | 0.889 | 7,228 |
| 12/21/1999 | Hub | 2 | 3 | 54.42 | 51.00 | 16.42 | 29,098 | 0.891 | 7,237 |
| 1/17/2000 | Hub | 2 | 4 | 54.77 | 51.04 | 15.70 | 28,568 | 0.890 | 7,067 |
| 11/18/1999 | Hub | 3 | 1 | 60.20 | 63.02 | 26.12 | 48,422 | 0.889 | 10,911 |
| 12/8/1999 | Hub | 3 | 2 | 57.91 | 65.83 | 26.40 | 47,491 | 0.886 | 11,162 |
| 12/19/1999 | Hub | 3 | 3 | 53.01 | 67.14 | 25.96 | 42,575 | 0.888 | 10,910 |
| 1/6/2000 | Hub | 3 | 4 | 54.03 | 64.42 | 25.00 | 41,932 | 0.891 | 10,504 |
| 11/23/1999 | Hub | 4 | 1 | 59.17 | 68.46 | 29.71 | 53,308 | 0.883 | 12,311 |
| 12/4/1999 | Hub | 4 | 2 | 60.08 | 68.48 | 28.45 | 53,022 | 0.884 | 12,040 |
| 12/17/1999 | Hub | 4 | 3 | 55.30 | 71.20 | 29.10 | 49,775 | 0.884 | 12,278 |
| 1/8/2000 | Hub | 4 | 4 | 55.65 | 69.82 | 28.39 | 48,938 | 0.885 | 11,982 |
| | | | | | ***Unit 6 (MGR)*** | | | | |
| 11/26/1999 | Tip | 1 | 1 | 55.70 | 42.25 | 16.09 | 25,238 | 0.876 | 6,237 |
| 11/30/1999 | Tip | 1 | 2 | 57.78 | 41.02 | 16.15 | 25,752 | 0.873 | 6,156 |
| 12/11/1999 | Tip | 1 | 3 | 57.07 | 42.34 | 16.11 | 26,340 | 0.884 | 6,294 |
| 1/11/2000 | Tip | 1 | 4 | 56.17 | 42.35 | 16.06 | 25,878 | 0.882 | 6,299 |
| 1/27/2000 | Tip | 1 | 5 | 56.76 | 41.01 | 16.07 | 25,256 | 0.874 | 6,148 |
| 11/24/1999 | Tip | 2 | 1 | 59.13 | 45.01 | 16.13 | 30,106 | 0.917 | 6,696 |
| 12/9/1999 | Tip | 2 | 2 | 59.34 | 46.38 | 16.13 | 30,962 | 0.924 | 6,810 |
| 12/18/1999 | Tip | 2 | 3 | 53.80 | 46.43 | 16.15 | 26,845 | 0.907 | 6,633 |
| 1/12/2000 | Tip | 2 | 4 | 55.46 | 49.10 | 16.07 | 29,752 | 0.927 | 6,981 |
| 1/20/2000 | Tip | 2 | 5 | 55.74 | 49.04 | 16.06 | 30,133 | 0.928 | 7,029 |
| 1/26/2000 | Tip | 2 | 6 | 54.79 | 46.36 | 18.94 | 28,630 | 0.923 | 6,826 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 11/22/1999 | Tip | 3 | 1 | 58.98 | 63.93 | 24.19 | 47,166 | 0.924 | 10,437 |
| 12/3/1999 | Tip | 3 | 2 | 58.87 | 63.90 | 24.25 | 47,266 | 0.924 | 10,479 |
| 12/16/1999 | Tip | 3 | 3 | 56.92 | 66.63 | 24.38 | 46,345 | 0.922 | 10,649 |
| 1/7/2000 | Tip | 3 | 4 | 57.77 | 63.85 | 24.84 | 46,959 | 0.922 | 10,631 |
| 1/21/2000 | Tip | 3 | 5 | 55.30 | 65.34 | 22.98 | 43,027 | 0.925 | 10,138 |
| 11/16/1999 | Tip | 4 | 1 | 61.93 | 67.91 | 28.40 | 57,040 | 0.910 | 12,205 |
| 12/2/1999 | Tip | 4 | 2 | 54.92 | 69.29 | 26.73 | 47,054 | 0.918 | 11,255 |
| 12/14/1999 | Tip | 4 | 3 | 57.26 | 69.27 | 27.95 | 51,308 | 0.912 | 11,849 |
| 1/13/2000 | Tip | 4 | 4 | 57.50 | 69.32 | 27.86 | 51,930 | 0.910 | 11,968 |
| 1/22/2000 | Tip | 4 | 5 | 56.11 | 68.05 | 27.14 | 49,158 | 0.915 | 11,547 |
| 1/25/2000 | Tip | 4 | 6 | 56.77 | 67.98 | 27.84 | 50,600 | 0.913 | 11,773 |
| 11/17/1999 | Mid | 1 | 1 | 60.65 | 40.94 | 16.15 | 27,773 | 0.884 | 6,247 |
| 12/1/1999 | Mid | 1 | 2 | 56.84 | 40.99 | 16.14 | 24,973 | 0.872 | 6,076 |
| 12/13/1999 | Mid | 1 | 3 | 55.64 | 42.32 | 16.11 | 24,948 | 0.875 | 6,180 |

**Table 1-1**

**Continued.**

| Date | Release Position | Flow Scenario | Replicate | Head (ft) | Wicket Gate Angle (°C) | Blade Angle (°C) | Generation (kw) | Efficiency (%) | Discharge (cfs) |
|---|---|---|---|---|---|---|---|---|---|
| 1/10/2000 | Mid | 1 | 4 | 54.81 | 42.37 | 16.15 | 24,741 | 0.875 | 6,221 |
| 1/19/2000 | Mid | 1 | 5 | 56.91 | 42.37 | 16.06 | 26,689 | 0.888 | 6,363 |
| 11/21/1999 | Mid | 2 | 1 | 61.39 | 45.00 | 16.18 | 31,689 | 0.922 | 6,751 |
| 12/6/1999 | Mid | 2 | 2 | 57.65 | 47.73 | 16.12 | 30,612 | 0.926 | 6,915 |
| 12/22/1999 | Mid | 2 | 3 | 55.40 | 49.09 | 16.47 | 29,873 | 0.927 | 7,015 |
| 1/14/2000 | Mid | 2 | 4 | 54.74 | 49.12 | 16.07 | 29,177 | 0.926 | 6,941 |
| 1/24/2000 | Mid | 2 | 5 | 58.03 | 46.42 | 16.04 | 30,471 | 0.922 | 6,868 |
| 1/29/2000 | Mid | 2 | 6 | 54.08 | 47.76 | 16.10 | 27,739 | 0.915 | 6,760 |
| 11/25/1999 | Mid | 3 | 1 | 58.94 | 62.54 | 24.67 | 47,377 | 0.925 | 10,480 |
| 11/29/1999 | Mid | 3 | 2 | 58.67 | 62.56 | 22.84 | 44,341 | 0.927 | 9,831 |
| 12/20/1999 | Mid | 3 | 3 | 54.19 | 66.63 | 24.70 | 43,792 | 0.920 | 10,593 |
| 1/18/2000 | Mid | 3 | 4 | 54.58 | 65.31 | 23.45 | 42,688 | 0.912 | 10,341 |
| 1/28/2000 | Mid | 3 | 5 | 54.41 | 63.87 | 24.70 | 43,152 | 0.923 | 10,371 |
| 11/20/1999 | Mid | 4 | 1 | 59.33 | 66.51 | 28.31 | 52,913 | 0.914 | 11,769 |
| 12/5/1999 | Mid | 4 | 2 | 56.08 | 67.95 | 27.61 | 48,800 | 0.915 | 11,468 |
| 12/12/1999 | Mid | 4 | 3 | 55.67 | 67.98 | 27.19 | 47,980 | 0.914 | 11,371 |
| 1/15/2000 | Mid | 4 | 4 | 54.72 | 69.32 | 27.70 | 48,229 | 0.913 | 11,642 |
| 1/23/2000 | Mid | 4 | 5 | 57.97 | 67.98 | 26.86 | 51,172 | 0.915 | 11,634 |
| 11/28/1999 | Hub | 1 | 1 | 56.71 | 40.95 | 16.11 | 24,933 | 0.870 | 6,094 |
| 12/7/1999 | Hub | 1 | 2 | 58.73 | 41.01 | 16.12 | 26,426 | 0.875 | 6,201 |
| 12/15/1999 | Hub | 1 | 3 | 54.57 | 42.33 | 16.15 | 24,696 | 0.877 | 6,223 |
| 1/5/2000 | Hub | 1 | 4 | 55.91 | 43.72 | 16.09 | 26,728 | 0.892 | 6,463 |
| 11/27/1999 | Hub | 2 | 1 | 53.42 | 47.75 | 16.16 | 26,828 | 0.909 | 6,663 |
| 12/10/1999 | Hub | 2 | 2 | 57.56 | 46.39 | 16.15 | 29,669 | 0.921 | 6,749 |
| 12/21/1999 | Hub | 2 | 3 | 54.51 | 50.08 | 16.14 | 29,594 | 0.928 | 7,055 |
| 1/17/2000 | Hub | 2 | 4 | 54.18 | 49.14 | 16.07 | 28,616 | 0.922 | 6,913 |
| 11/18/1999 | Hub | 3 | 1 | 60.62 | 62.59 | 24.64 | 48,823 | 0.925 | 10,499 |
| 12/8/1999 | Hub | 3 | 2 | 58.28 | 65.29 | 24.68 | 47,576 | 0.922 | 10,677 |
| 12/19/1999 | Hub | 3 | 3 | 52.97 | 66.63 | 24.62 | 42,120 | 0.921 | 10,411 |
| 1/6/2000 | Hub | 3 | 4 | 54.78 | 63.85 | 24.01 | 42,831 | 0.923 | 10,222 |
| 11/23/1999 | Hub | 4 | 1 | 59.36 | 67.93 | 28.22 | 53,538 | 0.913 | 11,913 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12/4/1999 | Hub | 4 | 2 | 60.55 | 67.93 | 27.06 | 53,313 | 0.918 | 11,566 |
| 12/17/1999 | Hub | 4 | 3 | 54.74 | 69.31 | 27.77 | 48,466 | 0.913 | 11,695 |
| 1/8/2000 | Hub | 4 | 4 | 55.48 | 69.24 | 27.79 | 49,274 | 0.912 | 11,743 |

**Table 1-2**

**Gaps sizes at the hub and blade tip for turbine Unit 5 (existing) at Bonneville Dam, November 1999-January 2000. Gaps eliminated at Unit 6 (MGR). Data supplied by ACOE.**

| | Flat (as measured) | Mid (as measured) | Steep (as measured) | Condition 1 | Condition 2 | Condition 3 | Condition 4 |
|---|---|---|---|---|---|---|---|
| ***Blade Angle (°):*** | ***5.50*** | ***18.93*** | ***33.70*** | ***13.40*** | ***16.10*** | ***25.60*** | ***28.90*** |
| **Distance from Leading Edge (inch)** | **Unit 5, Blade Tip Gap** | | | | | | |
| 0 | 0.7500 | 2.38 | 10.25 | 1.71 | 2.03 | 5.93 | 7.69 |
| 6 | 0.6875 | 1.88 | 7.50 | 1.39 | 1.62 | 4.41 | 5.67 |
| 12 | 0.5000 | 1.63 | 5.50 | 1.16 | 1.39 | 3.37 | 4.24 |
| 18 | 0.3750 | 1.25 | 4.00 | 0.89 | 1.07 | 2.49 | 3.11 |
| 24 | 0.3125 | 1.00 | 2.75 | 0.72 | 0.86 | 1.79 | 2.18 |
| 30 | 0.3125 | 0.75 | 1.88 | 0.57 | 0.66 | 1.26 | 1.51 |
| 36 | 0.3125 | 0.63 | 1.44 | 0.50 | 0.56 | 0.99 | 1.17 |
| 42 | 0.3125 | 0.63 | 1.00 | 0.50 | 0.56 | 0.79 | 0.88 |
| 48 | 0.3125 | 0.38 | 0.63 | 0.35 | 0.36 | 0.49 | 0.54 |
| 54 | 0.3125 | 0.38 | 0.56 | 0.35 | 0.36 | 0.46 | 0.50 |
| 60 | 0.3125 | 0.38 | 0.50 | 0.35 | 0.36 | 0.43 | 0.46 |
| 102 | 0.3750 | 0.38 | 0.50 | 0.38 | 0.38 | 0.43 | 0.46 |
| 108 | 0.5000 | 0.38 | 0.63 | 0.43 | 0.40 | 0.49 | 0.54 |
| 114 | 0.5000 | 0.44 | 1.13 | 0.46 | 0.45 | 0.75 | 0.90 |
| 120 | 0.5000 | 0.56 | 1.63 | 0.54 | 0.55 | 1.04 | 1.28 |
| 126 | 0.6250 | 0.63 | 2.56 | 0.63 | 0.63 | 1.50 | 1.93 |
| 132 | 0.7500 | 0.88 | 3.50 | 0.85 | 0.85 | 2.06 | 2.65 |
| 138 | 0.7500 | 1.25 | 4.81 | 1.14 | 1.14 | 2.86 | 3.65 |
| 144 | 0.7500 | 1.44 | 5.81 | 1.29 | 1.29 | 3.41 | 4.39 |
| 150 | 0.7500 | 1.69 | 7.13 | 1.49 | 1.49 | 4.14 | 5.36 |
| 156 | 0.8750 | 2.25 | 8.25 | 1.96 | 1.96 | 4.96 | 6.30 |
| 162 | 0.8750 | 2.50 | 9.75 | 2.16 | 2.16 | 5.77 | 7.39 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 168 | 0.8750 | 2.88 | 11.00 | 2.45 | 2.45 | 6.54 | 8.36 |

**Table 1-2**

**Continued.**

| | Flat (as measured) | Mid (as measured) | Steep (as measured) | Condition 1 | Condition 2 | Condition 3 | Condition 4 |
|---|---|---|---|---|---|---|---|
| ***Blade Angle (°):*** | ***5.50*** | ***18.93*** | ***33.70*** | ***13.40*** | ***16.10*** | ***25.60*** | ***28.90*** |
| **Distance from Leading Edge (inch)** | | | **Unit 5, Hub Gap** | | | | |
| 0 | 11.5625 | 8.3750 | 3.1250 | 9.69 | 9.05 | 6.00 | 4.83 |
| 4 | 9.2500 | 6.7500 | 2.1875 | 7.78 | 7.28 | 4.69 | 3.67 |
| 8 | 6.7500 | 4.9375 | 1.3125 | 5.68 | 5.32 | 3.30 | 2.49 |
| 12 | 4.5000 | 3.3125 | 0.6250 | 3.80 | 3.56 | 2.10 | 1.50 |
| 16 | 2.7500 | 2.2500 | 0.4375 | 2.46 | 2.36 | 1.43 | 1.03 |
| 20 | 1.5000 | 1.5000 | 0.4375 | 1.50 | 1.50 | 1.02 | 0.78 |
| 24 | 0.8750 | 1.0000 | 0.5000 | 0.95 | 0.97 | 0.77 | 0.66 |
| 27 | 0.7500 | 0.7500 | 0.7500 | 0.75 | 0.75 | 0.75 | 0.75 |
| 31 | 1.7500 | 1.7500 | 1.7500 | 1.75 | 1.75 | 1.75 | 1.75 |
| **Distance from Trailing Edge (inch)** | | | **Unit 5, Hub Gap** | | | | |
| 0 | 6.5000 | 4.0625 | 0.3125 | 5.07 | 4.58 | 2.37 | 1.53 |
| 4 | 6.0000 | 3.7500 | 0.5625 | 4.68 | 4.22 | 2.31 | 1.60 |
| 8 | 5.5000 | 3.3125 | 0.6250 | 4.21 | 3.77 | 2.10 | 1.50 |
| 12 | 4.3750 | 2.6875 | 0.5000 | 3.38 | 3.04 | 1.70 | 1.21 |
| 16 | 3.3750 | 2.3125 | 0.5000 | 2.75 | 2.54 | 1.49 | 1.09 |
| 20 | 2.4375 | 1.5000 | 0.5000 | 1.89 | 1.70 | 1.05 | 0.83 |
| 24 | 1.7500 | 13.7500 | 0.5000 | 1.53 | 1.45 | 0.98 | 0.78 |
| 28 | 1.2500 | 0.9375 | 0.4375 | 1.07 | 1.00 | 0.71 | 0.60 |
| 30 | 1.0000 | 0.8750 | 0.4375 | 0.93 | 0.90 | 0.68 | 0.58 |

**Table 2-1**

**Proposed random testing sequence and sample size distribution of juvenile salmon released via mid-blade, hub, and blade tip of turbine Units 5 (existing) and 6 (MGR) (80 fish split between both turbines at one of four different operating levels) at Bonneville Dam, November 1999-January 2000.**

| | Passage Route and MW/Flow* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Blade Hub | | | | Blade Tip | | | | Mid-blade | | | | | |
| Day | 1* | 2* | 3* | 4* | 1* | 2* | 3* | 4* | 1* | 2* | 3* | 4* | Control | TOTAL |
| 1 | | | | | | | | 80 | | | | | 40 | 120 |
| 2 | | | | | | | | | 80 | | | | 40 | 120 |
| 3 | | | 80 | | | | | | | | | | 40 | 120 |
| 4 | | | | | | | | | | | | 80 | 40 | 120 |
| 5 | | | | | | | | | | 80 | | | 40 | 120 |
| 6 | | | | | | | 80 | | | | | | 40 | 120 |
| 7 | | | | 80 | | | | | | | | | 40 | 120 |
| 8 | | | | | | 80 | | | | | | | 40 | 120 |
| 9 | | | | | | | | | | | 80 | | 40 | 120 |
| 10 | | | | | 80 | | | | | | | | 40 | 120 |
| 11 | | 80 | | | | | | | | | | | 40 | 120 |
| 12 | 80 | | | | | | | | | | | | 40 | 120 |
| *Subtotal* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *480* | ***1,440*** |
| 13 | | | | | | | | | | | 80 | | 40 | 120 |
| 14 | | | | | 80 | | | | | | | | 40 | 120 |
| 15 | | | | | | | | | 80 | | | | 40 | 120 |
| 16 | | | | | | | | 80 | | | | | 40 | 120 |
| 17 | | | | | | | 80 | | | | | | 40 | 120 |
| 18 | | | | 80 | | | | | | | | | 40 | 120 |
| 19 | | | | | | | | | | | | 80 | 40 | 120 |
| 20 | | | | | | | | | | 80 | | | 40 | 120 |
| 21 | 80 | | | | | | | | | | | | 40 | 120 |
| 22 | | | 80 | | | | | | | | | | 40 | 120 |
| 23 | | | | | | 80 | | | | | | | 40 | 120 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | | 80 | | | | | | | | | | | 40 | 120 |
| *Subtotal* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *480* | ***1,440*** |
| 25 | | | | | 80 | | | | | | | | 40 | 120 |
| 26 | | | | | | | | | | | | 80 | 40 | 120 |
| 27 | | | | | | | | | 80 | | | | 40 | 120 |
| 28 | | | | | | | | 80 | | | | | 40 | 120 |
| 29 | 80 | | | | | | | | | | | | 40 | 120 |
| 30 | | | | | | | 80 | | | | | | 40 | 120 |
| 31 | | | | 80 | | | | | | | | | 40 | 120 |

**Table 2-1**

**Continued.**

| | Passage Route and MW/Flow* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Blade Hub | | | | Blade Tip | | | | Mid-blade | | | | | |
| **Day** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **Control** | **TOTAL** |
| 32 | | | | | | 80 | | | | | | | 40 | 120 |
| 33 | | | 80 | | | | | | | | | | 40 | 120 |
| 34 | | | | | | | | | | | 80 | | 40 | 120 |
| 35 | | 80 | | | | | | | | | | | 40 | 120 |
| 36 | | | | | | | | | | 80 | | | 40 | 120 |
| *Subtotal* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *480* | ***1,440*** |
| 37 | 80 | | | | | | | | | | | | 40 | 120 |
| 38 | | | 80 | | | | | | | | | | 40 | 120 |
| 39 | | | | | | | 80 | | | | | | 40 | 120 |
| 40 | | | | | | 80 | | | | | | | 40 | 120 |
| 41 | | | | | | | | | 80 | | | | 40 | 120 |
| 42 | | | | | 80 | | | | | | | | 40 | 120 |
| 43 | | | | | | | | | | 80 | | | 40 | 120 |
| 44 | | | | 80 | | | | | | | | | 40 | 120 |
| 45 | | | | | | | | 80 | | | | | 40 | 120 |
| 46 | | | | | | | | | | | | 80 | 40 | 120 |
| 47 | | 80 | | | | | | | | | | | 40 | 120 |
| 48 | | | | | | | | | | | 80 | | 40 | 120 |
| *Subtotal* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *480* | ***1,440*** |
| 49 | | | | | 80 | | | | | | | | 40 | 120 |
| 50 | | 80 | | | | | | | | | | | 40 | 120 |
| 51 | | | | | | | | | 80 | | | | 40 | 120 |
| 52 | 80 | | | | | | | | | | | | 40 | 120 |
| 53 | | | | | | 80 | | | | | | | 40 | 120 |
| 54 | | | | | | | | | | | 80 | | 40 | 120 |
| 55 | | | | | | | | | | | | 80 | 40 | 120 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | | | | | | | 80 | | | | | | 40 | 120 |
| 57 | | | 80 | | | | | | | | | | 40 | 120 |
| 58 | | | | | | | | | | 80 | | | 40 | 120 |
| 59 | | | | | | | | 80 | | | | | 40 | 120 |
| 60 | | | | 80 | | | | | | | | | 40 | 120 |
| | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *80* | *480* | ***1,440*** |
| ***TOTAL*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***400*** | ***2,400*** | ***7,200*** |

* Four separate MW/flow operating conditions to be tested.

**Table 2-2**

**Actual random testing sequence and sample size distribution of actual number of juvenile salmon released via mid-blade, hub, and blade tip of turbine Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000.**

| | Passage Route and MW/Flow* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Blade Hub | | | | Blade Tip | | | | Mid-blade | | | | | |
| **Day** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **Control** | **TOTAL** |
| 16 Nov | | | | | | | | 60 | | | | | 20 | 80 |
| 17 Nov | | | | | | | | | 80 | | | | 40 | 120 |
| 18 Nov | | | 80 | | | | | | | | | | 40 | 120 |
| 20 Nov | | | | | | | | | | | | 81 | 40 | 121 |
| 21 Nov | | | | | | | | | | 83 | | | 40 | 123 |
| 22 Nov | | | | | | | 83 | | | | | | 40 | 123 |
| 23 Nov | | | | 80 | | | | | | | | | 40 | 120 |
| 24 Nov | | | | | | 70 | | | | | | | 40 | 110 |
| 25 Nov | | | | | | | | | | | 80 | | 40 | 120 |
| 26 Nov | | | | | 80 | | | | | | | | 40 | 120 |
| 27 Nov | | 80 | | | | | | | | | | | 40 | 120 |
| 28 Nov | 81 | | | | | | | | | | | | 40 | 121 |
| *Subtotal* | *81* | *80* | *80* | *80* | *80* | *70* | *83* | *60* | *80* | *83* | *80* | *81* | *460* | ***1,398*** |
| 29 Nov | | | | | | | | | | | 80 | | 40 | 120 |
| 30 Nov | | | | | 91 | | | | | | | | 40 | 131 |
| 1 Dec | | | | | | | | | 80 | | | | 40 | 120 |
| 2 Dec | | | | | | | | 102 | | | | | 44 | 146 |
| 3 Dec | | | | | | | 83 | | | | | | 40 | 123 |
| 4 Dec | | | | 80 | | | | | | | | | 40 | 120 |
| 5 Dec | | | | | | | | | | | | 82 | 40 | 122 |
| 6 Dec | | | | | | | | | | 84 | | | 40 | 124 |
| 7 Dec | 82 | | | | | | | | | | | | 40 | 122 |
| 8 Dec | | | 80 | | | | | | | | | | 40 | 120 |
| 9 Dec | | | | | | 96 | | | | | | | 40 | 136 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 Dec | | 80 | | | | | | | | | | | 40 | 120 |
| *Subtotal* | *82* | *80* | *80* | *80* | *91* | *96* | *83* | *102* | *80* | *84* | *80* | *82* | *484* | ***1,504*** |
| 11 Dec | | | | | 90 | | | | | | | | 30 | 120 |
| 12 Dec | | | | | | | | | | | | 91 | 30 | 121 |
| 13 Dec | | | | | | | | | 90 | | | | 30 | 120 |
| 14 Dec | | | | | | | | 92 | | | | | 30 | 122 |
| 15 Dec | 92 | | | | | | | | | | | | 30 | 122 |
| 16 Dec | | | | | | | 95 | | | | | | 30 | 125 |
| 17 Dec | | | | 91 | | | | | | | | | 30 | 121 |

**Table 2-2**

**Continued.**

| | Passage Route and MW/Flow* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Blade Hub | | | | Blade Tip | | | | Mid-blade | | | | | |
| **Day** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **1*** | **2*** | **3*** | **4*** | **Control** | **TOTAL** |
| 18 Dec | | | | | | 93 | | | | | | | 30 | 123 |
| 19 Dec | | | 90 | | | | | | | | | | 30 | 120 |
| 20 Dec | | | | | | | | | | | 90 | | 30 | 120 |
| 21 Dec | | 90 | | | | | | | | | | | 30 | 120 |
| 22 Dec | | | | | | | | | | 93 | | | 30 | 123 |
| *Subtotal* | *92* | *90* | *90* | *91* | *90* | *93* | *95* | *92* | *90* | *93* | *90* | *91* | *360* | ***1,457*** |
| 5 Jan | 91 | | | | | | | | | | | | 30 | 121 |
| 6 Jan | | | 90 | | | | | | | | | | 30 | 120 |
| 7 Jan | | | | | | | 98 | | | | | | 30 | 128 |
| 8 Jan | | | | 90 | | | | | | | | | 30 | 120 |
| 10 Jan | | | | | | | | | 92 | | | | 25 | 117 |
| 11 Jan | | | | | 94 | | | | | | | | 30 | 124 |
| 12 Jan | | | | | | 95 | | | | | | | 30 | 125 |
| 13 Jan | | | | | | | | 96 | | | | | 30 | 126 |
| 14 Jan | | | | | | | | | | 93 | | | 30 | 123 |
| 15 Jan | | | | | | | | | | | | 91 | 30 | 121 |
| 17 Jan | | 90 | | | | | | | | | | | 30 | 120 |
| 18 Jan | | | | | | | | | | | 90 | | 30 | 120 |
| *Subtotal* | *91* | *90* | *90* | *90* | *94* | *95* | *98* | *96* | *92* | *93* | *90* | *91* | *355* | ***1,465*** |
| 19 Jan | | | | | | | | | 95 | | | | 30 | 125 |
| 20 Jan | | | | | 94 | | | | | | | | 30 | 124 |
| 21 Jan | | | | | | | 96 | | | | | | 30 | 126 |
| 22 Jan | | | | | | | | 92 | | | | | 30 | 122 |
| 23 Jan | | | | | | | | | | | | 93 | 30 | 123 |
| 24 Jan | | | | | | | | | | | 92 | | 30 | 122 |
| 25 Jan | | | | | | | | 95 | | | | | 30 | 125 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 Jan | | | | | | | 90 | | | | | | 30 | 120 |
| 27 Jan | | | | | | 94 | | | | | | | 30 | 124 |
| 28 Jan | | | | | | | | | | | 92 | | 30 | 122 |
| 29 Jan | | | | | | | | | | 95 | | | 30 | 125 |
| | *0* | *0* | *0* | *0* | *94* | *94* | *186* | *187* | *95* | *95* | *184* | *93* | *330* | ***1,358*** |
| ***TOTAL*** | ***346*** | ***340*** | ***340*** | ***341*** | ***449*** | ***448*** | ***545*** | ***537*** | ***437*** | ***448*** | ***524*** | ***438*** | ***1,989*** | ***7,182*** |

* Four separate MW/flow operating conditions tested.

**Table 2-3**

**Required sample sizes (R) if control survival (S) is 0.99, 0.98, or 0.95, recapture rate ($\hat{R}$) is 0.98 or 0.95, and expected survival probability ($\tau$) of treatment fish passed is 0.95, 0.97, and 0.99 to achieve a precision level ($\varepsilon$) of ±0.03, 90% of the time.**

| | Expected Survival ($\tau$) | | |
|---|---|---|---|
| **Control Survival (S)** | **0.95** | **0.97** | **0.99** |
| | ***Recapture Rate=0.98*** | | |
| 0.99 | 314 | 264 | 212 |
| 0.98 | 372 | 324 | 274 |
| 0.95 | 556 | 513 | 469 |
| | ***Recapture Rate=0.95*** | | |
| 0.99 | 495 | 451 | 405 |
| 0.98 | 556 | 513 | 469 |
| 0.95 | 745 | 708 | 670 |

**Table 2-3**

**Required sample sizes (R) if control survival (S) is 0.99, 0.98, or 0.95, recapture rate ($\hat{R}$) is 0.98 or 0.95, and expected survival probability ($\tau$) of treatment fish passed is 0.95, 0.97, and 0.99 to achieve a precision level ($\varepsilon$) of ±0.03, 90% of the time.**

| | Expected Survival ($\tau$) | | |
|---|---|---|---|
| **Control Survival (S)** | **0.95** | **0.97** | **0.99** |
| | ***Recapture Rate=0.98*** | | |
| 0.99 | 314 | 264 | 212 |
| 0.98 | 372 | 324 | 274 |
| 0.95 | 556 | 513 | 469 |
| | ***Recapture Rate=0.95*** | | |
| 0.99 | 495 | 451 | 405 |
| 0.98 | 556 | 513 | 469 |
| 0.95 | 745 | 708 | 670 |

**Table 2-4**

**Observed recapture and survival rates of juvenile salmonids passed through Kaplan type turbines at hydro dams on the Columbia and Snake Rivers**
**All estimates based on balloon tag-recapture technique and portray only direct effects of passage at given operating conditions and entrainment depth.**

| Station | Species | Average Size (mm) | Sample Size | | Recapture Rate (%) | | Control Survival | Estimated Survival Percent | Precision (ε)[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Treatment | Control | Treatment | Control | | | |
| *Rocky Reach* | | | | | | | | | |
| 1993 Unit 3 (10 ft, 50-100 MW) | Chinook salmon | 162 | 350 | 350 | 95 | 99 | 98 | 93.0 | **0.026** |
| Unit 3 (30 ft, 50-100 MW) | Chinook salmon | 162 | 250 | 250 | 96 | 99 | 98 | 94.7 | **0.025** |
| Unit 8 (10 ft, 130 MW) | Chinook salmon | 113 | 265 | 265 | 86 | 89 | 89 | 96.1 | 0.043 |
| 1996 Unit 5 (10 ft, 60 MW) | Chinook salmon | 184 | 75 | 95 | 99 | 100 | 100 | 97.3 | **0.031** |
| Unit 5 (10 ft, 80 MW) | Chinook salmon | 184 | 75 | 115 | 99 | 99 | 98 | 98.2 | **0.035** |
| Unit 5 (10 ft, 100 MW) | Chinook salmon | 184 | 85 | 90 | 98 | 98 | 94 | 96.4 | 0.043 |
| Unit 5 (30 ft, 60 MW) | Chinook salmon | 184 | 71 | 65 | 96 | 95 | 94 | 91.3 | 0.066 |
| Unit 5 (30 ft, 80 MW) | Chinook salmon | 184 | 85 | 80 | 96 | 98 | 96 | 98.7 | 0.049 |
| Unit 5 (30 ft, 100 MW) | Chinook salmon | 184 | 85 | 75 | 96 | 100 | 100 | 94.1 | 0.043 |
| Unit 6 (10 ft, 60 MW)[1] | Chinook salmon | 184 | 125 | 95 | 96 | 100 | 100 | 88.8 | 0.046 |
| Unit 6 (10 ft, 80 MW) | Chinook salmon | 184 | 165 | 115 | 99 | 99 | 98 | 97.2 | **0.028** |
| Unit 6 (10 ft, 100 MW) | Chinook salmon | 184 | 130 | 90 | 97 | 98 | 94 | 96.5 | **0.036** |
| Unit 6 (30 ft, 60 MW) | Chinook salmon | 184 | 75 | 65 | 96 | 95 | 94 | 94.8 | 0.054 |
| Unit 6 (30 ft, 80 MW) | Chinook salmon | 184 | 85 | 80 | 99 | 98 | 96 | 96.6 | 0.053 |
| Unit 6 (30 ft, 100 MW) | Chinook salmon | 184 | 75 | 75 | 97 | 100 | 100 | 96.0 | 0.046 |
| *Wanapum Dam* | | | | | | | | | |
| 1996 Unit 9 (10 ft, 9,000 cfs) | Coho salmon | 154 | 160 | 160 | 92 | 99 | 98 | 89.7 | 0.044 |
| Unit 9 (10 ft, 11,000 cfs) | Coho salmon | 154 | 160 | 160 | 93 | 97 | 96 | 92.4 | **0.038** |
| Unit 9 (10 ft, 15,000 cfs) | Coho salmon | 154 | 160 | 160 | 94 | 98 | 98 | 94.8 | **0.036** |
| Unit 9 (10 ft, 17,000 cfs) | Coho salmon | 154 | 160 | 160 | 88 | 99 | 99 | 88.5 | 0.043 |
| Unit 9 (30 ft, 9,000 cfs) | Coho salmon | 154 | 160 | 160 | 96 | 99 | 98 | 94.9 | **0.033** |
| Unit 9 (30 ft, 11,000 cfs) | Coho salmon | 154 | 160 | 160 | 96 | 97 | 96 | 96.8 | **0.028** |
| Unit 9 (30 ft, 15,000 cfs) | Coho salmon | 154 | 160 | 160 | 98 | 98 | 98 | 100.0 | **0.021** |
| Unit 9 (30 ft, 17,000 cfs) | Coho salmon | 154 | 160 | 160 | 96 | 99 | 99 | 96.8 | **0.023** |

**Table 2-4**

**Continued.**

| Station | Species | Average Size (mm) | Sample Size | | Recapture Rate (%) | | Control Survival | Estimated Survival Percent | Precision (ε) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Treatment | Control | Treatment | Control | | | |
| *Lower Granite*[2] | | | | | | | | | |
| 1994 Intake B (30 ft, 18,000 cfs) | Chinook salmon | 134 | 840 | 821 | 94 | 99 | 89 | 93.4 | **0.031** |
| 1995 Intake A (10 ft, 18,000 cfs) | Chinook salmon | 150 | 320 | 320 | 97 | 99 | 92 | 95.0 | **0.023** |
| Intake A (40 ft, 13,000 cfs) | Chinook salmon | 150 | 250 | 250 | 96 | 100 | 93 | 97.2 | **0.020** |
| Intake A (40 ft, 18,000 cfs) | Chinook salmon | 150 | 320 | 320 | 97 | 99 | 92 | 93.6 | 0.043 |
| Intake A (40 ft, 19,500 cfs) | Chinook salmon | 150 | 300 | 300 | 97 | 99 | 97 | 94.1 | **0.031** |
| Intake B (40 ft, 18,000 cfs) | Chinook salmon | 150 | 320 | 320 | 98 | 98 | 90 | 94.0 | **0.038** |
| Intake C (40 ft, 18,000 cfs) | Chinook salmon | 150 | 320 | 320 | 98 | 98 | 90 | 95.4 | **0.038** |
| *Rock Island* | | | | | | | | | |
| 1997 Powerhouse I-Nagler (12 ft, 8,000 cfs) | Chinook salmon | 179 | 140 | 110 | 99 | 100 | 100 | 93.6 | **0.035** |
| Powerhouse I-Nagler (18 ft, 8,000 cfs) | Chinook salmon | 179 | 139 | 120 | 99 | 100 | 100 | 92.8 | **0.036** |
| Powerhouse I-Kaplan (12 ft, 8,000 cfs) | Chinook salmon | 179 | 140 | 110 | 99 | 100 | 100 | 97.1 | **0.023** |
| Powerhouse I-Kaplan (18 ft, 8,000 cfs) | Chinook salmon | 179 | 141 | 120 | 98 | 100 | 100 | 95.0 | **0.031** |
| Powerhouse II-Bulb (5 ft, 17,000 cfs) | Chinook salmon | 179 | 140 | 110 | 100 | 100 | 100 | 96.4 | **0.026** |
| Powerhouse II-Bulb (25 ft, 17,000 cfs) | Chinook salmon | 179 | 140 | 110 | 99 | 100 | 100 | 95.0 | **0.030** |

1 - Unit 6 new turbine design.

2 - Reported 120 h survival for Lower Granite; others 48 h survival. Lower Granite turbine equipped with fish guidance screens.

3 - Shaded values reflect the 90% CI±≤4%.

**Table 2-5**

**Condition codes assigned to fish and dislodged balloon tags for fish passage survival evaluations**

**FISH CODES**

**A** No visible marks on fish
**B** Flesh tear at tag site(s)
**C** Minor scale loss, 3 to 20% (%s for entire body in immediate recovery; for detailed injury examination %s are for section only)
**D** Major scale loss, >20%
**E** Laceration(s); tear(s) on body
**F** Severed body parts
**G** Hemorrhaging, bruised
**H** Stressed (lethargic, swimming poorly or sporadically)
**I** Spasmodic movement of body
**J** Very weak, barely gilling, died within 60 minutes of recovery
**K** Failed to enter system
**L** Fish likely preyed on based on telemetry, and/or circumstances relative to Turb'N recapture
**M** Substantial bleeding at tag site
**N** Bulging or missing eye(s)
**P** Observed predator attack or marks indicative of predator
**Q** Other information
**R** Necropsied, no obvious injuries
**S** Necropsied, internal injuries observed
**T** Trapped inside tunnel/gate well
**V** Fins damaged (ripped, split, torn) or pulled from origin
**W** Abrasion/scrape
**X** No recovery information at all; fish remains unrecovered
**Z** Radio telemetry or other information; fish remains unrecovered

**DISSECTION CODES**

**B** Swim bladder ruptured or expanded
**D** Kidneys damaged (hemorrhaging)
**E** Broken bones obvious
**F** Hemorrhaging internally
**L** Organ displacement
**N** Heart damage, ruptured, hemorrhaging, etc.
**O** Liver damage, ruptured, hemorrhaging, etc.

**FISH SURVIVAL CODES**

**1** Alive when recaptured or not recaptured - assigned alive
**2** Dead when recaptured or not recaptured - assigned dead
**3** Live/Dead status unknown

**TURB'N TAG CODES**

**A** Fully inflated
**B** Partially inflated
**C** Pinhole, leaking
**D** Burst
**E** Not inflated at all
**X** Detached from fish

**Table 2-6**

**Number of fish trapped in Units 5 (existing) and 6 (MGR) tailwater stop log slots at Bonneville Dam, November 1999-January 2000.**

| | Blade Tip | Mid-blade | Hub | Total |
|---|---|---|---|---|
| | ***Unit 5 (Existing)*** | | | |
| Number released * | 992 | 926 | 682 | 2,600 |
| Number entrapped | 42 | 22 | 1 | 65 |
| Number alive | 20 | 8 | 0 | 28 |
| Number dead | 2 | 1 | 0 | 3 |
| Number not recaptured | 20 | 13 | 1 | 34 |
| | ***Unit 6 (MGR)*** | | | |
| Number released * | 987 | 921 | 685 | 2,593 |
| Number entrapped | 33 | 18 | 5 | 56 |
| Number alive | 16 | 7 | 1 | 24 |
| Number dead | 0 | 2 | 0 | 2 |
| Number not recaptured | 17 | 9 | 4 | 30 |

* Some trapped fish were removed from analysis due to their inaccessibility, these fish were replaced to achieve the desired sample size.

**Table 3-1**

**Summary of tag-recapture data at Bonneville Dam for turbine Units 5 (existing) and 6 (MGR) at various turbine locations and discharges, November 1999-January 2000. Proportions are given in parentheses.**

| | Unit 5 (Existing) | Unit 6 (MGR) | Control |
|---|---|---|---|
| | ***Tip, Power Level 1 releases*** | | |
| Number Released | 225 | 221 | 170 |
| Number Alive | 211 (0.938) | 209 (0.946) | 169 (0.994) |
| Number Dead | 5 (0.022) | 5 (0.023) | 0 (0.000) |
| No. Assigned Dead | 5 (0.022) | 5 (0.023) | 0 (0.000) |
| Unknown | 4 (0.018) | 2 (0.009) | 1 (0.006) |
| Held | 211 (0.938) | 209 (0.946) | 169 (0.994) |
| 48 h | 209 (0.929) | 206 (0.932) | 165 (0.971) |
| | ***Tip, Power Level 2 releases*** | | |
| Number Released | 264 | 266 | 200 |
| Number Alive | 244 (0.924) | 250 (0.940) | 197 (0.985) |
| Number Dead | 11 (0.042) | 3 (0.011) | 0 (0.000) |
| No. Assigned Dead | 8 (0.030) | 11 (0.041) | 2 (0.010) |
| Unknown | 1 (0.004) | 2 (0.008) | 1 (0.005) |
| Held | 213 (0.807) | 218 (0.820) | 157 (0.785) |
| 48 h | 208 (0.788) | 214 (0.805) | 156 (0.780) |
| | ***Tip, Power Level 3 releases*** | | |
| Number Released | 217 | 218 | 170 |
| Number Alive | 207 (0.954) | 211 (0.968) | 169 (0.994) |
| Number Dead | 4 (0.018) | 3 (0.014) | 0 (0.000) |
| No. Assigned Dead | 6 (0.028) | 3 (0.014) | 1 (0.006) |
| Unknown | 0 (0.000) | 1 (0.005) | 0 (0.000) |
| Held | 207 (0.954) | 211 (0.968) | 169 (0.994) |
| 48 h | 204 (0.940) | 209 (0.959) | 167 (0.982) |
| | ***Tip, Power Level 4 releases*** | | |
| Number Released | 260 | 258 | 184 |
| Number Alive | 234 (0.900) | 242 (0.938) | 182 (0.989) |
| Number Dead | 12 (0.046) | 6 (0.023) | 0 (0.000) |
| No. Assigned Dead | 10 (0.038) | 7 (0.027) | 1 (0.005) |
| Unknown | 4 (0.015) | 3 (0.012) | 1 (0.005) |
| Held | 234 (0.900) | 242 (0.938) | 182 (0.989) |
| 48 h | 232 (0.892) | 238 (0.922) | 181 (0.984) |

**Table 3-1**

**Continued.**

| | Unit 5 (Existing) | Unit 6 (MGR) | Control |
|---|---|---|---|
| | ***Mid-blade, Power Level 1 releases*** | | |
| Number Released | 219 | 214 | 165 |
| Number Alive | 209 (0.954) | 208 (0.972) | 163 (0.988) |
| Number Dead | 6 (0.027) | 0 (0.000) | 0 (0.000) |
| No. Assigned Dead | 3 (0.014) | 5 (0.023) | 2 (0.012) |
| Unknown | 1 (0.005) | 1 (0.005) | 0 (0.000) |
| Held | 170 (0.776) | 168 (0.785) | 125 (0.758) |
| 48 h | 167 (0.763) | 166 (0.776) | 124 (0.752) |
| | ***Mid-blade, Power Level 2 releases*** | | |
| Number Released | 261 | 258 | 200 |
| Number Alive | 248 (0.950) | 246 (0.953) | 198 (0.990) |
| Number Dead | 7 (0.027) | 4 (0.016) | 0 (0.000) |
| No. Assigned Dead | 4 (0.015) | 8 (0.031) | 0 (0.000) |
| Unknown | 2 (0.008) | 0 (0.000) | 2 (0.010) |
| Held | 248 (0.950) | 246 (0.953) | 198 (0.990) |
| 48 h | 245 (0.939) | 242 (0.938) | 198 (0.990) |
| | ***Mid-blade, Power Level 3 releases*** | | |
| Number Released | 215 | 216 | 170 |
| Number Alive | 210 (0.977) | 209 (0.968) | 169 (0.994) |
| Number Dead | 3 (0.014) | 2 (0.009) | 0 (0.000) |
| No. Assigned Dead | 1 (0.005) | 5 (0.023) | 0 (0.000) |
| Unknown | 1 (0.005) | 0 (0.000) | 1 (0.006) |
| Held | 210 (0.977) | 209 (0.968) | 169 (0.994) |
| 48 h | 205 (0.953) | 204 (0.944) | 165 (0.971) |
| | ***Mid-blade, Power Level 4 releases*** | | |
| Number Released | 216 | 215 | 170 |
| Number Alive | 207 (0.958) | 208 (0.967) | 166 (0.976) |
| Number Dead | 3 (0.014) | 4 (0.019) | 0 (0.000) |
| No. Assigned Dead | 6 (0.028) | 2 (0.009) | 4 (0.024) |
| Unknown | 0 (0.000) | 1 (0.005) | 0 (0.000) |
| Held | 207 (0.958) | 208 (0.967) | 166 (0.976) |
| 48 h | 206 (0.954) | 204 (0.949) | 166 (0.976) |

**Table 3-1**

**Continued.**

| | Unit 5 (Existing) | Unit 6 (MGR) | Control |
|---|---|---|---|
| | ***Hub, Power Level 1 releases*** | | |
| Number Released | 171 | 171 | 140 |
| Number Alive | 167 (0.977) | 167 (0.977) | 138 (0.986) |
| Number Dead | 1 (0.006) | 2 (0.012) | 0 (0.000) |
| No. Assigned Dead | 2 (0.012) | 2 (0.012) | 2 (0.014) |
| Unknown | 1 (0.006) | 0 (0.000) | 0 (0.000) |
| Held | 167 (0.977) | 167 (0.977) | 138 (0.986) |
| 48 h | 166 (0.971) | 165 (0.965) | 138 (0.986) |
| | ***Hub, Power Level 2 releases*** | | |
| Number Released | 170 | 170 | 140 |
| Number Alive | 170 (0.994) | 164 (0.959) | 140 (1.000) |
| Number Dead | 0 (0.000) | 3 (0.018) | 0 (0.000) |
| No. Assigned Dead | 0 (0.000) | 2 (0.012) | 0 (0.000) |
| Unknown | 0 (0.000) | 1 (0.006) | 0 (0.000) |
| Held | 170 (0.994) | 164 (0.959) | 140 (1.000) |
| 48 h | 170 (0.994) | 164 (0.959) | 139 (0.993) |
| | ***Hub, Power Level 3 releases*** | | |
| Number Released | 170 | 170 | 140 |
| Number Alive | 163 (0.959) | 166 (0.976) | 139 (0.993) |
| Number Dead | 3 (0.018) | 1 (0.006) | 0 (0.000) |
| No. Assigned Dead | 4 (0.024) | 3 (0.018) | 1 (0.007) |
| Unknown | 0 (0.000) | 0 (0.000) | 0 (0.000) |
| Held | 163 (0.959) | 166 (0.976) | 139 (0.993) |
| 48 h | 162 (0.953) | 164 (0.965) | 138 (0.986) |
| | ***Hub, Power Level 4 releases*** | | |
| Number Released | 170 | 170 | 140 |
| Number Alive | 169 (0.994) | 165 (0.971) | 140 (1.000) |
| Number Dead | 1 (0.006) | 0 (0.000) | 0 (0.000) |
| No. Assigned Dead | 0 (0.000) | 5 (0.029) | 0 (0.000) |
| Unknown | 0 (0.000) | 0 (0.000) | 0 (0.000) |
| Held | 169 (0.994) | 165 (0.971) | 140 (1.000) |
| 48 h | 169 (0.994) | 164 (0.965) | 140 (1.000) |

**Table 3-2**

**Estimated absolute survival probabilities (1 h and 48 h), standard errors (SE[1] in parentheses, of juvenile chinook salmon in passage through three locations (blade tip, mid-blade, and hub) under four power levels of Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999 to January 2000.**

| | | Survival Probability | |
|---|---|---|---|
| **Power Level** | **Release Location** | **1 h** | **48 h** |
| | | ***Unit 5 (Existing)*** | |
| 1 | Tip | 0.947 (0.0164)[1] | 0.945 (0.0177) |
| | Mid | 0.964 (0.0144) | 0.949 (0.0192) |
| | Hub | 0.986 (0.0119) | 0.988 (0.0134)* |
| 2 | Tip | 0.933 (0.0166) | 0.920 (0.0199) |
| | Mid | 0.959 (0.0137) | 0.955 (0.0154) |
| | Hub | 1.009 (0.0774) | 1.017 (0.0780) |
| 3 | Tip | 0.963 (0.0145) | 0.957 (0.0166) |
| | Mid | 0.986 (0.0106) | 0.970 (0.0149) |
| | Hub | 0.968 (0.0155) | 0.970 (0.0168)* |
| 4 | Tip | 0.909 (0.0189) | 0.908 (0.0197) |
| | Mid | 0.968 (0.0139) | 0.971 (0.0148)* |
| | Hub | 1.004 (0.0063) | 1.012 (0.0066)* |
| | | ***Unit 6 (MGR)*** | |
| 1 | Tip | 0.955 (0.0155) | 0.948 (0.0174) |
| | Mid | 0.981 (0.0116) | 0.971 (0.0164) |
| | Hub | 0.986 (0.0118) | 0.982 (0.0146) |
| 2 | Tip | 0.949 (0.0149) | 0.943 (0.0177) |
| | Mid | 0.963 (0.0134) | 0.954 (0.0155) |
| | Hub | 0.974 (0.0144) | 0.982 (0.0147)* |
| 3 | Tip | 0.977 (0.0122) | 0.976 (0.0140) |
| | Mid | 0.977 (0.0123) | 0.961 (0.0161) |
| | Hub | 0.986 (0.0119) | 0.982 (0.0147) |
| 4 | Tip | 0.947 (0.0153) | 0.939 (0.0172) |
| | Mid | 0.977 (0.0124) | 0.966 (0.0155) |
| | Hub | 0.980 (0.0132) | 0.982 (0.0147)* |

* Survival probabilities established at 1 h because 48 h survival cannot exceed 1 h survival.

1 Multiply standard errors (SE) by 1.645 to obtain 90% confidence intervals; multiply by 1.96 to get 95% confidence intervals. As an example, Unit 5 blade tip 90% confidence intervals on 1 h survival 0.947±(0.0164 x 1.645)=±0.027.

**Table 3-3**

**Results of regression analysis of absolute survival versus turbine operating conditions, Bonneville Dam, November 1999-January 2000.**

| | Release | Independent | Linear | | Quadratic | |
|---|---|---|---|---|---|---|
| Turbine | Location | Variable | P-Value | $R^2$ | P-Value | $R^2$ |
| 5 | Tip | Discharge | 0.7922 | 0.0037 | 1 | < 0.0001 |
| | | Head | 1 | < 0.0001 | 0.9129 | 0.0101 |
| | | Wicket Gate | 0.8025 | 0.0034 | 0.7949 | 0.0252 |
| | | Blade Angle | 0.7417 | 0.0059 | 0.9643 | 0.004 |
| | | Generation | 0.8258 | 0.026 | 1 | < 0.0001 |
| | | Efficiency | 0.6662 | 0.01 | 0.977 | 0.0026 |
| | Mid | Discharge | 0.6251 | 0.0135 | 0.7636 | 0.0312 |
| | | Head | 0.5906 | 0.0164 | 0.8044 | 0.0253 |
| | | Wicket Gate | 0.6239 | 0.0136 | 0.8706 | 0.0162 |
| | | Blade Angle | 0.6268 | 0.0134 | 0.6857 | 0.0434 |
| | | Generation | 0.6342 | 0.0128 | 0.5064 | 0.0769 |
| | | Efficiency | 0.971 | 0.0001 | 0.9691 | 0.0037 |
| | Hub | Discharge | 0.6686 | 0.0135 | 0.8308 | 0.0281 |
| | | Head | 0.1348 | 0.1528 | 0.3391 | 0.1533 |
| | | Wicket Gate | 0.797 | 0.0049 | 0.8579 | 0.0233 |
| | | Blade Angle | 0.6653 | 0.0138 | 0.8999 | 0.0161 |
| | | Generation | 0.5177 | 0.0305 | 0.8173 | 0.0306 |
| | | Efficiency | 0.8357 | 0.0032 | 0.9782 | 0.0034 |
| 6 | Tip | Discharge | 1 | < 0.0001 | 0.6079 | 0.0538 |
| | | Head | 1 | < 0.0001 | 1 | < 0.0001 |
| | | Wicket Gate | 0.8851 | 0.0011 | 0.8548 | 0.0173 |
| | | Blade Angle | 1 | < 0.0001 | 0.8783 | 0.0143 |
| | | Generation | 1 | < 0.0001 | 0.5423 | 0.0657 |
| | | Efficiency | 0.7089 | 0.0075 | 0.9379 | 0.0071 |
| | Mid | Discharge | 1 | < 0.0001 | 0.9623 | 0.0045 |
| | | Head | 0.8598 | 0.0018 | 0.9721 | 0.0033 |
| | | Wicket Gate | 1 | < 0.0001 | 0.6909 | 0.0426 |
| | | Blade Angle | 0.9252 | 0.0005 | 0.9972 | 0.0003 |
| | | Generation | 1 | < 0.0001 | 0.9851 | 0.0018 |
| | | Efficiency | 0.5629 | 0.0189 | 0.8645 | 0.017 |
| | Hub | Discharge | 1 | < 0.0001 | 0.9963 | 0.0006 |
| | | Head | 0.5281 | 0.029 | 0.603 | 0.0749 |
| | | Wicket Gate | 1 | < 0.0001 | 1 | < 0.0001 |
| | | Blade Angle | 1 | < 0.0001 | 0.9289 | 0.0113 |
| | | Generation | 0.8747 | 0.0018 | 0.9056 | 0.0151 |
| | | Efficiency | 0.9708 | 0.0001 | 0.9578 | 0.0066 |

**Table 3-4**

**Estimated safe fish passage survival probabilities (48 h), with standard errors in parentheses, of juvenile chinook salmon in passage through three locations and four power levels of Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000. Safe passage assigned to fish without mortality, injury, and/or loss of equilibrium.**

| | Power Level | | | |
|---|---|---|---|---|
| | **1** | **2** | **3** | **4** |
| | | ***Unit 5 (Existing)*** | | |
| Blade tip | 0.918 (0.023) | 0.915 (0.021) | 0.947 (0.018) | 0.900 (0.022) |
| Mid-blade | 0.948 (0.020) | 0.948 (0.017) | 0.960 (0.017) | 0.956 (0.017) |
| Hub | 0.992 (0.014) | 0.998 (0.011) | 0.968 (0.017) | 0.998 (0.011) |
| | | ***Unit 6 (MGR)*** | | |
| Blade tip | 0.948 (0.019) | 0.934 (0.019) | 0.970 (0.015) | 0.931 (0.019) |
| Mid-blade | 0.952 (0.020) | 0.947 (0.016) | 0.951 (0.017) | 0.965 (0.016) |
| Hub | 0.956 (0.019) | 0.962 (0.019) | 0.986 (0.014) | 0.974 (0.016) |

**Table 3-5**

**Comparison of 48 h absolute survival, safe passage, and relative survival probabilities of juvenile chinook salmon passed through Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000. Safe passage encompasses live fish without injury and/or loss of equilibrium.**

| | Absolute Survival | Standard Error* | Safe Passage | Standard Error | | Relative Survival | Standard Error |
|---|---|---|---|---|---|---|---|
| | | | | ***Unit 5 (Existing)*** | | | |
| Tip | 0.931 | (0.0100) | 0.919 | (0.0110) | Tip:Mid-blade | 0.970 | (0.0125) |
| Mid-blade | 0.962 | (0.0080) | 0.953 | (0.0091) | Hub:Mid-blade | 1.040 | (0.0103) |
| Hub | 0.994 | (0.0060) | 0.989 | (0.0072) | | | |
| | | | | ***Unit 6 (MGR)*** | | | |
| Tip | 0.950 | (0.0080) | 0.945 | (0.0098) | Tip:Mid-blade | 0.994 | (0.0114) |
| Mid-blade | 0.961 | (0.0080) | 0.953 | (0.0090) | Hub:Mid-blade | 1.020 | (0.0110) |
| Hub | 0.980 | (0.0080) | 0.969 | (0.0088) | | | |

**Table 3-6**

**Estimated 48 h relative survival probabilities and standard errors for juvenile chinook salmon in passage through the blade tip and hub regions of turbine Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000. Estimates are based on generalized model (HA:PA ne PD) for Unit 5 and reduced model ($H_O$:$P_A$=$P_D$) for Unit 6.**

| | Survival Probability | Standard Error* | P-value ($H_O$:R=1) |
|---|---|---|---|
| | | ***Unit 5 (Existing)*** | |
| Tip:Mid-blade | 0.970 | 0.0125 | 0.0120 |
| Hub:Mid-blade | 1.040 | 0.0103 | 0.0004 |
| | | ***Unit 6 (MGR)*** | |
| Tip:Mid-blade | 0.994 | 0.0114 | 0.6233 |
| Hub:Mid-blade | 1.020 | 0.0110 | 0.0763 |

* Multiply standard errors (SE) by 1.645 to obtain 90% confidence intervals; multiply SE by 1.96 to obtain 95% confidence intervals. As an example, Unit 5 tip:mid-blade 90% confidence interval= 0.97±(1.0125*1.645=±1.666).

**Table 3-7**

**Summary of loss of equilibrium and visible injuries to fish released through Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000. Some fish had multiple injuries.**

| | | | | | | | Injury Type | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number Released | Number Examined | L.O.E.* Number | L.O.E.* Percent | Visible Injury Number | Visible Injury Percent | Decapitation/ Severed Body | External Hemorrhage/ Scrape | Eye Damage/ Hemorrhage | Cuts/ Tears/ Lacerations | Internal Damage/ Hemorrhage | Gill Hemorrhage |
| | | | | | | | ***Unit 5 (Existing)*** | | | | | |
| Blade tip | 966 | 928 | 16 | 1.7 | 36 | 3.9 | 9 | 4 | 18 | 10 | 10 | 7 |
| Mid-blade | 911 | 894 | 14 | 1.6 | 21 | 2.3 | 11 | 3 | 5 | 3 | 2 | 4 |
| Hub | 681 | 674 | 11 | 1.6 | 5 | 0.7 | 2 | 1 | 0 | 1 | 1 | 2 |
| ***Totals*** | ***2,558*** | ***2,496*** | ***41*** | ***1.6*** | ***62*** | ***2.5*** | ***22*** | ***8*** | ***23*** | ***14*** | ***13*** | ***13*** |
| | | | | | | | ***Unit 6 (MGR)*** | | | | | |
| Blade tip | 963 | 929 | 12 | 1.3 | 18 | 1.9 | 10 | 2 | 4 | 2 | 4 | 2 |
| Mid-blade | 903 | 881 | 14 | 1.6 | 9 | 1.0 | 5 | 0 | 2 | 3 | 2 | 1 |
| Hub | 681 | 668 | 13 | 1.9 | 7 | 1.0 | 1 | 0 | 3 | 1 | 3 | 3 |
| ***Totals*** | ***2,547*** | ***2,478*** | ***39*** | ***1.6*** | ***34*** | ***1.4*** | ***16*** | ***2*** | ***9*** | ***6*** | ***9*** | ***6*** |
| | | | | | | | ***All Controls*** | | | | | |
| ***Totals*** | ***1,989*** | ***1,970*** | ***8*** | ***0.4*** | ***4*** | ***0.2*** | ***0*** | ***1*** | ***0*** | ***0*** | ***3*** | ***0*** |

* Fish with only loss of equilibrium, no visible internal or external injuries.

**Table 3-8**

**Summary of fish with visible injuries released through turbine Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000.**

| | Injury | | | |
|---|---|---|---|---|
| **Power Level** | **Blade Tip** | **Mid-blade** | **Hub** | **Combined** |
| | | ***Unit 5 (Existing)*** | | |
| 1 | 3.2% | 2.8% | 0.6% | 2.3% |
| 2 | 4.7% | 3.5% | 0.0% | 3.1% |
| 3 | 2.8% | 1.9% | 1.8% | 2.2% |
| 4 | 4.5% | 1.0% | 0.6% | 2.2% |
| | | ***Unit 6 (MGR)*** | | |
| 1 | 3.3% | 0.0% | 1.2% | 1.5% |
| 2 | 1.2% | 1.6% | 1.8% | 1.5% |
| 3 | 0.9% | 0.5% | 0.6% | 0.7% |
| 4 | 2.4% | 1.9% | 0.6% | 1.8% |

**Table 3-9**

**Comparison of likely fish injury source and passage routes of fish passed through turbine Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000.**

| Power Level | Release Location | Number Injured | Shear | Mechanical | Pressure | Combination |
|---|---|---|---|---|---|---|
| | | | ***Unit 5 (Existing)*** | | | |
| 1 | Tip | 7 | 6 (85.7%) | 1 (14.3%) | 0 (0.0%) | 0 (0.0%) |
| 2 | | 12 | 2 (16.7%) | 6 (50.0%) | 2 (16.7%) | 2 (16.7%) |
| 3 | | 6 | 1 (16.7%) | 1 (16.7%) | 4 (66.7%) | 0 (0.0%) |
| 4 | | 11 | 4 (36.4%) | 5 (45.5%) | 0 (0.0%) | 2 (18.2%) |
| | *Combined* | *36* | *13 (36.1%)* | *13 (36.1%)* | *6 (16.7%)* | *4 (11.1%)* |
| 1 | Mid | 6 | 2 (33.3%) | 2 (33.3%) | 2 (33.3%) | 2 (33.3%) |
| 2 | | 9 | 3 (33.3%) | 3 (33.3%) | 0 (0.0%) | 1 (11.1%) |
| 3 | | 4 | 2 (50.0%) | 2 (50.0%) | 0 (0.0%) | 0 (0.0%) |
| 4 | | 2 | 0 (0.0%) | 2 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *21* | *7 (33.3%)* | *9 (42.9%)* | *2 (9.5%)* | *3 (14.3%)* |
| 1 | Hub | 1 | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 2 | | 0 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 3 | | 3 | 1 (33.3%) | 2 (66.7%) | 0 (0.0%) | 0 (0.0%) |
| 4 | | 1 | 0 (0.0%) | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) |
| | *Combined* | *5* | *2* (40.0%) | *2* (40.0%) | *1* (20.0%) | *0* (0.0%) |
| | *Overall Unit 5* | *62* | *22 (35.5%)* | *24 (38.7%)* | *9 (14.5%)* | *7 (11.3%)* |
| | | | ***Unit 6 (MGR)*** | | | |
| 1 | Tip | 7 | 3 (42.9%) | 3 (42.9%) | 1 (14.3%) | 0 (0.0%) |
| 2 | | 3 | 0 (0.0%) | 3 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| 3 | | 2 | 0 (0.0%) | 1 (50.0%) | 1 (50.0%) | 0 (0.0%) |
| 4 | | 6 | 1 (16.7%) | 2 (33.3%) | 1 (16.7%) | 2 (33.3%) |
| | *Combined* | *18* | *4 (22.2%)* | *9 (50.0%)* | *3 (16.7%)* | *2 (11.1%)* |
| 1 | Mid | 0 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 2 | | 4 | 3 (75.0%) | 0 (0.0%) | 0 (0.0%) | 1 (25.0%) |
| 3 | | 1 | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| 4 | | 4 | 3 (75.0%) | 1 (25.0%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *9* | *6 (66.7%)* | *2 (22.2%)* | *0 (0.0%)* | *1 (11.1%)* |
| 1 | Hub | 2 | 1 (50.0%) | 0 (0.0%) | 1 (50.0%) | 0 (0.0%) |
| 2 | | 3 | 2 (66.7%) | 0 (0.0%) | 1 (33.3%) | 0 (0.0%) |
| 3 | | 1 | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 4 | | 1 | 0 (0.0%) | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) |
| | *Combined* | *7* | *4 (57.1%)* | *0 (0.0%)* | *3 (42.9%)* | *0 (0.0%)* |
| | *Overall Unit 6* | *34* | *14 (41.2%)* | *11 (32.4%)* | *6 (17.6%)* | *3 (8.8%)* |

**Table 3-10**

**Comparison of likely fish injury source and power level of fish passed through turbine Units 5 (existing) and 6 (MGR) at Bonneville Dam, November 1999-January 2000.**

| Power Level | Release Location | Number Injured | Shear | Mechanical | Pressure | Combination |
|---|---|---|---|---|---|---|
| | | | ***Unit 5 (Existing)*** | | | |
| 1 | Tip | 7 | 6 (85.7%) | 1 (14.3%) | 0 (0.0%) | 0 (0.0%) |
| | Mid | 6 | 2 (33.3%) | 2 (33.3%) | 0 (0.0%) | 2 (33.3%) |
| | Hub | 1 | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *14* | *9 (64.3%)* | *3 (21.4%)* | *0 (0.0%)* | *2 (14.3%)* |
| 2 | Tip | 12 | 2 (16.7%) | 6 (50.0%) | 2 (16.7%) | 2 (16.7%) |
| | Mid | 9 | 3 (33.3%) | 3 (33.3%) | 2 (22.2%) | 1 (11.1%) |
| | Hub | 0 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *21* | *5 (23.8%)* | *9 (42.9%)* | *4 (19.0%)* | *3 (14.3%)* |
| 3 | Tip | 6 | 1 (16.7%) | 1 (16.7%) | 4 (66.7%) | 0 (0.0%) |
| | Mid | 4 | 2 (50.0%) | 2 (50.0%) | 0 (0.0%) | 0 (0.0%) |
| | Hub | 3 | 1 (33.3%) | 2 (66.7%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *13* | *4 (30.8%)* | *5 (38.5%)* | *4 (30.8%)* | *0 (0.0%)* |
| 4 | Tip | 11 | 4 (36.4%) | 5 (45.5%) | 0 (0.0%) | 2 (18.2%) |
| | Mid | 2 | 0 (0.0%) | 2 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| | Hub | 1 | 0 (0.0%) | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) |
| | *Combined* | *14* | *4 (28.6%)* | *7 (50.0%)* | *1 (7.1%)* | *2 (14.3%)* |
| *Overall Unit 5* | | *62* | *22 (35.5%)* | *24 (38.7%)* | *9 (14.5%)* | *7 (11.3%)* |
| | | | ***Unit 6 (MGR)*** | | | |
| 1 | Tip | 7 | 3 (42.9%) | 3 (42.9%) | 1 (14.3%) | 0 (0.0%) |
| | Mid | 0 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Hub | 2 | 1 (50.0%) | 0 (0.0%) | 1 (50.0%) | 0 (0.0%) |
| | *Combined* | *9* | *4 (44.4%)* | *3 (33.3%)* | *2 (22.2%)* | *0 (0.0%)* |
| 2 | Tip | 3 | 0 (0.0%) | 3 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| | Mid | 4 | 3 (75.0%) | 0 (0.0%) | 0 (0.0%) | 1 (25.0%) |
| | Hub | 3 | 2 (66.7%) | 0 (0.0%) | 1 (33.3%) | 0 (0.0%) |
| | *Combined* | *10* | *5 (50.0%)* | *3 (30.0%)* | *1 (10.0%)* | *1 (10.0%)* |
| 3 | Tip | 2 | 0 (0.0%) | 1 (50.0%) | 1 (50.0%) | 0 (0.0%) |
| | Mid | 1 | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) |
| | Hub | 1 | 1 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | *Combined* | *4* | *1 (25.0%)* | *2 (50.0%)* | *1 (25.0%)* | *0 (0.0%)* |
| 4 | Tip | 6 | 1 (16.7%) | 2 (33.3%) | 1 (16.7%) | 2 (33.3%) |
| | Mid | 4 | 3 (75.0%) | 1 (25.0%) | 0 (0.0%) | 0 (0.0%) |
| | Hub | 1 | 0 (0.0%) | 0 (0.0%) | 1 (100.0%) | 0 (0.0%) |
| | *Combined* | *11* | *4 (36.4%)* | *3 (27.3%)* | *2 (18.2%)* | *2 (18.2%)* |
| *Overall Unit 6* | | *34* | *14 (41.2%)* | *11 (32.4%)* | *6 (17.6%)* | *3 (8.8%)* |

APPENDIX TABLE E-2.

Short-term turbine passage survival data on individual chinook salmon released in Units 5 & 6 at Bonneville Dam, November 1999 - January 2000. Fish were tagged with Normandeau's HI-Z Turb-N tags. Description of condition codes and details on injured fish are presented in Appendix Table E-1.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 16 November 1999 - Testlot 2 : PL=4, Unit 6, Tip - Water temp=52.5 C | | | | | | | | |
| RM0 | 13:49 | 14:01 | 12 | 2 | ALIVE | A | 160 | |
| RM1 | 13:55 | 13:58 | 3 | 2 | ALIVE | A | 177 | |
| RM3 | 13:51 | 13:57 | 6 | 2 | ALIVE | A | 182 | |
| RM4 | 13:56 | . | . | 0 | DEAD | QL | 163 | |
| RM5 | 14:07 | 14:13 | 6 | 2 | ALIVE | A | 181 | |
| RM6 | 14:15 | 14:26 | 11 | 2 | ALIVE | A | 172 | |
| RM7 | 14:14 | 14:23 | 9 | 2 | ALIVE | A | 130 | |
| RM8 | 14:06 | 14:19 | 13 | 2 | ALIVE | A | 172 | |
| RM9 | 14:06 | 14:30 | 24 | 2 | ALIVE | A | 144 | |
| RN0 | 14:33 | 14:40 | 7 | 2 | ALIVE | A | 168 | |
| RN1 | 14:32 | . | . | 0 | UNKNOWN | X | 171 | |
| RN2 | 14:51 | 14:56 | 5 | 2 | ALIVE | A | 177 | |
| RN3 | 14:45 | 14:48 | 3 | 2 | DEAD | F | 170 | |
| RN4 | 14:41 | 14:47 | 6 | 2 | ALIVE | A | 162 | |
| RN5 | 15:03 | 15:10 | 7 | 2 | ALIVE | A | 164 | |
| RN6 | 15:02 | 15:05 | 3 | 2 | ALIVE | A | 180 | |
| RN7 | 15:04 | 15:13 | 9 | 2 | ALIVE | A | 181 | |
| RN8 | 15:06 | 15:14 | 8 | 2 | ALIVE | A | 176 | |
| RN9 | 15:05 | 15:08 | 3 | 2 | ALIVE | A | 178 | |
| RP0 | 15:20 | 15:44 | 24 | 2 | ALIVE | A | 182 | |
| RP1 | 15:19 | . | . | 0 | DEAD | Z | 177 | |
| RP2 | 15:14 | . | . | 0 | UNKNOWN | X | 179 | |
| RP3 | 15:13 | 15:16 | 3 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RP4 | 15:15 | 15:21 | 6 | 2 | ALIVE | A | 134 |
| RP5 | 15:53 | 15:58 | 5 | 2 | ALIVE | A | 174 |
| RP6 | 15:55 | 16:10 | 15 | 2 | ALIVE | A | 177 |
| RP7 | 15:59 | 16:03 | 4 | 2 | ALIVE | A | 173 |
| RP8 | 15:54 | 15:59 | 5 | 2 | ALIVE | A | 164 |
| RP9 | 15:59 | 16:08 | 9 | 2 | ALIVE | A | 174 |
| RR0 | 16:11 | . | . | 0 | UNKNOWN | X | 150 |
| RR1 | 16:16 | 16:31 | 15 | 2 | ALIVE | A | 135 |
| RR2 | 16:10 | . | . | 0 | DEAD | Z | 175 |
| RR3 | 16:06 | 16:20 | 14 | 2 | ALIVE | A | 180 |
| RR4 | 16:05 | 16:06 | 1 | 2 | ALIVE | A | 173 |
| RT9 | 13:50 | 13:54 | 4 | 2 | ALIVE | A | 179 |
| RX4 | 8:53 | 9:10 | 17 | 2 | ALIVE | A | 180 |
| RX5 | 8:54 | 8:56 | 2 | 2 | ALIVE | A | 164 |
| RX6 | 8:54 | 9:12 | 18 | 2 | ALIVE | A | 165 |
| RX7 | 8:52 | 9:05 | 13 | 2 | ALIVE | A | 173 |
| RX8 | 8:52 | 9:20 | 28 | 2 | ALIVE | A | 198 |
| RX9 | 9:25 | 9:50 | 25 | 2 | ALIVE | A | 191 |
| RY0 | 9:18 | . | . | 0 | TAG & PIN | | 158 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| RY1 | 9:26 | 9:29 | 3 | 2 | ALIVE | A | 173 | |
| RY2 | 9:19 | 9:22 | 3 | 1 | DEAD | F | 163 | |
| RY4 | 9:53 | 10:13 | 20 | 2 | ALIVE | A | 173 | |
| RY5 | 9:55 | 10:06 | 11 | 2 | ALIVE | A | 178 | |
| RY6 | 9:54 | . | . | 0 | DEAD | Z | 189 | |
| RY7 | 9:57 | . | . | 0 | DEAD | Z | 143 | |
| RY8 | 9:56 | 10:17 | 21 | 2 | ALIVE | A | 170 | |
| RY9 | 10:25 | 10:49 | 24 | 2 | ALIVE | A | 160 | |
| RZ0 | 10:26 | 10:55 | 29 | 1 | ALIVE | B | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RZ1 | 10:27 | . | . | 0 | UNKNOWN | X | 167 |
| RZ2 | 10:27 | 10:53 | 26 | 2 | ALIVE | A | 168 |
| RZ3 | 10:24 | 11:07 | 43 | 2 | ALIVE | A | 172 |
| RZ4 | 13:13 | 13:38 | 25 | 2 | ALIVE | A | 164 |
| RZ5 | 13:14 | 13:24 | 10 | 2 | ALIVE | A | 175 |
| RZ6 | 13:25 | 13:33 | 8 | 2 | ALIVE | A | 170 |
| RZ7 | 13:15 | 13:38 | 23 | 2 | ALIVE | A | 187 |
| RZ8 | 13:26 | 13:44 | 18 | 2 | ALIVE | A | 185 |
| RZ9 | 9:27 | 9:45 | 18 | 2 | ALIVE | A | 167 |
| YX4 | 11:45 | 12:02 | 17 | 2 | ALIVE | A | 163 |
| YX5 | 11:47 | 11:55 | 8 | 2 | ALIVE | A | 176 |
| YX6 | 11:46 | 11:53 | 7 | 2 | ALIVE | A | 172 |
| YX7 | 11:45 | 11:58 | 13 | 2 | ALIVE | A | 179 |
| YX8 | 11:47 | 11:50 | 3 | 2 | ALIVE | A | 164 |
| YX9 | 12:06 | 12:20 | 14 | 2 | ALIVE | A | 136 |
| YY0 | 12:05 | 12:07 | 2 | 2 | ALIVE | A | 168 |
| YY1 | 12:04 | 12:09 | 5 | 2 | ALIVE | A | 169 |
| YY2 | 12:05 | 12:10 | 5 | 2 | ALIVE | A | 163 |
| YY3 | 12:03 | 12:18 | 15 | 2 | ALIVE | A | 167 |
| YY4 | 12:23 | 12:25 | 2 | 2 | ALIVE | A | 160 |
| YY5 | 12:22 | 12:25 | 3 | 2 | ALIVE | A | 175 |
| YY6 | 12:24 | 12:27 | 3 | 2 | ALIVE | A | 162 |
| YY7 | 12:21 | 12:32 | 11 | 2 | ALIVE | A | 168 |
| YY8 | 12:23 | 12:32 | 9 | 2 | ALIVE | A | 153 |
| YY9 | 12:36 | . | . | 0 | UNKNOWN | X | 160 |
| YZ0 | 12:33 | 12:52 | 19 | 2 | ALIVE | A | 135 |
| YZ1 | 12:35 | 12:37 | 2 | 2 | ALIVE | A | 170 |
| YZ2 | 12:36 | 12:58 | 22 | 2 | ALIVE | A | 177 |
| YZ3 | 12:34 | 12:55 | 21 | 2 | ALIVE | A | 194 |

17 November 1999 - Testlot 3 : PL=1, Unit 6, Mid - Water temp=52.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RA0 | 14:07 | 14:14 | 7 | 2 | ALIVE | TA | 172 |
| RA1 | 14:04 | 14:22 | 18 | 2 | ALIVE | A | 169 |
| RA2 | 14:15 | 14:39 | 24 | 2 | ALIVE | A | 162 |
| RA3 | 14:28 | 14:37 | 9 | 2 | ALIVE | A | 175 |
| RA4 | 14:30 | 14:38 | 8 | 2 | ALIVE | A | 166 |
| RA5 | 14:13 | 14:38 | 25 | 2 | ALIVE | A | 159 |
| RA6 | 14:23 | 14:27 | 4 | 2 | ALIVE | A | 183 |
| RA7 | 14:39 | 14:51 | 12 | 2 | ALIVE | A | 180 |
| RE9 | 13:38 | 13:50 | 12 | 2 | ALIVE | A | 177 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| RF0 | 9:11 | 9:19 | 8 | 2 | ALIVE | A | 147 | |
| RF1 | 9:09 | 9:32 | 23 | 2 | ALIVE | A | 162 | |
| RF2 | 9:44 | 9:48 | 4 | 2 | ALIVE | A | 157 | |
| RF3 | 9:42 | 9:45 | 3 | 2 | ALIVE | A | 164 | |
| RF4 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 151 | |
| RF5 | 9:34 | 9:39 | 5 | 2 | ALIVE | A | 183 | |
| RF6 | 9:43 | 9:45 | 2 | 2 | ALIVE | A | 180 | |
| RF7 | 9:51 | 9:53 | 2 | 2 | ALIVE | A | 175 | |
| RF8 | 9:47 | 9:52 | 5 | 2 | ALIVE | A | 180 | |
| RF9 | 9:53 | 10:00 | 7 | 2 | ALIVE | A | 170 | |
| RH0 | 9:46 | 9:50 | 4 | 2 | ALIVE | A | 170 | |
| RH1 | 9:50 | 9:56 | 6 | 2 | ALIVE | A | 176 | |
| RH2 | 10:03 | 10:14 | 11 | 2 | ALIVE | A | 174 | |
| RH3 | 10:01 | 10:04 | 3 | 2 | ALIVE | A | 154 | |
| RH4 | 10:03 | 10:22 | 19 | 2 | ALIVE | A | 199 | |
| RH5 | 9:57 | 10:02 | 5 | 2 | ALIVE | A | 130 | |
| RH6 | 9:56 | 9:59 | 3 | 2 | ALIVE | A | 143 | |
| RH7 | 10:27 | 10:56 | 29 | 2 | ALIVE | A | 158 | |
| RH8 | 10:29 | 10:43 | 14 | 2 | ALIVE | A | 177 | |
| RH9 | 10:25 | 10:28 | 3 | 2 | ALIVE | A | 134 | |
| RJ0 | 10:26 | 10:32 | 6 | 2 | ALIVE | A | 135 | |
| RJ1 | 10:33 | 10:37 | 4 | 2 | ALIVE | A | 182 | |
| RJ2 | 10:52 | 10:55 | 3 | 2 | ALIVE | A | 162 | |
| RJ3 | 10:53 | 11:00 | 7 | 2 | ALIVE | A | 171 | |
| RJ4 | 10:44 | 10:51 | 7 | 2 | ALIVE | A | 177 | |
| RJ5 | 10:39 | 10:40 | 1 | 2 | ALIVE | A | 154 | |
| RJ6 | 10:42 | 10:52 | 10 | 2 | ALIVE | A | 172 | |
| RJ7 | 11:06 | 11:13 | 7 | 2 | ALIVE | A | 178 | |
| RJ8 | 11:04 | 11:06 | 2 | 2 | ALIVE | A | 159 | |
| RJ9 | 11:07 | 11:27 | 20 | 2 | ALIVE | A | 182 | |
| RK0 | 10:55 | 11:05 | 10 | 2 | ALIVE | A | 165 | |
| RK1 | 10:58 | 11:06 | 8 | 2 | ALIVE | A | 167 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RK2 | 11:28 | 11:40 | 12 | 2 | ALIVE | A | 137 |
| RK3 | 11:18 | 11:27 | 9 | 2 | ALIVE | A | 170 |
| RK4 | 11:14 | 11:17 | 3 | 2 | ALIVE | A | 178 |
| RK5 | 11:27 | 11:36 | 9 | 2 | ALIVE | A | 173 |
| RK6 | 11:10 | 11:33 | 23 | 2 | ALIVE | A | 167 |
| RK7 | 13:31 | 13:36 | 5 | 2 | ALIVE | A | 180 |
| RK8 | 13:21 | 13:33 | 12 | 2 | ALIVE | A | 162 |
| RK9 | 13:24 | 13:31 | 7 | 2 | ALIVE | A | 161 |
| RL0 | 13:23 | 13:29 | 6 | 2 | ALIVE | A | 176 |
| RL1 | 13:20 | 13:23 | 3 | 2 | ALIVE | A | 175 |
| RL2 | 13:40 | 13:46 | 6 | 2 | ALIVE | A | 164 |
| RL4 | 13:32 | 13:39 | 7 | 2 | ALIVE | A | 173 |
| RL5 | 13:45 | 13:49 | 4 | 2 | ALIVE | A | 178 |
| RL6 | 13:35 | 13:44 | 9 | 2 | ALIVE | A | 170 |
| RL7 | 13:54 | 14:13 | 19 | 2 | ALIVE | A | 183 |
| RL8 | 13:53 | 14:17 | 24 | 2 | ALIVE | A | 170 |
| RL9 | 13:48 | 14:03 | 15 | 2 | ALIVE | A | 170 |
| RR5 | 7:48 | 7:49 | 1 | 2 | ALIVE | A | 187 |
| RR6 | 7:47 | 7:57 | 10 | 2 | ALIVE | A | 142 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| RR7 | 7:50 | 8:01 | 11 | 2 | ALIVE | A | 172 | |
| RR8 | 7:49 | 7:51 | 2 | 2 | ALIVE | A | 170 | |
| RR9 | 7:53 | 8:01 | 8 | 2 | ALIVE | A | 189 | |
| RS0 | 8:04 | 8:09 | 5 | 2 | ALIVE | A | 163 | |
| RS1 | 8:06 | 8:22 | 16 | 2 | ALIVE | A | 187 | |
| RS2 | 8:05 | 8:13 | 8 | 2 | ALIVE | A | 161 | |
| RS3 | 8:10 | 8:16 | 6 | 2 | ALIVE | A | 166 | |
| RS5 | 8:17 | 8:20 | 3 | 2 | DEAD | WG | 166 | |
| RS6 | 8:14 | 8:22 | 8 | 2 | ALIVE | A | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RS8 | 8:25 | 13:12 | 287 | 2 | ALIVE | TA | 161 |
| RS9 | 8:22 | . | . | 2 | ALIVE | A | 170 |
| RT0 | 8:51 | 8:56 | 5 | 2 | ALIVE | A | 140 |
| RT1 | 8:57 | 9:24 | 27 | 2 | ALIVE | A | 165 |
| RT2 | 8:34 | 9:00 | 26 | 2 | ALIVE | A | 176 |
| RT3 | 8:50 | 9:02 | 12 | 2 | ALIVE | A | 158 |
| RT4 | 8:29 | 8:40 | 11 | 2 | ALIVE | A | 173 |
| RT5 | 9:20 | 9:26 | 6 | 2 | ALIVE | A | 167 |
| RT6 | 9:28 | 9:38 | 10 | 2 | ALIVE | A | 176 |
| RT7 | 9:28 | 9:32 | 4 | 2 | ALIVE | A | 162 |
| RT8 | 7:59 | 8:01 | 2 | 2 | ALIVE | A | 174 |
| TA0 | 12:07 | 12:22 | 15 | 2 | ALIVE | A | 140 |
| TA1 | 12:14 | 12:22 | 8 | 2 | ALIVE | A | 180 |
| TA2 | 12:02 | . | . | 0 | DEAD | QZL | 176 |
| TA3 | 12:04 | 12:06 | 2 | 2 | ALIVE | A | 174 |
| TA4 | 12:38 | 12:50 | 12 | 2 | ALIVE | A | 170 |
| TA5 | 12:44 | 12:52 | 8 | 2 | ALIVE | A | 179 |
| TA6 | 12:37 | 12:44 | 7 | 2 | ALIVE | A | 175 |
| TA7 | 12:45 | 12:54 | 9 | 2 | ALIVE | A | 179 |
| TA8 | 12:39 | 12:43 | 4 | 2 | ALIVE | A | 165 |
| TA9 | 12:56 | 13:05 | 9 | 2 | ALIVE | A | 174 |
| TB0 | 12:53 | 13:05 | 12 | 2 | ALIVE | A | 165 |
| TB1 | 13:05 | 13:09 | 4 | 2 | ALIVE | A | 170 |
| TB2 | 12:54 | 13:04 | 10 | 2 | ALIVE | A | 173 |
| TB3 | 12:52 | 12:55 | 3 | 2 | ALIVE | A | 180 |
| TB4 | 15:04 | 15:08 | 4 | 2 | ALIVE | A | 153 |
| TB5 | 15:05 | 15:12 | 7 | 2 | ALIVE | A | 141 |
| TB6 | 15:09 | 15:23 | 14 | 2 | ALIVE | A | 169 |
| TB7 | 15:05 | 15:09 | 4 | 2 | ALIVE | A | 145 |
| TB8 | 15:10 | 15:32 | 22 | 2 | ALIVE | A | 154 |
| TB9 | 15:24 | 15:29 | 5 | 2 | ALIVE | A | 164 |
| TC0 | 15:30 | 15:35 | 5 | 2 | ALIVE | A | 173 |
| TC1 | 15:13 | 15:24 | 11 | 2 | ALIVE | A | 170 |
| TC2 | 15:25 | 15:30 | 5 | 2 | ALIVE | A | 186 |
| TC3 | 15:31 | 15:36 | 5 | 2 | ALIVE | A | 168 |
| TC4 | 15:51 | 15:54 | 3 | 2 | ALIVE | A | 179 |
| TC5 | 15:55 | 16:01 | 6 | 2 | ALIVE | A | 163 |
| TC6 | 15:47 | 15:51 | 4 | 2 | ALIVE | A | 167 |
| TC7 | 15:59 | 16:03 | 4 | 2 | ALIVE | A | 167 |
| TC8 | 15:54 | 15:59 | 5 | 2 | ALIVE | A | 168 |
| TC9 | 15:44 | 15:46 | 2 | 2 | ALIVE | A | 157 |
| TD0 | 15:33 | 15:36 | 3 | 2 | ALIVE | A | 172 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TD1 | 15:36 | 15:43 | 7 | 2 | ALIVE | A | 188 | |
| TD2 | 15:38 | 15:57 | 19 | 2 | ALIVE | A | 163 | |
| TD3 | 15:37 | . | . | 0 | DEAD | QZL | 157 | |
| TE9 | 12:09 | 12:12 | 3 | 2 | ALIVE | A | 186 | |
| YZ4 | 11:52 | 11:56 | 4 | 2 | ALIVE | A | 160 | |
| YZ6 | 11:59 | 12:05 | 6 | 2 | ALIVE | A | 133 | |
| YZ7 | 11:50 | 11:55 | 5 | 2 | ALIVE | A | 183 | |
| YZ8 | 12:00 | 12:02 | 2 | 2 | ALIVE | A | 178 | |
| YZ9 | 11:51 | 11:59 | 8 | 2 | ALIVE | A | 190 | |
| 18 November 1999 - Testlot 4 : PL=3, Unit 6, Hub - Water temp=52.0 C | | | | | | | | |
| RA8 | 7:40 | . | . | 0 | TAG & PIN | | 175 | |
| RA9 | 7:38 | 7:40 | 2 | 2 | ALIVE | A | 190 | |
| RB0 | 7:38 | 7:40 | 2 | 2 | ALIVE | A | 183 | |
| RB1 | 7:41 | 7:44 | 3 | 2 | ALIVE | A | 166 | |
| RB2 | 7:37 | 7:39 | 2 | 2 | ALIVE | A | 166 | |
| RB3 | 7:47 | 7:50 | 3 | 2 | ALIVE | A | 168 | |
| RB4 | 7:44 | 7:46 | 2 | 2 | ALIVE | A | 163 | |
| RB5 | 7:45 | 15:43 | 478 | 2 | ALIVE | A | 160 | |
| RB6 | 7:51 | 7:56 | 5 | 2 | ALIVE | A | 172 | |
| RB7 | 7:52 | 8:05 | 13 | 2 | ALIVE | A | 180 | |
| RB8 | 8:10 | 8:28 | 18 | 2 | ALIVE | A | 174 | |
| RB9 | 8:08 | 8:16 | 8 | 2 | ALIVE | A | 166 | |
| RC0 | 8:05 | 8:07 | 2 | 2 | ALIVE | A | 167 | |
| RC1 | 8:17 | 8:23 | 6 | 2 | ALIVE | A | 183 | |
| RC2 | 8:06 | 8:09 | 3 | 2 | ALIVE | A | 160 | |
| RC3 | 8:29 | 8:38 | 9 | 2 | ALIVE | A | 137 | |
| RC4 | 8:19 | 8:25 | 6 | 2 | ALIVE | A | 172 | |
| RC5 | 8:26 | 8:48 | 22 | 1 | ALIVE | B | 160 | |
| RC6 | 8:31 | 8:43 | 12 | 2 | ALIVE | A | 169 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| RC7 | 8:25 | 8:29 | 4 | 2 | ALIVE | A | 164 |
| RC8 | 8:54 | 9:05 | 11 | 2 | ALIVE | A | 162 |
| RC9 | 9:08 | 9:16 | 8 | 2 | ALIVE | A | 174 |
| RD0 | 8:56 | . | . | 0 | DEAD | ZL | 170 |
| RD1 | 9:07 | 9:17 | 10 | 2 | ALIVE | A | 176 |
| RD2 | 8:56 | 9:07 | 11 | 2 | ALIVE | A | 154 |
| RD3 | 9:24 | 9:26 | 2 | 2 | ALIVE | A | 173 |
| RD4 | 9:32 | 9:39 | 7 | 2 | ALIVE | A | 170 |
| RD5 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 180 |
| RD6 | 9:31 | 9:41 | 10 | 2 | ALIVE | A | 155 |
| RD7 | 9:18 | 9:27 | 9 | 2 | ALIVE | A | 130 |
| RD8 | 9:34 | 9:36 | 2 | 2 | ALIVE | A | 170 |
| RD9 | 9:42 | 9:45 | 3 | 2 | ALIVE | A | 163 |
| RE0 | 9:42 | 9:46 | 4 | 2 | ALIVE | A | 170 |
| RE1 | 9:45 | 10:06 | 21 | 2 | ALIVE | A | 170 |
| RE2 | 9:37 | 9:46 | 9 | 2 | ALIVE | A | 167 |
| RE3 | 10:00 | 10:09 | 9 | 2 | ALIVE | A | 160 |
| RE4 | 9:54 | 9:59 | 5 | 2 | ALIVE | A | 188 |
| RE5 | 9:50 | 9:53 | 3 | 2 | ALIVE | A | 172 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| RE6 | 9:59 | 10:03 | 4 | 1 | DEAD | GJB | 170 | |
| RE7 | 9:49 | 9:53 | 4 | 2 | ALIVE | A | 165 | |
| RE8 | 10:25 | 10:34 | 9 | 2 | ALIVE | A | 175 | |
| TD4 | 12:14 | 12:17 | 3 | 2 | ALIVE | A | 166 | |
| TD5 | 12:12 | 12:21 | 9 | 2 | ALIVE | A | 168 | |
| TD6 | 12:18 | 12:28 | 10 | 2 | ALIVE | A | 160 | |
| TD7 | 12:15 | 12:17 | 2 | 2 | ALIVE | A | 182 | |
| TD8 | 12:18 | 12:24 | 6 | 2 | ALIVE | A | 182 | |
| TD9 | 12:30 | 12:39 | 9 | 2 | ALIVE | A | 168 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TE0 | 12:25 | 12:29 | 4 | 2 | ALIVE | A | 166 |
| TE1 | 12:26 | 12:28 | 2 | 2 | ALIVE | A | 172 |
| TE2 | 12:29 | 12:49 | 20 | 2 | ALIVE | A | 181 |
| TE3 | 12:21 | 12:24 | 3 | 2 | ALIVE | A | 186 |
| TE4 | 12:39 | 12:46 | 7 | 2 | ALIVE | A | 180 |
| TE5 | 12:48 | 12:52 | 4 | 2 | ALIVE | A | 191 |
| TE6 | 12:33 | 12:38 | 5 | 2 | ALIVE | A | 166 |
| TE7 | 12:48 | 12:49 | 1 | 2 | ALIVE | A | 163 |
| TE8 | 12:40 | 12:46 | 6 | 2 | ALIVE | A | 130 |
| TF0 | 12:52 | 13:05 | 13 | 2 | ALIVE | A | 172 |
| TF1 | 12:57 | 13:05 | 8 | 2 | ALIVE | A | 186 |
| TF2 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 171 |
| TF3 | 12:55 | 12:57 | 2 | 2 | ALIVE | A | 182 |
| TF4 | 12:50 | 12:53 | 3 | 2 | ALIVE | A | 157 |
| TF5 | 14:39 | 14:44 | 5 | 2 | ALIVE | A | 165 |
| TF6 | 14:39 | 14:53 | 14 | 2 | ALIVE | A | 172 |
| TF7 | 14:37 | 14:46 | 9 | 2 | ALIVE | A | 173 |
| TF8 | 14:47 | 15:02 | 15 | 2 | ALIVE | A | 146 |
| TF9 | 14:45 | 14:49 | 4 | 2 | ALIVE | A | 132 |
| TH0 | 14:59 | 15:01 | 2 | 2 | ALIVE | A | 167 |
| TH1 | 14:50 | 15:02 | 12 | 2 | ALIVE | A | 166 |
| TH2 | 15:03 | 15:08 | 5 | 2 | ALIVE | A | 188 |
| TH3 | 15:04 | 15:08 | 4 | 2 | ALIVE | A | 182 |
| TH4 | 14:54 | 14:57 | 3 | 2 | ALIVE | A | 172 |
| TH5 | 15:07 | 15:10 | 3 | 2 | ALIVE | A | 152 |
| TH6 | 15:13 | 15:26 | 13 | 2 | ALIVE | A | 172 |
| TH7 | 15:08 | 15:28 | 20 | 2 | ALIVE | A | 172 |
| TH8 | 15:14 | 15:32 | 18 | 2 | ALIVE | A | 173 |
| TH9 | 15:09 | 15:11 | 2 | 2 | ALIVE | A | 163 |
| TJ0 | 15:33 | 15:36 | 3 | 2 | ALIVE | TA | 178 |
| TJ1 | 15:37 | 15:45 | 8 | 2 | ALIVE | A | 191 |
| TJ2 | 15:38 | 15:41 | 3 | 2 | ALIVE | A | 172 |
| TJ3 | 15:29 | 15:31 | 2 | 2 | ALIVE | A | 172 |
| TJ4 | 15:30 | 15:36 | 6 | 2 | ALIVE | A | 189 |
| UA0 | 10:22 | 10:25 | 3 | 2 | ALIVE | A | 158 |
| UA1 | 10:20 | 10:39 | 19 | 2 | ALIVE | A | 170 |
| UA2 | 10:29 | 10:33 | 4 | 2 | ALIVE | A | 148 |
| UA3 | 10:34 | 10:40 | 6 | 2 | ALIVE | A | 146 |
| UA4 | 10:48 | 10:50 | 2 | 2 | ALIVE | A | 177 |
| UA5 | 10:46 | 10:49 | 3 | 2 | ALIVE | A | 170 |
| UA6 | 10:45 | 10:47 | 2 | 2 | ALIVE | A | 176 |
| UA7 | 10:48 | 10:59 | 11 | 2 | ALIVE | A | 158 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UA8 | 10:49 | 10:58 | 9 | 2 | ALIVE | A | 178 | |
| UA9 | 11:20 | 11:27 | 7 | 2 | ALIVE | A | 190 | |
| UB0 | 11:02 | 11:32 | 30 | 2 | ALIVE | A | 170 | |
| UB1 | 11:03 | 11:30 | 27 | 2 | ALIVE | A | 177 | |
| UB2 | 11:04 | 11:19 | 15 | 2 | ALIVE | A | 177 | |
| UB3 | 10:53 | 11:03 | 10 | 2 | ALIVE | A | 180 | |
| UB4 | 11:29 | . | . | 0 | DEAD | P | 166 | |
| UB5 | 11:38 | 11:39 | 1 | 2 | ALIVE | A | 177 | |
| UB6 | 11:41 | 11:46 | 5 | 2 | ALIVE | A | 185 | |
| UB7 | 11:31 | 11:43 | 12 | 2 | ALIVE | A | 161 | |
| UB8 | 11:42 | 11:52 | 10 | 2 | ALIVE | A | 172 | |
| UB9 | 13:27 | 13:32 | 5 | 2 | ALIVE | A | 157 | |
| UC0 | 13:18 | 13:30 | 12 | 2 | ALIVE | A | 188 | |
| UC1 | 13:17 | 13:23 | 6 | 2 | ALIVE | A | 165 | |
| UC2 | 13:24 | 13:31 | 7 | 2 | ALIVE | A | 150 | |
| UC3 | 13:19 | 13:26 | 7 | 2 | ALIVE | A | 136 | |
| UC4 | 13:34 | 13:36 | 2 | 2 | ALIVE | A | 135 | |
| UC5 | 13:31 | 13:35 | 4 | 2 | ALIVE | A | 162 | |
| UC6 | 13:37 | 13:46 | 9 | 2 | ALIVE | A | 167 | |
| UC7 | 13:36 | 13:39 | 3 | 2 | ALIVE | A | 167 | |
| UC8 | 13:32 | 13:41 | 9 | 2 | ALIVE | A | 166 | |
| UC9 | 13:47 | 14:00 | 13 | 2 | ALIVE | A | 165 | |
| UD0 | 13:42 | 13:51 | 9 | 2 | ALIVE | A | 178 | |
| UD1 | 13:47 | 13:51 | 4 | 2 | ALIVE | A | 180 | |
| UD2 | 13:43 | 13:46 | 3 | 2 | ALIVE | A | 175 | |
| UD3 | 13:48 | 13:53 | 5 | 2 | ALIVE | A | 171 | |
| UD4 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 192 | |
| UD5 | 13:54 | 14:26 | 32 | 2 | ALIVE | A | 178 | |
| UD6 | 14:01 | 14:16 | 15 | 2 | ALIVE | A | 176 | |
| UD7 | 14:04 | 14:13 | 9 | 2 | ALIVE | A | 176 | |
| UD8 | 14:01 | 14:05 | 4 | 2 | ALIVE | A | 171 | |

20 November 1999 - Testlot 5 : PL=4, Control - Water temp=50.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TL5 | 9:29 | 9:42 | 13 | 2 | ALIVE | A | 164 |
| TL6 | 9:35 | 9:41 | 6 | 2 | ALIVE | A | 169 |
| TL7 | 9:42 | 9:53 | 11 | 2 | ALIVE | A | 135 |
| TL8 | 9:52 | 9:56 | 4 | 2 | ALIVE | A | 166 |
| TL9 | 9:54 | 10:07 | 13 | 2 | ALIVE | A | 177 |
| TM0 | 9:38 | 9:55 | 17 | 2 | ALIVE | A | 141 |
| TM1 | 9:28 | 9:37 | 9 | 2 | ALIVE | A | 145 |
| TM2 | 9:54 | 10:08 | 14 | 2 | ALIVE | A | 185 |
| TM3 | 9:45 | 9:51 | 6 | 2 | ALIVE | A | 182 |
| TM4 | 9:28 | 9:34 | 6 | 2 | ALIVE | A | 188 |
| TM5 | 10:09 | 10:15 | 6 | 2 | ALIVE | A | 148 |
| TM6 | 10:32 | 10:39 | 7 | 2 | ALIVE | A | 172 |
| TM7 | 10:28 | 10:33 | 5 | 2 | ALIVE | A | 181 |
| TM8 | 10:17 | 10:25 | 8 | 2 | ALIVE | A | 175 |
| TM9 | 10:23 | 10:30 | 7 | 2 | ALIVE | A | 178 |
| TN0 | 10:20 | 10:25 | 5 | 2 | ALIVE | A | 178 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TN1 | 9:57 | 10:00 | 3 | 2 | ALIVE | A | 171 | |
| TN2 | 10:10 | 10:24 | 14 | 2 | ALIVE | A | 172 | |
| TN3 | 10:27 | 10:32 | 5 | 2 | ALIVE | A | 186 | |
| TN4 | 10:00 | 10:19 | 19 | 2 | ALIVE | A | 192 | |
| TN5 | 12:19 | 12:26 | 7 | 2 | ALIVE | A | 172 | |
| TN6 | 11:56 | 12:02 | 6 | 2 | ALIVE | A | 194 | |
| TN7 | 12:18 | 12:21 | 3 | 2 | ALIVE | A | 180 | |
| TN8 | 12:22 | 12:26 | 4 | 2 | ALIVE | A | 167 | |
| TN9 | 11:58 | 12:15 | 17 | 2 | ALIVE | A | 169 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TP0 | 12:02 | 12:20 | 18 | 2 | ALIVE | A | 179 |
| TP1 | 12:21 | 12:38 | 17 | 2 | ALIVE | A | 175 |
| TP2 | 12:04 | 12:07 | 3 | 2 | ALIVE | A | 174 |
| TP3 | 11:57 | 11:59 | 2 | 2 | ALIVE | A | 185 |
| TP4 | 12:12 | 12:16 | 4 | 2 | ALIVE | A | 133 |
| TP5 | 12:47 | 12:49 | 2 | 2 | ALIVE | A | 187 |
| TP6 | 12:42 | 12:51 | 9 | 2 | ALIVE | A | 148 |
| TP7 | 12:50 | 12:56 | 6 | 2 | ALIVE | A | 183 |
| TP8 | 12:28 | 12:43 | 15 | 2 | ALIVE | A | 149 |
| TP9 | 12:30 | 12:41 | 11 | 2 | ALIVE | A | 188 |
| TR0 | 12:39 | 12:42 | 3 | 2 | ALIVE | A | 159 |
| TR1 | 12:27 | 12:29 | 2 | 2 | ALIVE | A | 162 |
| TR2 | 12:30 | 12:37 | 7 | 2 | ALIVE | A | 152 |
| TR3 | 12:44 | 12:45 | 1 | 2 | ALIVE | A | 172 |
| TR4 | 12:43 | 12:59 | 16 | 2 | ALIVE | A | 174 |
| UD9 | 7:34 | 7:49 | 15 | 2 | ALIVE | A | 174 |
| UE1 | 7:30 | . | . | 0 | DEAD | Z | 160 |
| UE2 | 7:50 | 7:54 | 4 | 2 | ALIVE | A | 179 |
| UE3 | 7:30 | 7:35 | 5 | 2 | ALIVE | A | 178 |
| UE4 | 7:55 | 7:57 | 2 | 2 | ALIVE | A | 136 |
| UE5 | 7:59 | 8:02 | 3 | 2 | ALIVE | A | 134 |
| UE6 | 7:53 | 8:04 | 11 | 2 | ALIVE | A | 134 |
| UE7 | 8:05 | 8:19 | 14 | 2 | ALIVE | A | 133 |
| UE8 | 8:09 | 8:21 | 12 | 2 | ALIVE | H | 163 |
| UE9 | 8:23 | 8:27 | 4 | 2 | ALIVE | A | 133 |
| UF0 | 8:28 | 8:43 | 15 | 2 | ALIVE | A | 187 |
| UF1 | 8:22 | 8:28 | 6 | 2 | ALIVE | A | 174 |
| UF2 | 8:21 | 8:23 | 2 | 2 | ALIVE | A | 165 |
| UF3 | 8:26 | 8:35 | 9 | 2 | ALIVE | A | 172 |
| UF4 | 8:44 | 9:17 | 33 | 2 | ALIVE | A | 140 |
| UF5 | 8:43 | . | . | 0 | TAG & PIN | | 175 |
| UF6 | 8:47 | 9:01 | 14 | 2 | ALIVE | A | 162 |
| UF7 | 8:31 | 8:52 | 21 | 1 | ALIVE | A | 137 |
| UF8 | 8:39 | 8:41 | 2 | 2 | ALIVE | A | 182 |
| UF9 | 10:46 | 10:52 | 6 | 2 | ALIVE | A | 169 |
| UH0 | 10:45 | 10:50 | 5 | 2 | ALIVE | A | 175 |
| UH1 | 10:50 | 11:00 | 10 | 2 | ALIVE | A | 171 |
| UH2 | 10:51 | 10:58 | 7 | 2 | ALIVE | A | 192 |
| UH3 | 10:44 | 10:49 | 5 | 2 | ALIVE | A | 134 |
| UH4 | 11:00 | 11:06 | 6 | 2 | ALIVE | A | 196 |
| UH5 | 11:01 | 11:04 | 3 | 2 | ALIVE | A | 173 |
| UH6 | 11:05 | 11:14 | 9 | 2 | ALIVE | A | 170 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UH7 | 10:54 | 11:00 | 6 | 2 | ALIVE | A | 185 | |
| UH8 | 11:03 | 11:08 | 5 | 2 | ALIVE | A | 166 | |
| UH9 | 11:16 | 11:32 | 16 | 2 | ALIVE | A | 170 | |
| UJ0 | 11:18 | 11:20 | 2 | 2 | ALIVE | A | 182 | |
| UJ1 | 11:15 | 11:28 | 13 | 2 | ALIVE | A | 176 | |
| UJ2 | 11:08 | 11:17 | 9 | 2 | ALIVE | A | 133 | |
| UJ3 | 11:09 | 11:15 | 6 | 2 | ALIVE | A | 140 | |
| UJ4 | 11:29 | 11:37 | 8 | 2 | ALIVE | A | 188 | |
| UJ5 | 11:34 | 11:38 | 4 | 2 | ALIVE | A | 187 | |
| UJ6 | 11:28 | 11:31 | 3 | 2 | ALIVE | A | 186 | |
| UJ7 | 11:32 | 11:38 | 6 | 2 | ALIVE | A | 177 | |
| UJ8 | 11:21 | 11:27 | 6 | 2 | ALIVE | A | 180 | |
| UJ9 | 13:24 | 13:28 | 4 | 2 | ALIVE | A | 165 | |
| UK0 | 13:17 | 13:40 | 23 | 2 | ALIVE | A | 155 | |
| UK1 | 13:18 | 13:20 | 2 | 2 | ALIVE | A | 139 | |
| UK2 | 13:21 | 13:23 | 2 | 2 | ALIVE | A | 172 | |
| UK3 | 13:19 | 13:40 | 21 | 2 | ALIVE | A | 176 | |
| UK4 | 13:41 | 13:45 | 4 | 2 | ALIVE | A | 185 | |
| UK5 | 13:36 | 13:39 | 3 | 2 | ALIVE | A | 173 | |
| UK6 | 13:42 | 13:47 | 5 | 2 | ALIVE | A | 187 | |
| UK7 | 13:40 | 13:45 | 5 | 2 | ALIVE | A | 175 | |
| UK8 | 13:29 | 13:35 | 6 | 2 | ALIVE | A | 161 | |
| UK9 | 14:04 | 14:10 | 6 | 2 | ALIVE | A | 195 | |
| UL0 | 13:59 | 14:10 | 11 | 2 | ALIVE | A | 170 | |
| UL1 | 13:49 | 14:03 | 14 | 2 | ALIVE | A | 158 | |
| UL2 | 13:47 | 14:12 | 25 | 2 | ALIVE | A | 179 | |
| UL3 | 13:48 | 13:58 | 10 | 2 | ALIVE | A | 178 | |
| UL4 | 14:13 | 14:21 | 8 | 2 | ALIVE | A | 175 | |
| UL5 | 14:11 | 14:15 | 4 | 2 | ALIVE | A | 170 | |
| UL6 | 14:19 | 14:27 | 8 | 2 | ALIVE | A | 181 | |
| UL7 | 14:11 | 14:17 | 6 | 2 | ALIVE | A | 187 | |
| UL8 | 14:16 | 14:34 | 18 | 2 | ALIVE | A | 178 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UL9 | 14:41 | 14:46 | 5 | 2 | ALIVE | A | 170 |
| UM0 | 14:42 | 14:56 | 14 | 2 | ALIVE | A | 168 |
| UM1 | 14:45 | 15:01 | 16 | 2 | ALIVE | A | 176 |
| UM2 | 14:46 | 14:53 | 7 | 2 | ALIVE | A | 187 |
| UM3 | 14:43 | 14:55 | 12 | 2 | ALIVE | A | 170 |
| UM4 | 15:07 | 15:12 | 5 | 2 | ALIVE | A | 190 |
| UM5 | 15:02 | 15:14 | 12 | 2 | ALIVE | A | 144 |
| UM6 | 14:58 | 15:03 | 5 | 2 | ALIVE | A | 176 |
| UM7 | 14:59 | 15:07 | 8 | 2 | ALIVE | A | 170 |
| UM8 | 15:03 | 15:09 | 6 | 2 | ALIVE | A | 142 |
| UM9 | 15:19 | 15:23 | 4 | 2 | ALIVE | A | 170 |
| UN0 | 15:23 | 15:27 | 4 | 2 | ALIVE | A | 188 |
| UN1 | 15:13 | 15:19 | 6 | 2 | ALIVE | A | 178 |
| UN2 | 15:16 | 15:22 | 6 | 2 | ALIVE | A | 188 |
| UN3 | 15:10 | 15:28 | 18 | 2 | ALIVE | A | 129 |
| UN4 | 15:32 | 15:36 | 4 | 2 | ALIVE | A | 159 |
| UN5 | 15:25 | 15:32 | 7 | 2 | ALIVE | A | 165 |
| UN6 | 15:29 | 15:32 | 3 | 2 | ALIVE | A | 175 |
| UN7 | 15:33 | 15:34 | 1 | 2 | ALIVE | A | 179 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UN8 | 15:28 | 15:32 | 4 | 2 | ALIVE | A | 141 | |
| UN9 | 14:22 | 14:35 | 13 | 2 | ALIVE | A | 168 | |
| 21 November 1999 - Testlot 6 : PL=2, Control - Water temp=50.0 C | | | | | | | | |
| TR5 | 9:37 | 9:39 | 2 | 2 | ALIVE | A | 180 | |
| TR6 | 9:40 | 9:43 | 3 | 2 | ALIVE | A | 173 | |
| TR7 | 9:32 | 9:37 | 5 | 2 | ALIVE | A | 186 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TR8 | 9:22 | 9:36 | 14 | 2 | ALIVE | A | 165 |
| TR9 | 9:15 | 9:20 | 5 | 2 | ALIVE | A | 173 |
| TS0 | 9:21 | 9:29 | 8 | 2 | ALIVE | A | 165 |
| TS1 | 9:28 | 9:30 | 2 | 2 | ALIVE | A | 166 |
| TS2 | 9:32 | 9:53 | 21 | 2 | ALIVE | A | 173 |
| TS3 | 9:14 | 9:17 | 3 | 2 | ALIVE | A | 166 |
| TS4 | 9:41 | 9:53 | 12 | 2 | ALIVE | A | 201 |
| TS5 | 10:15 | 10:19 | 4 | 2 | ALIVE | A | 170 |
| TS6 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 184 |
| TS7 | 10:00 | 10:14 | 14 | 2 | ALIVE | A | 187 |
| TS8 | 9:54 | 9:57 | 3 | 2 | ALIVE | A | 168 |
| TS9 | 10:12 | 10:21 | 9 | 2 | ALIVE | A | 174 |
| TT0 | 9:48 | 9:57 | 9 | 2 | ALIVE | A | 125 |
| TT1 | 9:59 | 10:14 | 15 | 2 | ALIVE | A | 176 |
| TT2 | 9:44 | 9:49 | 5 | 2 | ALIVE | A | 133 |
| TT3 | 10:16 | 10:38 | 22 | 2 | ALIVE | A | 184 |
| TT4 | 9:58 | 10:10 | 12 | 2 | ALIVE | A | 142 |
| U00 | 12:05 | 12:12 | 7 | 2 | ALIVE | A | 176 |
| U01 | 11:56 | 12:12 | 16 | 2 | ALIVE | A | 175 |
| U02 | 12:23 | 12:26 | 3 | 2 | ALIVE | A | 177 |
| U03 | 12:25 | 12:28 | 3 | 2 | ALIVE | A | 171 |
| U04 | 12:29 | 12:33 | 4 | 2 | ALIVE | A | 169 |
| U05 | 12:43 | 12:50 | 7 | 2 | ALIVE | A | 158 |
| U06 | 12:36 | 12:54 | 18 | 2 | ALIVE | A | 138 |
| U07 | 12:27 | 12:35 | 8 | 2 | ALIVE | A | 172 |
| U08 | 12:34 | 12:35 | 1 | 2 | ALIVE | A | 180 |
| U09 | 12:37 | 12:42 | 5 | 2 | ALIVE | A | 182 |
| U10 | 12:30 | 12:46 | 16 | 2 | ALIVE | A | 161 |
| U11 | 12:24 | 12:29 | 5 | 2 | ALIVE | A | 176 |
| U12 | 13:09 | 13:25 | 16 | 2 | ALIVE | A | 169 |
| U13 | 13:02 | 13:04 | 2 | 2 | ALIVE | A | 178 |
| U14 | 12:57 | 13:07 | 10 | 2 | ALIVE | A | 173 |
| U15 | 13:17 | 13:32 | 15 | 2 | ALIVE | A | 168 |
| U16 | 12:55 | 13:01 | 6 | 2 | ALIVE | A | 170 |
| U17 | 13:08 | 13:18 | 10 | 2 | ALIVE | A | 176 |
| U18 | 12:51 | 12:54 | 3 | 2 | ALIVE | A | 183 |
| U19 | 13:07 | 13:16 | 9 | 2 | ALIVE | A | 168 |
| U20 | 12:49 | 12:53 | 4 | 2 | ALIVE | A | 186 |
| U21 | 12:57 | 13:04 | 7 | 2 | ALIVE | A | 135 |
| U23 | 13:45 | 13:51 | 6 | 2 | ALIVE | A | 167 |
| U24 | 13:44 | 14:10 | 26 | 1 | ALIVE | B | 172 |
| U25 | 13:42 | 13:49 | 7 | 2 | ALIVE | A | 168 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| U26 | 13:50 | 13:52 | 2 | 2 | ALIVE | A | 138 | |
| U27 | 14:09 | 14:14 | 5 | 2 | ALIVE | A | 147 | |
| U28 | 14:11 | 14:29 | 18 | 2 | ALIVE | A | 169 | |
| U29 | 13:55 | 14:09 | 14 | 2 | ALIVE | A | 188 | |
| U30 | 14:12 | 14:19 | 7 | 2 | ALIVE | A | 166 | |
| U31 | 14:14 | 14:34 | 20 | 2 | ALIVE | A | 197 | |
| U32 | 14:21 | 14:34 | 13 | 2 | ALIVE | A | 132 | |
| U33 | 14:40 | 14:44 | 4 | 2 | ALIVE | A | 186 | |
| U34 | 14:36 | . | . | 0 | TAG & PIN | | 171 | |
| U35 | 14:35 | 14:39 | 4 | 2 | ALIVE | A | 167 | |
| U36 | 14:30 | 14:39 | 9 | 2 | ALIVE | A | 162 | |
| U37 | 14:49 | 14:58 | 9 | 2 | ALIVE | A | 144 | |
| U38 | 14:41 | 14:48 | 7 | 2 | ALIVE | A | 146 | |
| U39 | 14:53 | 15:04 | 11 | 2 | ALIVE | A | 170 | |
| U40 | 14:45 | 14:54 | 9 | 2 | ALIVE | A | 132 | |
| U41 | 14:55 | 15:09 | 14 | 2 | ALIVE | A | 194 | |
| U42 | 15:36 | . | . | 0 | TAG & PIN | | 176 | |
| U43 | 15:39 | 15:42 | 3 | 2 | ALIVE | A | 177 | |
| U44 | 15:40 | 15:44 | 4 | 2 | ALIVE | A | 180 | |
| U45 | 15:29 | 15:40 | 11 | 2 | ALIVE | A | 158 | |
| U46 | 15:43 | 15:48 | 5 | 2 | ALIVE | A | 177 | |
| U47 | 15:17 | 15:30 | 13 | 2 | ALIVE | A | 182 | |
| U48 | 15:14 | 15:25 | 11 | 2 | ALIVE | A | 187 | |
| U49 | 15:12 | 15:15 | 3 | 2 | ALIVE | A | 156 | |
| U50 | 15:26 | 15:36 | 10 | 2 | ALIVE | A | 197 | |
| U51 | 15:12 | 15:28 | 16 | 2 | ALIVE | A | 140 | |
| U52 | 15:49 | 15:59 | 10 | 2 | ALIVE | A | 177 | |
| U54 | 15:52 | 16:10 | 18 | 2 | ALIVE | A | 162 | |
| U55 | 15:48 | 15:53 | 5 | 2 | ALIVE | A | 193 | |
| U56 | 15:46 | 15:51 | 5 | 2 | ALIVE | A | 139 | |
| U57 | 16:18 | 16:21 | 3 | 2 | ALIVE | A | 186 | |
| U58 | 16:01 | 16:17 | 16 | 2 | ALIVE | A | 153 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U59 | 16:11 | 16:14 | 3 | 2 | ALIVE | A | 172 |
| U60 | 16:15 | 16:18 | 3 | 2 | ALIVE | A | 182 |
| U61 | 16:07 | 16:10 | 3 | 2 | ALIVE | A | 135 |
| U62 | 16:12 | 16:21 | 9 | 2 | ALIVE | A | 165 |
| UP1 | 7:40 | 7:58 | 18 | 2 | ALIVE | A | 190 |
| UP3 | 7:29 | 7:36 | 7 | 2 | ALIVE | A | 174 |
| UP4 | 7:30 | 7:52 | 22 | 2 | ALIVE | A | 131 |
| UP5 | 7:56 | 8:05 | 9 | 2 | ALIVE | A | 172 |
| UP6 | 8:07 | 8:09 | 2 | 2 | ALIVE | A | 183 |
| UP7 | 8:08 | 8:16 | 8 | 2 | ALIVE | A | 180 |
| UP8 | 7:54 | 8:05 | 11 | 2 | ALIVE | A | 135 |
| UP9 | 7:59 | 8:13 | 14 | 2 | ALIVE | A | 131 |
| UR0 | 8:11 | 8:15 | 4 | 2 | ALIVE | A | 147 |
| UR1 | 8:19 | 8:38 | 19 | 2 | ALIVE | A | 180 |
| UR2 | 8:17 | 8:20 | 3 | 2 | ALIVE | A | 166 |
| UR3 | 8:16 | 8:25 | 9 | 2 | ALIVE | A | 135 |
| UR4 | 8:22 | 8:27 | 5 | 2 | ALIVE | A | 203 |
| UR5 | 8:28 | 8:37 | 9 | 2 | ALIVE | A | 130 |
| UR6 | 8:30 | 8:36 | 6 | 2 | ALIVE | A | 180 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UR7 | 8:38 | 8:47 | 9 | 2 | ALIVE | A | 174 | |
| UR8 | 8:27 | 8:29 | 2 | 2 | ALIVE | A | 173 | |
| UR9 | 8:39 | 9:26 | 47 | 1 | ALIVE | A | 176 | |
| US0 | 10:42 | 10:57 | 15 | 2 | ALIVE | A | 163 | |
| US1 | 10:51 | 10:55 | 4 | 2 | ALIVE | A | 154 | |
| US2 | 10:43 | 10:48 | 5 | 2 | ALIVE | A | 175 | |
| US3 | 10:40 | 10:48 | 8 | 2 | ALIVE | A | 135 | |
| US4 | 10:49 | 11:08 | 19 | 2 | ALIVE | A | 137 | |
| US5 | 10:58 | 11:01 | 3 | 2 | ALIVE | A | 132 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| US6 | 11:01 | 11:11 | 10 | 2 | ALIVE | A | 170 |
| US7 | 11:03 | 11:20 | 17 | 2 | ALIVE | A | 181 |
| US8 | 11:09 | 11:21 | 12 | 2 | ALIVE | A | 181 |
| US9 | 11:02 | 11:09 | 7 | 2 | ALIVE | A | 163 |
| UT0 | 11:22 | 11:46 | 24 | 2 | ALIVE | A | 201 |
| UT1 | 11:21 | 11:29 | 8 | 2 | ALIVE | A | 125 |
| UT2 | 11:30 | 11:38 | 8 | 2 | ALIVE | A | 182 |
| UT3 | 11:10 | 11:18 | 8 | 2 | ALIVE | A | 173 |
| UT4 | 11:24 | 11:32 | 8 | 2 | ALIVE | A | 174 |
| UT6 | 11:34 | 11:39 | 5 | 2 | ALIVE | A | 142 |
| UT7 | 11:41 | 11:44 | 3 | 2 | ALIVE | A | 163 |
| UT8 | 11:49 | 12:01 | 12 | 2 | ALIVE | A | 162 |
| UT9 | 11:45 | 11:54 | 9 | 2 | ALIVE | A | 181 |

22 November 1999 - Testlot 7 : PL=3, Unit 6, Tip - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T00 | 9:39 | 9:47 | 8 | 2 | ALIVE | A | 146 |
| T01 | 9:44 | 9:56 | 12 | 2 | ALIVE | A | 135 |
| T02 | 10:02 | 10:33 | 31 | 1 | DEAD | F | 187 |
| T03 | 10:37 | 10:42 | 5 | 2 | ALIVE | A | 171 |
| T04 | 10:20 | 10:37 | 17 | 2 | ALIVE | A | 190 |
| T05 | 10:19 | 10:24 | 5 | 2 | ALIVE | A | 167 |
| T07 | 10:35 | 10:41 | 6 | 2 | ALIVE | A | 157 |
| T08 | 10:57 | 11:04 | 7 | 2 | ALIVE | A | 177 |
| T09 | 10:45 | 10:59 | 14 | 2 | ALIVE | A | 135 |
| T10 | 10:50 | 11:00 | 10 | 2 | ALIVE | A | 180 |
| T11 | 10:43 | 10:49 | 6 | 2 | ALIVE | A | 184 |
| T12 | 10:42 | 10:53 | 11 | 2 | ALIVE | A | 189 |
| T13 | 11:03 | 11:12 | 9 | 2 | ALIVE | A | 183 |
| T14 | 11:06 | 11:13 | 7 | 2 | ALIVE | TA | 180 |
| T15 | 11:09 | 11:20 | 11 | 2 | ALIVE | A | 176 |
| T16 | 11:01 | 11:03 | 2 | 2 | ALIVE | A | 178 |
| T17 | 10:59 | 11:09 | 10 | 2 | ALIVE | A | 176 |
| T18 | 11:21 | 11:41 | 20 | 2 | ALIVE | A | 185 |
| T19 | 11:13 | 11:25 | 12 | 2 | ALIVE | A | 173 |
| T20 | 11:14 | 11:25 | 11 | 2 | ALIVE | A | 173 |
| T21 | 11:26 | 11:34 | 8 | 2 | ALIVE | A | 197 |
| T22 | 11:25 | 11:28 | 3 | 2 | ALIVE | A | 187 |
| T23 | 11:43 | 11:56 | 13 | 2 | ALIVE | A | 143 |
| T24 | 11:51 | 11:56 | 5 | 2 | ALIVE | A | 184 |
| T25 | 11:43 | 11:52 | 9 | 2 | ALIVE | A | 162 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| T26 | 11:53 | 12:05 | 12 | 2 | ALIVE | A | 176 | |
| T27 | 11:44 | 11:47 | 3 | 2 | ALIVE | A | 182 | |
| T29 | 12:15 | 12:15 | 0 | 2 | ALIVE | A | 172 | |
| T30 | 11:57 | 12:06 | 9 | 2 | ALIVE | A | 169 | |
| T31 | 12:06 | 12:23 | 17 | 2 | ALIVE | A | 179 | |
| T32 | 11:58 | 12:12 | 14 | 2 | ALIVE | A | 182 | |
| T33 | 12:24 | 12:40 | 16 | 2 | ALIVE | A | 172 | |
| T34 | 12:32 | 12:44 | 12 | 2 | ALIVE | A | 185 | |
| T35 | 12:25 | 12:37 | 12 | 2 | ALIVE | A | 175 | |
| T36 | 12:21 | 12:30 | 9 | 2 | ALIVE | A | 137 | |
| T37 | 12:17 | 12:24 | 7 | 2 | ALIVE | A | 157 | |
| T38 | 13:00 | 13:09 | 9 | 2 | ALIVE | A | 176 | |
| T39 | 12:51 | 12:59 | 8 | 2 | ALIVE | A | 177 | |
| T40 | 12:48 | 12:50 | 2 | 2 | ALIVE | A | 149 | |
| T41 | 12:55 | 13:10 | 15 | 2 | ALIVE | A | 165 | |
| T42 | 12:45 | 12:59 | 14 | 2 | ALIVE | A | 132 | |
| T43 | 13:41 | 13:49 | 8 | 2 | ALIVE | A | 187 | |
| T44 | 13:22 | 13:45 | 23 | 2 | ALIVE | A | 166 | |
| T45 | 13:25 | 13:42 | 17 | 2 | ALIVE | A | 181 | |
| T46 | 13:24 | 13:40 | 16 | 2 | ALIVE | A | 180 | |
| T47 | 13:21 | 13:23 | 2 | 2 | ALIVE | A | 136 | |
| T48 | 13:45 | 14:03 | 18 | 2 | ALIVE | A | 191 | |
| T49 | 14:06 | 14:22 | 16 | 2 | ALIVE | A | 185 | |
| T50 | 14:04 | 14:14 | 10 | 2 | ALIVE | A | 175 | |
| T51 | 13:52 | 14:08 | 16 | 2 | ALIVE | A | 174 | |
| T52 | 13:43 | 14:05 | 22 | 2 | ALIVE | A | 151 | |
| T53 | 14:08 | 14:11 | 3 | 2 | ALIVE | A | 137 | |
| T54 | 14:14 | 14:28 | 14 | 2 | ALIVE | A | 175 | |
| T55 | 14:29 | 14:38 | 9 | 2 | ALIVE | A | 182 | |
| T56 | 14:16 | 14:34 | 18 | 2 | ALIVE | A | 175 | |
| T57 | 14:12 | 14:26 | 14 | 1 | ALIVE | A | 178 | |
| T58 | 14:34 | 14:57 | 23 | 2 | ALIVE | A | 173 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T59 | 15:12 | 15:24 | 12 | 2 | ALIVE | A | 190 |
| T60 | 14:39 | 15:10 | 31 | 2 | ALIVE | A | 174 |
| T61 | 15:11 | 15:25 | 14 | 2 | ALIVE | A | 184 |
| T62 | 14:58 | 15:26 | 28 | 2 | ALIVE | A | 180 |
| T63 | 14:31 | 15:11 | 40 | 2 | ALIVE | A | 183 |
| T64 | 15:36 | 15:40 | 4 | 2 | ALIVE | A | 164 |
| T65 | 15:43 | 15:49 | 6 | 2 | ALIVE | A | 172 |
| T66 | 15:50 | 15:52 | 2 | 2 | ALIVE | A | 189 |
| T67 | 15:46 | 15:53 | 7 | 2 | ALIVE | A | 162 |
| T68 | 15:34 | 15:37 | 3 | 2 | ALIVE | A | 172 |
| T69 | 15:37 | 15:40 | 3 | 2 | ALIVE | A | 169 |
| T70 | 15:35 | 15:39 | 4 | 2 | ALIVE | A | 155 |
| T71 | 15:42 | 15:44 | 2 | 2 | ALIVE | A | 190 |
| T72 | 15:45 | 15:51 | 6 | 2 | ALIVE | A | 165 |
| T73 | 15:41 | 15:42 | 1 | 2 | ALIVE | A | 188 |
| T74 | 16:04 | 16:10 | 6 | 2 | ALIVE | A | 187 |
| T75 | 16:01 | 16:14 | 13 | 2 | ALIVE | A | 174 |
| T76 | 15:53 | 16:16 | 23 | 1 | ALIVE | B | 160 |
| T77 | 15:54 | 16:01 | 7 | 2 | ALIVE | A | 169 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| T78 | 16:00 | 16:02 | 2 | 2 | ALIVE | A | 168 | |
| T79 | 15:54 | 15:57 | 3 | 2 | ALIVE | A | 153 | |
| T80 | 16:08 | 16:10 | 2 | 2 | ALIVE | A | 178 | |
| T81 | 16:11 | 16:15 | 4 | 2 | ALIVE | A | 191 | |
| T82 | 15:58 | 15:59 | 1 | 2 | ALIVE | A | 176 | |
| T83 | 16:03 | 16:04 | 1 | 2 | ALIVE | A | 196 | |
| TT5 | 13:00 | 13:13 | 13 | 2 | ALIVE | A | 166 | |
| TT6 | 12:43 | 12:49 | 6 | 2 | ALIVE | A | 167 | |
| U63 | 7:56 | 8:00 | 4 | 2 | ALIVE | A | 172 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U64 | 7:48 | 7:55 | 7 | 2 | ALIVE | A | 176 |
| U65 | 7:44 | 7:47 | 3 | 2 | ALIVE | A | 125 |
| U66 | 8:05 | 8:07 | 2 | 2 | ALIVE | A | 173 |
| U67 | 7:42 | 7:45 | 3 | 2 | ALIVE | A | 172 |
| U68 | 7:43 | 7:59 | 16 | 2 | ALIVE | A | 131 |
| U69 | 7:45 | 8:04 | 19 | 2 | ALIVE | A | 160 |
| U70 | 8:08 | 8:13 | 5 | 2 | ALIVE | A | 178 |
| U71 | 8:00 | 8:14 | 14 | 2 | ALIVE | A | 167 |
| U72 | 8:01 | 8:09 | 8 | 2 | ALIVE | A | 162 |
| U73 | 8:23 | 8:29 | 6 | 2 | ALIVE | A | 176 |
| U74 | 8:14 | 8:21 | 7 | 2 | ALIVE | A | 135 |
| U75 | 8:26 | 8:35 | 9 | 2 | ALIVE | A | 187 |
| U76 | 8:24 | 8:29 | 5 | 2 | ALIVE | A | 184 |
| U77 | 8:20 | 8:23 | 3 | 2 | ALIVE | A | 187 |
| U78 | 8:16 | 8:20 | 4 | 2 | ALIVE | A | 190 |
| U79 | 8:27 | . | . | 0 | DEAD | L | 177 |
| U80 | 8:22 | 8:25 | 3 | 2 | ALIVE | A | 174 |
| U81 | 8:11 | 8:14 | 3 | 2 | ALIVE | A | 130 |
| U82 | 8:12 | 8:21 | 9 | 2 | ALIVE | A | 184 |
| U83 | 8:54 | 9:07 | 13 | 2 | ALIVE | A | 165 |
| U84 | 8:44 | 8:51 | 7 | 2 | ALIVE | A | 135 |
| U85 | 8:52 | 8:57 | 5 | 2 | ALIVE | A | 157 |
| U86 | 8:46 | 8:53 | 7 | 2 | ALIVE | A | 140 |
| U88 | 8:58 | 9:05 | 7 | 2 | ALIVE | A | 165 |
| U89 | 9:15 | 9:24 | 9 | 2 | ALIVE | A | 178 |
| U90 | 9:06 | 9:14 | 8 | 2 | ALIVE | A | 178 |
| U91 | 9:02 | 9:22 | 20 | 2 | ALIVE | A | 161 |
| U92 | 9:08 | 9:16 | 8 | 2 | ALIVE | A | 187 |
| U93 | 9:23 | 9:32 | 9 | 2 | ALIVE | A | 139 |
| U94 | 9:36 | 9:50 | 14 | 2 | ALIVE | A | 178 |
| U95 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 167 |
| U96 | 9:29 | 9:38 | 9 | 2 | ALIVE | A | 168 |
| U97 | 9:24 | 9:46 | 22 | 2 | ALIVE | A | 168 |
| U98 | 9:48 | 10:03 | 15 | 2 | ALIVE | A | 167 |
| U99 | 9:51 | 10:01 | 10 | 2 | ALIVE | A | 190 |

23 November 1999 - Testlot 8 : PL=4, Unit 6, Hub - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T84 | 7:40 | 8:02 | 22 | 2 | ALIVE | A | 176 |
| T85 | 7:36 | 7:42 | 6 | 2 | ALIVE | A | 176 |
| T86 | 7:35 | 7:59 | 24 | 2 | ALIVE | A | 177 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| T87 | 7:43 | 7:51 | 8 | 2 | ALIVE | A | 168 | |
| T88 | 7:34 | 7:39 | 5 | 2 | ALIVE | A | 168 | |
| T89 | 8:02 | 8:12 | 10 | 2 | ALIVE | A | 182 | |
| T90 | 7:55 | 8:04 | 9 | 2 | ALIVE | A | 167 | |
| T91 | 8:05 | 8:07 | 2 | 2 | ALIVE | A | 187 | |
| T92 | 7:52 | 7:54 | 2 | 2 | ALIVE | A | 176 | |
| T93 | 8:03 | 8:08 | 5 | 2 | ALIVE | A | 172 | |
| T94 | 8:08 | 8:10 | 2 | 2 | ALIVE | A | 177 | |
| T95 | 8:14 | 8:42 | 28 | 2 | ALIVE | A | 180 | |
| T96 | 8:19 | 8:22 | 3 | 2 | ALIVE | A | 183 | |
| T97 | 8:09 | 8:18 | 9 | 2 | ALIVE | A | 172 | |
| T98 | 8:14 | 8:18 | 4 | 2 | ALIVE | A | 164 | |
| T99 | 8:26 | 8:29 | 3 | 2 | ALIVE | A | 173 | |
| TA0 | 12:02 | 12:08 | 6 | 2 | ALIVE | A | 185 | |
| TA1 | 11:59 | 12:01 | 2 | 2 | ALIVE | A | 167 | |
| TA2 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 160 | |
| TA3 | 11:57 | 11:59 | 2 | 2 | ALIVE | A | 166 | |
| TA4 | 11:53 | 11:56 | 3 | 2 | ALIVE | A | 126 | |
| TA5 | 12:20 | 12:26 | 6 | 2 | ALIVE | A | 186 | |
| TA6 | 12:16 | 12:22 | 6 | 2 | ALIVE | A | 183 | |
| TA7 | 12:18 | 12:24 | 6 | 2 | ALIVE | A | 168 | |
| TA8 | 12:15 | 12:17 | 2 | 2 | ALIVE | A | 182 | |
| TA9 | 11:13 | 12:20 | 67 | 2 | ALIVE | A | 126 | |
| TB0 | 12:23 | 12:33 | 10 | 2 | DEAD | HJ | 138 | |
| TB1 | 12:36 | 12:38 | 2 | 2 | ALIVE | A | 162 | |
| TB2 | 12:38 | 12:48 | 10 | 2 | ALIVE | A | 173 | |
| TB3 | 12:27 | 12:36 | 9 | 2 | ALIVE | A | 182 | |
| TB4 | 12:25 | 12:27 | 2 | 2 | ALIVE | A | 127 | |
| TB5 | 12:43 | 12:54 | 11 | 2 | ALIVE | A | 166 | |
| TB6 | 12:48 | 13:07 | 19 | 2 | ALIVE | A | 185 | |
| TB7 | 12:56 | 13:04 | 8 | 2 | ALIVE | A | 176 | |
| TB8 | 12:43 | 12:48 | 5 | 2 | ALIVE | H | 162 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TB9 | 12:40 | 12:42 | 2 | 2 | ALIVE | A | 166 |
| TC0 | 13:06 | 13:12 | 6 | 2 | ALIVE | A | 172 |
| TC1 | 13:08 | 13:10 | 2 | 1 | ALIVE | B | 173 |
| TC2 | 12:57 | 13:07 | 10 | 2 | ALIVE | A | 172 |
| TC3 | 13:08 | 13:23 | 15 | 2 | ALIVE | A | 168 |
| TC4 | 13:12 | 13:17 | 5 | 2 | ALIVE | A | 170 |
| TC5 | 13:35 | 13:38 | 3 | 2 | ALIVE | A | 192 |
| TC6 | 13:32 | 13:36 | 4 | 2 | ALIVE | A | 174 |
| TC7 | 13:47 | 13:59 | 12 | 2 | ALIVE | A | 183 |
| TC8 | 13:37 | 13:39 | 2 | 2 | ALIVE | A | 172 |
| TC9 | 13:33 | 13:38 | 5 | 2 | ALIVE | A | 132 |
| TD0 | 13:41 | 13:46 | 5 | 2 | ALIVE | A | 181 |
| TD1 | 13:39 | 13:46 | 7 | 2 | ALIVE | A | 198 |
| TD2 | 13:48 | 13:50 | 2 | 2 | ALIVE | A | 170 |
| TD3 | 13:31 | 13:34 | 3 | 2 | ALIVE | A | 185 |
| TD4 | 13:40 | 13:55 | 15 | 2 | ALIVE | A | 176 |
| TD5 | 14:13 | 14:17 | 4 | 2 | ALIVE | A | 171 |
| TD6 | 13:51 | 14:12 | 21 | 2 | ALIVE | A | 185 |
| TD7 | 14:09 | 14:14 | 5 | 2 | ALIVE | A | 176 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TD8 | 14:17 | 14:21 | 4 | 2 | ALIVE | A | 187 | |
| TD9 | 14:00 | 14:08 | 8 | 2 | ALIVE | A | 148 | |
| TE0 | 14:10 | 14:16 | 6 | 2 | ALIVE | A | 174 | |
| TE1 | 13:58 | 14:05 | 7 | 2 | ALIVE | A | 162 | |
| TE2 | 13:57 | 14:11 | 14 | 2 | ALIVE | A | 167 | |
| TE3 | 14:05 | 14:08 | 3 | 2 | ALIVE | A | 152 | |
| TE4 | 14:14 | 14:19 | 5 | 2 | ALIVE | A | 174 | |
| UU0 | 8:21 | 8:26 | 5 | 2 | ALIVE | A | 130 | |
| UU1 | 8:30 | 8:36 | 6 | 2 | ALIVE | A | 187 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UU2 | 8:23 | 8:25 | 2 | 2 | ALIVE | A | 175 |
| UU3 | 8:27 | 8:41 | 14 | 2 | ALIVE | A | 176 |
| UU4 | 8:50 | 8:53 | 3 | 2 | ALIVE | A | 135 |
| UU5 | 8:54 | 8:56 | 2 | 2 | ALIVE | A | 186 |
| UU6 | 8:51 | 8:58 | 7 | 2 | ALIVE | A | 132 |
| UU7 | 8:57 | 9:04 | 7 | 2 | ALIVE | A | 195 |
| UU8 | 8:52 | 9:03 | 11 | 2 | ALIVE | A | 135 |
| UU9 | 9:00 | 9:01 | 1 | 2 | ALIVE | A | 170 |
| UV0 | 9:02 | 9:17 | 15 | 2 | ALIVE | A | 150 |
| UV1 | 9:17 | 9:24 | 7 | 2 | ALIVE | A | 188 |
| UV2 | 9:04 | 9:15 | 11 | 2 | ALIVE | A | 170 |
| UV3 | 9:06 | 9:22 | 16 | 2 | ALIVE | A | 187 |
| UV5 | 9:23 | 9:36 | 13 | 2 | ALIVE | A | 162 |
| UV6 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 182 |
| UV7 | 9:34 | 9:42 | 8 | 2 | ALIVE | A | 172 |
| UV8 | 9:18 | 9:33 | 15 | 2 | ALIVE | A | 132 |
| UV9 | 9:43 | 9:46 | 3 | 2 | ALIVE | A | 181 |
| UW0 | 9:44 | 9:48 | 4 | 2 | ALIVE | A | 170 |
| UW1 | 9:39 | 9:48 | 9 | 2 | ALIVE | A | 173 |
| UW2 | 9:38 | 9:42 | 4 | 2 | ALIVE | A | 142 |
| UW3 | 9:47 | 9:50 | 3 | 2 | ALIVE | A | 205 |
| UW4 | 10:08 | 10:11 | 3 | 2 | ALIVE | A | 182 |
| UW5 | 10:10 | 10:18 | 8 | 2 | ALIVE | A | 177 |
| UW6 | 10:06 | 10:08 | 2 | 2 | ALIVE | A | 157 |
| UW7 | 10:02 | 10:05 | 3 | 2 | ALIVE | A | 178 |
| UW8 | 10:03 | 10:07 | 4 | 2 | ALIVE | A | 174 |
| UW9 | 10:00 | 10:07 | 7 | 2 | ALIVE | A | 126 |
| UX0 | 10:12 | 10:13 | 1 | 2 | ALIVE | A | 192 |
| UX1 | 10:09 | 10:15 | 6 | 2 | ALIVE | A | 161 |
| UX2 | 9:59 | 10:01 | 2 | 2 | ALIVE | A | 137 |
| UX3 | 10:00 | 10:02 | 2 | 2 | ALIVE | A | 127 |
| UX4 | 10:15 | 10:19 | 4 | 2 | ALIVE | A | 185 |
| UX5 | 10:22 | 10:26 | 4 | 2 | ALIVE | A | 139 |
| UX6 | 10:28 | 10:38 | 10 | 2 | ALIVE | A | 182 |
| UX7 | 10:30 | 10:43 | 13 | 2 | ALIVE | A | 177 |
| UX8 | 10:37 | 10:47 | 10 | 2 | ALIVE | A | 170 |
| UX9 | 10:21 | 10:25 | 4 | 2 | ALIVE | A | 127 |
| UY0 | 10:23 | 10:29 | 6 | 2 | ALIVE | A | 158 |
| UY1 | 10:26 | 10:36 | 10 | 2 | ALIVE | A | 180 |
| UY2 | 10:16 | 10:20 | 4 | 2 | ALIVE | TA | 178 |
| UY3 | 10:30 | 10:36 | 6 | 2 | ALIVE | A | 137 |
| UY4 | 11:02 | 11:07 | 5 | 2 | ALIVE | A | 177 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UY5 | 11:06 | 11:17 | 11 | 2 | ALIVE | A | 185 | |
| UY6 | 10:59 | 11:01 | 2 | 2 | ALIVE | A | 137 | |
| UY7 | 11:01 | 11:05 | 4 | 2 | ALIVE | A | 182 | |
| UY8 | 11:00 | 11:14 | 14 | 2 | ALIVE | A | 135 | |
| UY9 | 11:22 | 11:28 | 6 | 2 | ALIVE | A | 178 | |
| UZ0 | 11:16 | 11:24 | 8 | 2 | ALIVE | A | 166 | |
| UZ1 | 11:22 | 11:38 | 16 | 2 | ALIVE | A | 185 | |
| UZ2 | 11:25 | 11:28 | 3 | 2 | ALIVE | A | 173 | |
| UZ3 | 11:13 | 11:21 | 8 | 2 | ALIVE | A | 132 | |
| UZ4 | 11:43 | 11:56 | 13 | 2 | ALIVE | A | 176 | |
| UZ5 | 11:31 | 11:37 | 6 | 2 | ALIVE | A | 180 | |
| UZ6 | 11:29 | 11:31 | 2 | 2 | ALIVE | A | 170 | |
| UZ7 | 11:37 | 11:42 | 5 | 2 | ALIVE | A | 178 | |
| UZ8 | 11:38 | 11:51 | 13 | 2 | ALIVE | A | 190 | |
| UZ9 | 9:29 | 9:38 | 9 | 2 | ALIVE | A | 167 | |
| 24 November 1999 - Testlot 9 : PL=2, Unit 5, Tip - Water temp=52.0 C | | | | | | | | |
| TE5 | 7:44 | 8:03 | 19 | 2 | ALIVE | A | 179 | |
| TE6 | 7:30 | 7:44 | 14 | 2 | ALIVE | A | 178 | |
| TE7 | 7:30 | 7:39 | 9 | 2 | ALIVE | A | 188 | |
| TE8 | 7:41 | 7:55 | 14 | 2 | ALIVE | A | 176 | |
| TE9 | 7:29 | 7:41 | 12 | 2 | ALIVE | A | 179 | |
| TF0 | 8:08 | 8:20 | 12 | 1 | ALIVE | A | 171 | |
| TF1 | 7:57 | 8:22 | 25 | 2 | ALIVE | A | 181 | |
| TF2 | 7:59 | 8:07 | 8 | 2 | ALIVE | A | 172 | |
| TF3 | 8:04 | 8:15 | 11 | 2 | ALIVE | A | 165 | |
| TF4 | 8:16 | 8:33 | 17 | 2 | ALIVE | A | 162 | |
| TF6 | 8:27 | . | . | 0 | TAG & PIN | X | 152 | |
| TF7 | 9:17 | 9:23 | 6 | 2 | ALIVE | A | 170 | |
| TF8 | 8:22 | 8:45 | 23 | 2 | ALIVE | A | 166 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TF9 | 8:40 | 9:12 | 32 | 2 | DEAD | E | 171 |
| TH0 | 9:27 | 9:39 | 12 | 2 | ALIVE | A | 168 |
| TH1 | 9:24 | 9:30 | 6 | 2 | ALIVE | A | 195 |
| TH2 | 9:18 | 9:22 | 4 | 2 | ALIVE | A | 202 |
| TH3 | 9:22 | 9:26 | 4 | 2 | ALIVE | A | 178 |
| TH4 | 9:23 | 9:31 | 8 | 1 | DEAD | B | 189 |
| TH5 | 10:11 | 10:20 | 9 | 2 | ALIVE | A | 169 |
| TH6 | 10:12 | 10:24 | 12 | 2 | ALIVE | A | 168 |
| TH7 | 10:08 | 10:12 | 4 | 2 | ALIVE | A | 193 |
| TH8 | 9:57 | 10:07 | 10 | 2 | ALIVE | A | 173 |
| TH9 | 10:01 | 10:14 | 13 | 2 | ALIVE | A | 177 |
| TJ0 | 9:51 | 9:54 | 3 | 2 | ALIVE | A | 185 |
| TJ1 | 9:52 | 10:00 | 8 | 2 | ALIVE | A | 172 |
| TJ2 | 9:56 | 9:59 | 3 | 2 | ALIVE | A | 196 |
| TJ3 | 9:50 | 9:56 | 6 | 2 | ALIVE | A | 189 |
| TJ4 | 10:00 | 10:07 | 7 | 2 | ALIVE | A | 165 |
| TJ5 | 10:33 | 10:35 | 2 | 2 | ALIVE | A | 167 |
| TJ6 | 10:31 | 10:38 | 7 | 2 | ALIVE | A | 170 |
| TJ7 | 10:22 | 10:31 | 9 | 2 | ALIVE | A | 183 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TJ8 | 10:27 | 10:31 | 4 | 2 | ALIVE | A | 190 | |
| TJ9 | 10:26 | 10:30 | 4 | 2 | ALIVE | A | 187 | |
| TK0 | 10:16 | 10:22 | 6 | 2 | ALIVE | A | 191 | |
| TK1 | 10:32 | 10:39 | 7 | 2 | ALIVE | A | 140 | |
| TK2 | 10:21 | 10:25 | 4 | 2 | ALIVE | A | 181 | |
| TK3 | 10:39 | 10:46 | 7 | 2 | ALIVE | A | 165 | |
| TK4 | 10:37 | 10:43 | 6 | 2 | ALIVE | A | 175 | |
| TK5 | 11:22 | 11:27 | 5 | 2 | ALIVE | A | 183 | |
| TK6 | 11:25 | 11:28 | 3 | 2 | ALIVE | A | 167 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TK7 | 11:13 | 11:18 | 5 | 2 | ALIVE | A | 171 |
| TK8 | 11:18 | 11:24 | 6 | 2 | ALIVE | A | 176 |
| TK9 | 11:26 | 11:46 | 20 | 2 | ALIVE | A | 175 |
| TL0 | 11:06 | 11:20 | 14 | 2 | ALIVE | A | 160 |
| TL1 | 11:05 | 11:12 | 7 | 2 | ALIVE | A | 173 |
| TL2 | 11:20 | 11:28 | 8 | 2 | ALIVE | A | 145 |
| TL3 | 11:05 | 11:12 | 7 | 2 | ALIVE | A | 184 |
| TL4 | 11:14 | 11:21 | 7 | 2 | ALIVE | A | 185 |
| TL5 | 12:03 | 12:16 | 13 | 2 | ALIVE | A | 186 |
| TL6 | 11:52 | 11:57 | 5 | 2 | ALIVE | A | 187 |
| TL7 | 11:57 | 12:02 | 5 | 2 | ALIVE | A | 166 |
| TL8 | 12:05 | 12:12 | 7 | 2 | ALIVE | A | 184 |
| TL9 | 11:29 | 11:32 | 3 | 2 | ALIVE | A | 175 |
| TM0 | 12:05 | 12:14 | 9 | 2 | ALIVE | A | 152 |
| TM1 | 11:36 | 11:51 | 15 | 2 | ALIVE | A | 155 |
| TM2 | 12:02 | 12:07 | 5 | 2 | ALIVE | A | 162 |
| TM3 | 11:58 | 12:04 | 6 | 2 | ALIVE | A | 184 |
| TM4 | 11:33 | 11:38 | 5 | 2 | ALIVE | A | 186 |
| TM5 | 12:29 | 12:38 | 9 | 2 | ALIVE | A | 170 |
| TM6 | 12:30 | 12:37 | 7 | 2 | ALIVE | A | 168 |
| TM7 | 12:28 | 12:34 | 6 | 2 | ALIVE | A | 189 |
| TM8 | 12:38 | 12:46 | 8 | 2 | ALIVE | A | 177 |
| TM9 | 12:34 | 12:38 | 4 | 2 | ALIVE | A | 175 |
| TN0 | 12:40 | 12:45 | 5 | 2 | ALIVE | A | 185 |
| TN1 | 12:55 | 13:10 | 15 | 2 | ALIVE | A | 172 |
| TN2 | 12:53 | 12:57 | 4 | 2 | ALIVE | A | 196 |
| TN3 | 12:48 | 12:54 | 6 | 2 | ALIVE | A | 174 |
| TN4 | 12:46 | 12:56 | 10 | 2 | ALIVE | A | 178 |
| TN5 | 13:08 | . | . | 0 | DEAD | P | 180 |
| TN6 | 12:58 | 13:07 | 9 | 2 | ALIVE | A | 176 |
| TN7 | 13:09 | 13:17 | 8 | 2 | ALIVE | A | 150 |
| TN8 | 13:01 | 13:04 | 3 | 2 | ALIVE | A | 181 |
| TN9 | 13:15 | 13:22 | 7 | 2 | ALIVE | A | 151 |
| TP0 | 13:52 | . | . | 0 | DEAD | Z | 175 |
| TP1 | 13:50 | 14:00 | 10 | 2 | ALIVE | A | 174 |
| TP2 | 13:56 | 14:56 | 60 | 2 | ALIVE | A | 148 |
| TP3 | 13:17 | 13:46 | 29 | 1 | ALIVE | B | 174 |
| TP4 | 13:42 | 13:55 | 13 | 2 | ALIVE | A | 181 |
| TP5 | 14:47 | 14:54 | 7 | 2 | ALIVE | A | 183 |
| TP6 | 14:39 | 14:43 | 4 | 2 | ALIVE | A | 186 |
| TP7 | 14:39 | 14:46 | 7 | 2 | ALIVE | A | 171 |
| TP8 | 14:38 | 14:48 | 10 | 2 | ALIVE | A | 162 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TP9 | 14:44 | 14:56 | 12 | 2 | ALIVE | A | 166 | |
| TR0 | 15:05 | 15:17 | 12 | 2 | ALIVE | A | 175 | |
| TR1 | 14:54 | 15:17 | 23 | 2 | ALIVE | A | 165 | |
| TR2 | 14:58 | 15:03 | 5 | 1 | ALIVE | A | 165 | |
| TR3 | 14:57 | 15:04 | 7 | 2 | ALIVE | A | 170 | |
| TR4 | 14:49 | 14:57 | 8 | 2 | ALIVE | A | 169 | |
| TR5 | 15:20 | 15:23 | 3 | 2 | ALIVE | A | 171 | |
| TR6 | 15:16 | 15:20 | 4 | 2 | ALIVE | A | 178 | |
| TR7 | 15:17 | 15:25 | 8 | 2 | ALIVE | A | 175 | |
| TR8 | 15:23 | . | . | 0 | DEAD | Z | 191 | |
| TR9 | 15:20 | 15:22 | 2 | 2 | ALIVE | A | 161 | |
| TS0 | 15:28 | 15:33 | 5 | 2 | ALIVE | A | 176 | |
| TS2 | 15:38 | 15:50 | 12 | 2 | ALIVE | H | 180 | |
| TS3 | 15:37 | 15:43 | 6 | 2 | ALIVE | A | 186 | |
| TS4 | 15:26 | 15:37 | 11 | 2 | ALIVE | A | 196 | |
| TS5 | 15:54 | 15:59 | 5 | 2 | ALIVE | A | 171 | |
| TS6 | 15:55 | 15:58 | 3 | 2 | ALIVE | A | 179 | |
| TS7 | 15:53 | 15:57 | 4 | 2 | ALIVE | A | 185 | |
| TS8 | 15:50 | 16:03 | 13 | 2 | ALIVE | A | 180 | |
| TS9 | 15:47 | 15:54 | 7 | 2 | ALIVE | A | 172 | |
| TT1 | 16:00 | 16:03 | 3 | 2 | ALIVE | A | 184 | |
| TT2 | 16:08 | 16:19 | 11 | 2 | ALIVE | A | 182 | |
| TT3 | 16:07 | 16:12 | 5 | 2 | ALIVE | A | 182 | |
| TT4 | 16:00 | 16:07 | 7 | 2 | ALIVE | A | 178 | |
| TU5 | 15:04 | 15:14 | 10 | 2 | ALIVE | A | 191 | |
| TU6 | 15:34 | 15:36 | 2 | 2 | ALIVE | A | 178 | |
| 25 November 1999 - Testlot 10 : PL=3, Control - Water temp=12.0 C | | | | | | | | |
| AA0 | 11:48 | 11:50 | 2 | 2 | ALIVE | A | 177 | |
| AA1 | 11:58 | 12:02 | 4 | 2 | ALIVE | A | 190 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AA2 | 11:51 | 11:55 | 4 | 2 | ALIVE | A | 165 |
| AA3 | 11:53 | 12:00 | 7 | 2 | ALIVE | A | 184 |
| AA4 | 11:54 | 11:57 | 3 | 2 | ALIVE | A | 189 |
| AA5 | 11:49 | 11:53 | 4 | 2 | ALIVE | A | 186 |
| AA6 | 11:55 | 11:58 | 3 | 2 | ALIVE | A | 170 |
| AA7 | 11:56 | 11:58 | 2 | 2 | ALIVE | A | 190 |
| AA8 | 12:04 | 12:06 | 2 | 2 | ALIVE | A | 141 |
| AA9 | 12:13 | 12:16 | 3 | 2 | ALIVE | A | 159 |
| AB0 | 12:01 | 12:05 | 4 | 2 | ALIVE | A | 171 |
| AB1 | 12:09 | 12:13 | 4 | 2 | ALIVE | A | 175 |
| AB2 | 12:01 | 12:04 | 3 | 2 | ALIVE | A | 169 |
| AB3 | 12:08 | 12:12 | 4 | 2 | ALIVE | A | 164 |
| AB4 | 12:06 | 12:08 | 2 | 2 | ALIVE | A | 136 |
| AB5 | 12:04 | 12:07 | 3 | 2 | ALIVE | A | 172 |
| AB6 | 12:07 | 12:16 | 9 | 2 | ALIVE | A | 179 |
| AB7 | 12:00 | 12:03 | 3 | 2 | ALIVE | A | 181 |
| AB8 | 12:16 | 12:20 | 4 | 2 | ALIVE | A | 140 |
| AB9 | 12:20 | 12:23 | 3 | 2 | ALIVE | A | 165 |
| AC0 | 12:17 | 12:19 | 2 | 2 | ALIVE | A | 166 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| AC1 | 12:15 | 12:19 | 4 | 2 | ALIVE | A | 194 | |
| AC2 | 12:20 | 12:24 | 4 | 2 | ALIVE | A | 202 | |
| AC3 | 12:25 | 12:31 | 6 | 2 | ALIVE | A | 194 | |
| AC4 | 12:24 | 12:33 | 9 | 2 | ALIVE | A | 172 | |
| AC5 | 12:34 | 12:38 | 4 | 2 | ALIVE | A | 168 | |
| AC6 | 12:32 | 12:35 | 3 | 2 | ALIVE | A | 137 | |
| AC7 | 12:26 | 12:34 | 8 | 2 | ALIVE | A | 185 | |
| AC8 | 12:39 | 12:43 | 4 | 2 | ALIVE | A | 182 | |
| AC9 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 169 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AD0 | 12:48 | 12:51 | 3 | 2 | ALIVE | A | 172 |
| AD1 | 12:38 | 12:40 | 2 | 2 | ALIVE | A | 176 |
| AD2 | 12:46 | 12:50 | 4 | 2 | ALIVE | A | 182 |
| AD3 | 12:40 | 12:44 | 4 | 2 | ALIVE | A | 163 |
| AD4 | 12:35 | 12:37 | 2 | 2 | ALIVE | A | 137 |
| AD5 | 12:51 | 12:53 | 2 | 2 | ALIVE | A | 176 |
| AD6 | 12:36 | 12:56 | 20 | 2 | ALIVE | A | 186 |
| AD7 | 12:43 | 12:50 | 7 | 2 | ALIVE | A | 174 |
| AD8 | 13:12 | 13:21 | 9 | 2 | ALIVE | A | 137 |
| AD9 | 13:14 | 13:21 | 7 | 2 | ALIVE | A | 182 |
| AE0 | 13:09 | 13:11 | 2 | 2 | ALIVE | A | 166 |
| AE1 | 13:09 | 13:14 | 5 | 2 | ALIVE | A | 176 |
| AE2 | 13:09 | 13:13 | 4 | 2 | ALIVE | A | 182 |
| AE3 | 13:22 | 13:27 | 5 | 2 | ALIVE | A | 146 |
| AE4 | 13:16 | . | . | 0 | TAG & PIN | X | 178 |
| AE5 | 13:22 | 13:25 | 3 | 2 | ALIVE | A | 180 |
| AE6 | 13:27 | 13:35 | 8 | 2 | ALIVE | A | 180 |
| AE7 | 13:24 | 13:39 | 15 | 2 | ALIVE | A | 170 |
| AE8 | 13:53 | 14:01 | 8 | 2 | ALIVE | A | 179 |
| AE9 | 13:45 | 14:02 | 17 | 2 | ALIVE | A | 175 |
| AF0 | 13:37 | 13:44 | 7 | 2 | ALIVE | A | 184 |
| AF1 | 13:39 | 13:53 | 14 | 2 | ALIVE | A | 155 |
| AF2 | 13:44 | 15:52 | 128 | 2 | ALIVE | A | 178 |
| AF3 | 13:56 | 14:03 | 7 | 2 | ALIVE | A | 165 |
| AF4 | 14:04 | 14:14 | 10 | 2 | ALIVE | A | 180 |
| AF5 | 14:17 | 14:19 | 2 | 2 | ALIVE | A | 174 |
| AF6 | 14:02 | 14:11 | 9 | 2 | ALIVE | A | 177 |
| AF7 | 14:03 | 14:09 | 6 | 2 | ALIVE | A | 161 |
| AF8 | 14:18 | 14:33 | 15 | 2 | ALIVE | A | 169 |
| TT6 | 7:53 | 8:02 | 9 | 2 | ALIVE | A | 153 |
| TT7 | 7:43 | 7:52 | 9 | 2 | ALIVE | A | 180 |
| TT8 | 8:01 | 8:01 | 0 | 2 | ALIVE | A | 183 |
| TT9 | 7:41 | 7:54 | 13 | 2 | ALIVE | A | 180 |
| TU0 | 8:10 | 8:17 | 7 | 2 | ALIVE | A | 182 |
| TU1 | 8:03 | 8:12 | 9 | 2 | ALIVE | A | 182 |
| TU2 | 8:02 | 8:09 | 7 | 2 | ALIVE | A | 179 |
| TU3 | 8:12 | 8:16 | 4 | 2 | ALIVE | A | 177 |
| TU4 | 8:13 | 8:27 | 14 | 2 | ALIVE | A | 176 |
| TU7 | 8:19 | 8:26 | 7 | 2 | ALIVE | A | 185 |
| TU8 | 8:28 | 8:36 | 8 | 2 | ALIVE | A | 146 |
| TU9 | 8:26 | 8:35 | 9 | 2 | ALIVE | A | 182 |
| TV0 | 8:36 | 8:55 | 19 | 2 | ALIVE | A | 169 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TV1 | 8:37 | 8:41 | 4 | 2 | ALIVE | A | 173 | |
| TV2 | 8:51 | 8:59 | 8 | 2 | ALIVE | A | 166 | |
| TV3 | 8:43 | 8:50 | 7 | 2 | ALIVE | A | 185 | |
| TV4 | 8:57 | 9:11 | 14 | 2 | ALIVE | A | 175 | |
| TV5 | 8:59 | 9:08 | 9 | 2 | ALIVE | A | 167 | |
| TV6 | 9:08 | 9:21 | 13 | 2 | ALIVE | A | 185 | |
| TV7 | 9:23 | 9:26 | 3 | 2 | ALIVE | A | 184 | |
| TV8 | 9:15 | 9:23 | 8 | 2 | ALIVE | A | 174 | |
| TV9 | 9:14 | 9:20 | 6 | 1 | DEAD | EB | 175 | |
| TW0 | 9:24 | 9:29 | 5 | 2 | ALIVE | A | 176 | |
| TW1 | 9:23 | 9:33 | 10 | 2 | DEAD | F | 170 | |
| TW2 | 9:35 | 9:40 | 5 | 2 | ALIVE | A | 182 | |
| TW3 | 9:30 | 9:34 | 4 | 2 | ALIVE | A | 181 | |
| TW4 | 9:40 | . | . | 0 | UNKNOWN | X | 172 | |
| TW5 | 9:28 | 9:48 | 20 | 2 | ALIVE | N | 181 | |
| TW6 | 9:36 | 9:40 | 4 | 2 | ALIVE | A | 185 | |
| TW7 | 9:45 | 9:48 | 3 | 2 | ALIVE | A | 166 | |
| TW8 | 9:53 | 9:56 | 3 | 2 | ALIVE | A | 194 | |
| TW9 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 180 | |
| TX0 | 9:52 | 9:57 | 5 | 2 | ALIVE | A | 178 | |
| TX1 | 9:45 | 9:53 | 8 | 2 | ALIVE | A | 183 | |
| TX2 | 10:07 | 10:10 | 3 | 2 | ALIVE | A | 144 | |
| TX3 | 10:04 | 10:09 | 5 | 2 | ALIVE | A | 175 | |
| TX4 | 10:03 | 10:06 | 3 | 2 | ALIVE | A | 178 | |
| TX5 | 9:58 | 10:02 | 4 | 2 | ALIVE | A | 157 | |
| TX6 | 9:57 | 10:02 | 5 | 2 | ALIVE | A | 172 | |
| TX7 | 10:33 | 10:37 | 4 | 2 | ALIVE | A | 201 | |
| TX9 | 10:35 | 10:41 | 6 | 2 | ALIVE | A | 145 | |
| TY0 | 10:28 | 10:38 | 10 | 2 | ALIVE | A | 164 | |
| TY1 | 10:27 | 10:34 | 7 | 2 | ALIVE | A | 171 | |
| TY2 | 10:40 | 10:45 | 5 | 2 | ALIVE | A | 187 | |
| TY3 | 10:42 | 10:47 | 5 | 2 | ALIVE | A | 170 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TY4 | 10:47 | 10:50 | 3 | 2 | ALIVE | A | 175 |
| TY5 | 10:42 | 10:55 | 13 | 2 | ALIVE | A | 180 |
| TY6 | 10:50 | 10:55 | 5 | 2 | ALIVE | A | 180 |
| TY7 | 10:55 | 10:59 | 4 | 2 | ALIVE | A | 145 |
| TY8 | 10:58 | 11:00 | 2 | 2 | ALIVE | A | 174 |
| TY9 | 11:00 | 11:04 | 4 | 2 | ALIVE | A | 185 |
| TZ0 | 10:56 | 11:04 | 8 | 2 | ALIVE | A | 184 |
| TZ1 | 11:01 | 11:09 | 8 | 2 | ALIVE | A | 173 |
| TZ2 | 11:14 | 11:18 | 4 | 2 | ALIVE | A | 160 |
| TZ3 | 11:11 | 11:24 | 13 | 2 | ALIVE | A | 182 |
| TZ4 | 11:04 | 11:11 | 7 | 2 | ALIVE | A | 181 |
| TZ5 | 11:05 | 11:09 | 4 | 2 | ALIVE | A | 181 |
| TZ6 | 11:10 | 11:13 | 3 | 2 | ALIVE | A | 151 |
| TZ7 | 10:29 | 10:41 | 12 | 2 | ALIVE | A | 139 |
| TZ8 | 11:47 | 11:50 | 3 | 2 | ALIVE | A | 167 |
| TZ9 | 11:51 | 11:52 | 1 | 2 | ALIVE | A | 136 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 26 November 1999 - Testlot 11 : PL=1, Control - Water temp=11.0 C | | | | | | | | |
| AF9 | 8:13 | 8:17 | 4 | 2 | ALIVE | A | 176 | |
| AH0 | 8:18 | 8:21 | 3 | 2 | ALIVE | A | 178 | |
| AH1 | 7:45 | 7:49 | 4 | 2 | ALIVE | A | 167 | |
| AH2 | 7:48 | 8:21 | 33 | 2 | ALIVE | A | 192 | |
| AH3 | 7:44 | 7:57 | 13 | 2 | ALIVE | A | 184 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AH4 | 7:43 | 7:49 | 6 | 2 | ALIVE | A | 189 |
| AH5 | 7:58 | 8:02 | 4 | 2 | ALIVE | A | 180 |
| AH6 | 8:03 | 8:08 | 5 | 2 | ALIVE | A | 157 |
| AH7 | 7:50 | 8:24 | 34 | 2 | ALIVE | A | 200 |
| AH8 | 8:09 | 8:12 | 3 | 2 | ALIVE | A | 182 |
| AH9 | 8:41 | 8:45 | 4 | 2 | ALIVE | A | 180 |
| AJ0 | 8:30 | 8:33 | 3 | 2 | ALIVE | A | 176 |
| AJ1 | 8:36 | 8:38 | 2 | 2 | ALIVE | A | 135 |
| AJ2 | 8:30 | 8:38 | 8 | 0 | UNKNOWN | X | 187 |
| AJ3 | 8:38 | 8:40 | 2 | 2 | ALIVE | A | 177 |
| AJ4 | 8:22 | 8:31 | 9 | 2 | ALIVE | A | 164 |
| AJ5 | 8:41 | 8:44 | 3 | 2 | ALIVE | A | 180 |
| AJ6 | 8:44 | 8:49 | 5 | 2 | ALIVE | A | 181 |
| AJ7 | 8:32 | 8:36 | 4 | 2 | ALIVE | A | 172 |
| AJ8 | 8:34 | 8:37 | 3 | 2 | ALIVE | A | 167 |
| AK0 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 186 |
| AK1 | 9:20 | 9:32 | 12 | 2 | ALIVE | A | 173 |
| AK2 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 181 |
| AK3 | 9:20 | 9:28 | 8 | 2 | ALIVE | A | 172 |
| AK4 | 9:35 | 9:38 | 3 | 2 | ALIVE | H | 156 |
| AK5 | 9:40 | 9:45 | 5 | 2 | ALIVE | A | 182 |
| AK6 | 9:34 | 9:38 | 4 | 2 | ALIVE | A | 171 |
| AK7 | 9:39 | 9:43 | 4 | 2 | ALIVE | A | 190 |
| AK8 | 9:31 | 9:34 | 3 | 2 | ALIVE | A | 185 |
| AK9 | 9:51 | 9:58 | 7 | 2 | ALIVE | H | 140 |
| AL0 | 9:52 | 9:55 | 3 | 2 | ALIVE | A | 195 |
| AL1 | 9:44 | 9:46 | 2 | 2 | ALIVE | A | 182 |
| AL2 | 9:48 | 9:54 | 6 | 2 | ALIVE | A | 175 |
| AL3 | 9:46 | 9:50 | 4 | 2 | ALIVE | A | 177 |
| AL4 | 9:58 | 10:02 | 4 | 2 | ALIVE | A | 176 |
| AL5 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 174 |
| AL6 | 9:56 | 10:00 | 4 | 2 | ALIVE | A | 137 |
| AL7 | 9:59 | 10:06 | 7 | 2 | ALIVE | A | 153 |
| AL8 | 10:00 | 10:07 | 7 | 2 | ALIVE | A | 192 |
| AL9 | 10:38 | 10:40 | 2 | 2 | ALIVE | A | 171 |
| AM0 | 10:28 | 10:35 | 7 | 2 | ALIVE | A | 171 |
| AM1 | 10:22 | 10:32 | 10 | 2 | ALIVE | | 179 |
| AM2 | 10:32 | 10:38 | 6 | 2 | ALIVE | A | 136 |
| AM3 | 10:35 | 10:38 | 3 | 2 | ALIVE | A | 142 |
| AM4 | 10:15 | 10:19 | 4 | 2 | ALIVE | A | 169 |
| AM5 | 10:19 | 10:27 | 8 | 2 | ALIVE | A | 191 |
| AM6 | 10:16 | 10:18 | 2 | 2 | ALIVE | A | 179 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| AM7 | 10:15 | 10:20 | 5 | 2 | ALIVE | A | 177 | |
| AM8 | 10:21 | 10:44 | 23 | 2 | ALIVE | A | 172 | |
| AM9 | 10:46 | 10:49 | 3 | 2 | ALIVE | A | 175 | |
| AN0 | 10:48 | 10:53 | 5 | 2 | ALIVE | A | 178 | |
| AN1 | 10:40 | 10:45 | 5 | 2 | ALIVE | A | 166 | |
| AN2 | 10:41 | 10:45 | 4 | 2 | ALIVE | A | 175 | |
| AN3 | 10:44 | 10:47 | 3 | 2 | DEAD | F | 193 | |
| AN4 | 10:50 | 10:52 | 2 | 2 | DEAD | A | 171 | |
| AN5 | 10:50 | . | . | 0 | UNKNOWN | X | 184 | |
| AN6 | 10:54 | 11:03 | 9 | 2 | ALIVE | A | 175 | |
| AN7 | 11:04 | 11:16 | 12 | 2 | ALIVE | A | 165 | |
| AN8 | 10:53 | 11:09 | 16 | 2 | ALIVE | A | 135 | |
| AN9 | 11:33 | 11:35 | 2 | 2 | ALIVE | A | 184 | |
| AP0 | 11:37 | 11:45 | 8 | 2 | ALIVE | A | 182 | |
| AP1 | 11:26 | 11:28 | 2 | 2 | ALIVE | A | 179 | |
| AP2 | 11:29 | 11:31 | 2 | 2 | ALIVE | A | 179 | |
| AP3 | 11:38 | 11:42 | 4 | 2 | ALIVE | A | 175 | |
| AP4 | 11:32 | 11:37 | 5 | 2 | ALIVE | A | 180 | |
| AP5 | 11:35 | 11:43 | 8 | 2 | ALIVE | A | 178 | |
| AP6 | 11:26 | 11:29 | 3 | 2 | ALIVE | A | 165 | |
| AP7 | 11:43 | 11:47 | 4 | 2 | ALIVE | A | 155 | |
| AP8 | 11:29 | 11:36 | 7 | 2 | ALIVE | A | 135 | |
| AP9 | 12:02 | 12:08 | 6 | 2 | ALIVE | A | 175 | |
| AR0 | 12:12 | 12:16 | 4 | 2 | ALIVE | A | 171 | |
| AR1 | 11:45 | 11:50 | 5 | 2 | ALIVE | A | 160 | |
| AR2 | 12:11 | 12:16 | 5 | 2 | ALIVE | A | 176 | |
| AR3 | 12:09 | 12:11 | 2 | 2 | ALIVE | A | 144 | |
| AR4 | 11:52 | 11:59 | 7 | 2 | ALIVE | A | 186 | |
| AR5 | 11:51 | 12:05 | 14 | 2 | ALIVE | A | 182 | |
| AR6 | 12:06 | 12:11 | 5 | 2 | ALIVE | A | 175 | |
| AR7 | 11:48 | 11:51 | 3 | 2 | ALIVE | A | 180 | |
| AR8 | 11:46 | 12:00 | 14 | 2 | ALIVE | A | 141 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AR9 | 12:24 | 12:29 | 5 | 2 | ALIVE | A | 181 |
| AS0 | 12:28 | 12:35 | 7 | 2 | ALIVE | A | 190 |
| AS1 | 12:24 | 12:39 | 15 | 2 | ALIVE | A | 177 |
| AS2 | 12:29 | 12:36 | 7 | 2 | ALIVE | A | 166 |
| AS3 | 12:23 | 12:27 | 4 | 2 | ALIVE | A | 188 |
| AS4 | 12:46 | 12:53 | 7 | 2 | ALIVE | A | 181 |
| AS5 | 12:40 | 13:08 | 28 | 2 | ALIVE | A | 175 |
| AS6 | 12:49 | 12:54 | 5 | 2 | ALIVE | A | 135 |
| AS7 | 12:37 | 12:45 | 8 | 2 | ALIVE | A | 189 |
| AS8 | 12:36 | 12:48 | 12 | 2 | ALIVE | A | 195 |
| AS9 | 13:03 | 13:16 | 13 | 2 | ALIVE | A | 184 |
| AT0 | 12:53 | 13:03 | 10 | 2 | ALIVE | A | 190 |
| AT1 | 13:08 | 13:14 | 6 | 2 | ALIVE | A | 184 |
| AT2 | 12:55 | 13:01 | 6 | 2 | ALIVE | A | 178 |
| AT3 | 13:02 | 13:09 | 7 | 2 | ALIVE | A | 195 |
| AT4 | 13:16 | 13:20 | 4 | 2 | ALIVE | A | 188 |
| AT5 | 13:15 | 13:25 | 10 | 2 | ALIVE | A | 180 |
| AT6 | 13:20 | 13:30 | 10 | 2 | ALIVE | A | 180 |
| AT7 | 13:12 | 13:17 | 5 | 2 | ALIVE | A | 177 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| AT8 | 13:18 | 13:21 | 3 | 2 | ALIVE | A | 136 | |
| AT9 | 13:39 | 13:40 | 1 | 2 | ALIVE | A | 178 | |
| AU0 | 13:45 | 13:51 | 6 | 2 | ALIVE | A | 135 | |
| AU1 | 13:41 | 13:52 | 11 | 2 | ALIVE | A | 174 | |
| AU2 | 13:39 | . | . | 0 | TAG & PIN | | 184 | |
| AU3 | 13:38 | 13:44 | 6 | 2 | ALIVE | A | 153 | |
| AU4 | 13:52 | 13:57 | 5 | 2 | ALIVE | A | 186 | |
| AU5 | 13:58 | 14:31 | 33 | 2 | ALIVE | A | 182 | |
| AU6 | 14:12 | 14:17 | 5 | 2 | ALIVE | A | 188 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AU7 | 13:54 | 13:58 | 4 | 2 | ALIVE | A | 188 |
| AU8 | 14:00 | 14:14 | 14 | 2 | ALIVE | A | 171 |
| AU9 | 14:17 | 14:27 | 10 | 2 | ALIVE | A | 180 |
| AV0 | 14:28 | 14:32 | 4 | 2 | ALIVE | A | 176 |
| AV1 | 14:24 | 14:28 | 4 | 1 | DEAD | BG | 182 |
| AV2 | 14:22 | 14:30 | 8 | 2 | ALIVE | A | 143 |
| AV3 | 14:31 | 14:34 | 3 | 2 | ALIVE | A | 175 |
| AV4 | 14:37 | 14:40 | 3 | 2 | ALIVE | A | 128 |
| AV5 | 14:33 | 14:35 | 2 | 2 | ALIVE | HN | 153 |
| AV6 | 14:38 | 14:41 | 3 | 2 | ALIVE | A | 155 |
| AV7 | 14:32 | 14:35 | 3 | 2 | ALIVE | A | 160 |
| AV8 | 14:34 | 14:38 | 4 | 2 | ALIVE | A | 185 |
| AV9 | 14:35 | 14:39 | 4 | 2 | ALIVE | A | 186 |

27 November 1999 - Testlot 12 : PL=2, Unit 5, Hub - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A00 | 10:16 | 10:20 | 4 | 2 | ALIVE | A | 185 |
| A01 | 10:19 | 10:24 | 5 | 2 | ALIVE | A | 169 |
| A02 | 10:13 | 10:23 | 10 | 2 | ALIVE | A | 172 |
| A03 | 10:14 | 10:18 | 4 | 2 | ALIVE | A | 167 |
| A04 | 10:13 | 10:15 | 2 | 2 | ALIVE | A | 135 |
| A05 | 10:24 | 10:56 | 32 | 2 | ALIVE | A | 126 |
| A06 | 10:43 | 10:54 | 11 | 2 | ALIVE | A | 186 |
| A08 | 10:38 | 10:43 | 5 | 2 | ALIVE | A | 175 |
| A09 | 10:25 | 10:41 | 16 | 2 | ALIVE | A | 166 |
| A10 | 10:55 | 11:00 | 5 | 2 | ALIVE | A | 167 |
| A11 | 10:59 | 11:09 | 10 | 2 | ALIVE | A | 129 |
| A12 | 11:00 | 11:08 | 8 | 2 | ALIVE | A | 134 |
| A13 | 10:45 | 10:57 | 12 | 2 | ALIVE | A | 178 |
| A14 | 10:46 | 11:09 | 23 | 2 | ALIVE | A | 183 |
| A15 | 11:10 | 11:25 | 15 | 2 | ALIVE | A | 183 |
| A16 | 11:10 | 11:14 | 4 | 2 | ALIVE | A | 177 |
| A17 | 11:15 | 11:25 | 10 | 2 | ALIVE | A | 172 |
| A18 | 11:06 | 11:14 | 8 | 2 | ALIVE | A | 165 |
| A19 | 11:15 | 11:25 | 10 | 2 | ALIVE | A | 170 |
| A20 | 11:34 | 11:40 | 6 | 2 | ALIVE | A | 170 |
| A21 | 11:37 | 11:41 | 4 | 2 | ALIVE | A | 167 |
| A22 | 11:33 | 11:52 | 19 | 2 | ALIVE | A | 172 |
| A23 | 11:40 | 11:45 | 5 | 2 | ALIVE | A | 164 |
| A24 | 11:29 | 11:33 | 4 | 2 | ALIVE | A | 188 |
| A25 | 11:53 | 11:55 | 2 | 2 | ALIVE | A | 170 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| A26 | 11:43 | 11:58 | 15 | 2 | ALIVE | A | 171 | |
| A27 | 11:46 | 11:51 | 5 | 2 | ALIVE | A | 136 | |
| A28 | 11:52 | 11:58 | 6 | 2 | ALIVE | A | 128 | |
| A29 | 11:56 | 11:59 | 3 | 2 | ALIVE | A | 136 | |
| A30 | 12:00 | 12:08 | 8 | 2 | ALIVE | A | 187 | |
| A31 | 12:04 | 12:15 | 11 | 2 | ALIVE | A | 172 | |
| A32 | 12:13 | 12:29 | 16 | 2 | ALIVE | A | 181 | |
| A33 | 11:59 | 12:11 | 12 | 2 | ALIVE | A | 204 | |
| A34 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 175 | |
| A35 | 12:35 | 12:48 | 13 | 2 | ALIVE | A | 130 | |
| A36 | 12:27 | 12:36 | 9 | 2 | ALIVE | A | 165 | |
| A37 | 12:18 | 12:26 | 8 | 2 | ALIVE | A | 181 | |
| A38 | 12:31 | 12:35 | 4 | 2 | ALIVE | A | 182 | |
| A39 | 12:33 | 12:41 | 8 | 2 | ALIVE | A | 189 | |
| A40 | 13:17 | 13:28 | 11 | 2 | ALIVE | A | 170 | |
| A41 | 12:57 | 12:59 | 2 | 2 | ALIVE | A | 174 | |
| A42 | 13:00 | 13:13 | 13 | 2 | ALIVE | A | 162 | |
| A43 | 12:58 | 13:03 | 5 | 2 | ALIVE | A | 176 | |
| A44 | 13:18 | 13:23 | 5 | 2 | ALIVE | A | 170 | |
| A45 | 13:12 | 13:16 | 4 | 2 | ALIVE | A | 177 | |
| A46 | 13:14 | 13:24 | 10 | 2 | ALIVE | A | 181 | |
| A47 | 13:04 | 13:16 | 12 | 2 | ALIVE | A | 189 | |
| A48 | 13:02 | 13:12 | 10 | 2 | ALIVE | A | 132 | |
| A49 | 12:57 | 13:01 | 4 | 2 | ALIVE | A | 127 | |
| A50 | 13:43 | 13:45 | 2 | 2 | ALIVE | A | 172 | |
| A51 | 13:24 | 13:33 | 9 | 2 | ALIVE | A | 139 | |
| A52 | 13:29 | 13:33 | 4 | 2 | ALIVE | A | 175 | |
| A53 | 13:34 | 13:42 | 8 | 2 | ALIVE | A | 175 | |
| A54 | 13:28 | 13:31 | 3 | 2 | ALIVE | A | 182 | |
| A55 | 13:44 | 13:48 | 4 | 2 | ALIVE | A | 201 | |
| A56 | 13:32 | 13:39 | 7 | 2 | ALIVE | A | 168 | |
| A57 | 13:23 | 13:27 | 4 | 2 | ALIVE | A | 162 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A58 | 13:42 | 13:45 | 3 | 2 | ALIVE | A | 176 |
| A59 | 13:39 | 13:43 | 4 | 2 | ALIVE | A | 131 |
| A60 | 13:35 | 13:41 | 6 | 2 | ALIVE | A | 204 |
| A61 | 13:57 | 14:04 | 7 | 2 | ALIVE | A | 190 |
| A62 | 13:58 | 14:08 | 10 | 2 | ALIVE | A | 163 |
| A63 | 14:05 | 14:14 | 9 | 2 | ALIVE | A | 180 |
| A64 | 13:59 | 14:03 | 4 | 2 | ALIVE | A | 185 |
| A65 | 14:05 | 14:13 | 8 | 2 | ALIVE | A | 182 |
| A66 | 14:14 | 14:18 | 4 | 2 | ALIVE | A | 180 |
| A67 | 14:15 | 14:18 | 3 | 2 | ALIVE | A | 160 |
| A68 | 14:09 | 14:16 | 7 | 2 | ALIVE | A | 186 |
| A69 | 14:16 | 14:23 | 7 | 2 | ALIVE | A | 183 |
| A70 | 14:18 | 14:30 | 12 | 2 | ALIVE | A | 187 |
| A71 | 14:31 | 14:37 | 6 | 2 | ALIVE | A | 180 |
| A72 | 14:24 | 14:27 | 3 | 2 | ALIVE | A | 191 |
| A73 | 14:28 | 14:41 | 13 | 2 | ALIVE | A | 185 |
| A74 | 14:21 | 14:27 | 6 | 2 | ALIVE | A | 176 |
| A75 | 14:27 | 14:33 | 6 | 2 | ALIVE | A | 176 |
| A76 | 14:41 | 14:43 | 2 | 2 | ALIVE | A | 171 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| A77 | 14:42 | 14:59 | 17 | 1 | ALIVE | B | 177 | |
| A78 | 14:34 | 14:37 | 3 | 2 | ALIVE | A | 131 | |
| A79 | 14:38 | 14:40 | 2 | 2 | ALIVE | A | 169 | |
| A80 | 14:38 | 14:43 | 5 | 2 | DEAD | J | 202 | |
| A81 | 12:27 | 12:32 | 5 | 2 | ALIVE | A | 182 | |
| AW0 | 7:50 | 7:53 | 3 | 2 | ALIVE | A | 180 | |
| AW1 | 7:48 | 7:51 | 3 | 2 | ALIVE | A | 188 | |
| AW2 | 7:51 | 8:00 | 9 | 2 | ALIVE | A | 186 | |
| AW3 | 7:29 | 7:45 | 16 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AW4 | 7:28 | 7:45 | 17 | 2 | ALIVE | A | 177 |
| AW5 | 7:37 | 7:44 | 7 | 2 | ALIVE | A | 167 |
| AW6 | 7:28 | 7:36 | 8 | 2 | ALIVE | A | 164 |
| AW7 | 7:45 | 7:48 | 3 | 2 | ALIVE | A | 165 |
| AW8 | 7:46 | 7:49 | 3 | 2 | ALIVE | A | 172 |
| AW9 | 7:47 | 7:50 | 3 | 2 | ALIVE | A | 165 |
| AX0 | 8:01 | 8:05 | 4 | 2 | ALIVE | A | 160 |
| AX1 | 8:13 | 8:18 | 5 | 2 | ALIVE | A | 167 |
| AX2 | 7:53 | 7:59 | 6 | 2 | ALIVE | A | 167 |
| AX4 | 8:00 | 8:04 | 4 | 2 | ALIVE | A | 160 |
| AX5 | 8:06 | 8:10 | 4 | 2 | ALIVE | A | 164 |
| AX6 | 8:10 | 8:18 | 8 | 2 | ALIVE | A | 170 |
| AX7 | 8:17 | 8:32 | 15 | 2 | ALIVE | A | 165 |
| AX8 | 8:02 | 8:12 | 10 | 2 | ALIVE | A | 182 |
| AX9 | 7:54 | 8:01 | 7 | 2 | ALIVE | A | 173 |
| AY0 | 8:57 | 9:08 | 11 | 2 | ALIVE | A | 175 |
| AY1 | 8:51 | 8:59 | 8 | 2 | ALIVE | A | 205 |
| AY2 | 8:50 | 8:56 | 6 | 2 | ALIVE | A | 138 |
| AY3 | 8:51 | 8:54 | 3 | 2 | ALIVE | A | 141 |
| AY4 | 8:55 | . | . | 0 | TAG & PIN | | 125 |
| AY5 | 9:16 | 9:31 | 15 | 2 | ALIVE | A | 193 |
| AY6 | 9:18 | 9:24 | 6 | 2 | ALIVE | A | 170 |
| AY7 | 9:09 | 9:17 | 8 | 2 | ALIVE | A | 136 |
| AY8 | 9:00 | 9:09 | 9 | 2 | ALIVE | A | 180 |
| AY9 | 9:32 | 9:48 | 16 | 2 | ALIVE | A | 166 |
| AZ0 | 9:38 | 9:55 | 17 | 2 | ALIVE | A | 167 |
| AZ1 | 9:25 | 9:31 | 6 | 2 | ALIVE | A | 146 |
| AZ2 | 9:10 | 9:23 | 13 | 2 | ALIVE | A | 192 |
| AZ3 | 9:24 | 9:37 | 13 | 2 | ALIVE | A | 179 |
| AZ4 | 9:32 | 9:41 | 9 | 2 | ALIVE | A | 171 |
| AZ5 | 9:54 | 10:05 | 11 | 2 | ALIVE | A | 170 |
| AZ6 | 9:41 | 9:46 | 5 | 2 | ALIVE | A | 175 |
| AZ7 | 9:45 | 9:54 | 9 | 2 | ALIVE | A | 176 |
| AZ8 | 9:48 | 9:58 | 10 | 2 | ALIVE | A | 170 |
| AZ9 | 9:55 | 10:01 | 6 | 2 | ALIVE | A | 183 |

28 November 1999 - Testlot 13 : PL=1, Control - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A82 | 7:24 | 7:34 | 10 | 2 | ALIVE | A | 167 |
| A83 | 7:34 | 7:41 | 7 | 2 | ALIVE | A | 192 |
| A84 | 7:34 | 7:39 | 5 | 2 | ALIVE | A | 152 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| A85 | 7:41 | 7:46 | 5 | 2 | ALIVE | A | 184 | |
| A86 | 7:47 | 7:50 | 3 | 2 | ALIVE | A | 134 | |
| A87 | 7:40 | 7:46 | 6 | 2 | ALIVE | A | 195 | |
| A88 | 7:46 | 7:51 | 5 | 2 | ALIVE | A | 200 | |
| A89 | 7:25 | 7:45 | 20 | 2 | ALIVE | A | 184 | |
| A90 | 7:26 | 7:28 | 2 | 2 | ALIVE | A | 178 | |
| A91 | 7:29 | 7:33 | 4 | 2 | ALIVE | A | 179 | |
| A92 | 8:02 | 8:09 | 7 | 2 | ALIVE | A | 177 | |
| A93 | 7:51 | 7:54 | 3 | 2 | ALIVE | A | 148 | |
| A94 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 169 | |
| A95 | 8:09 | 8:12 | 3 | 2 | ALIVE | A | 140 | |
| A96 | 7:49 | 8:01 | 12 | 2 | ALIVE | A | 178 | |
| A97 | 8:05 | 8:10 | 5 | 2 | ALIVE | A | 161 | |
| A98 | 7:54 | 8:03 | 9 | 2 | ALIVE | A | 132 | |
| A99 | 8:07 | 8:13 | 6 | 2 | ALIVE | A | 178 | |
| TT7 | 10:41 | 10:48 | 7 | 2 | ALIVE | A | 185 | |
| TU0 | 7:50 | 8:02 | 12 | 2 | ALIVE | A | 135 | |
| TU1 | 8:04 | 8:07 | 3 | 2 | ALIVE | A | 171 | |
| TU2 | 8:27 | 8:31 | 4 | 2 | ALIVE | A | 184 | |
| TU3 | 8:20 | 8:23 | 3 | 2 | ALIVE | A | 170 | |
| TU4 | 8:25 | 8:28 | 3 | 2 | ALIVE | A | 175 | |
| TU5 | 8:21 | 8:26 | 5 | 2 | ALIVE | A | 176 | |
| TU6 | 8:24 | 8:28 | 4 | 2 | ALIVE | A | 177 | |
| TU7 | 8:40 | 8:45 | 5 | 2 | ALIVE | A | 190 | |
| TU8 | 8:44 | 8:48 | 4 | 2 | ALIVE | A | 139 | |
| TU9 | 8:32 | 8:43 | 11 | 2 | ALIVE | A | 174 | |
| TV0 | 8:31 | 8:39 | 8 | 2 | ALIVE | A | 138 | |
| TV1 | 8:30 | 8:49 | 19 | 2 | ALIVE | A | 179 | |
| TV2 | 8:49 | 8:58 | 9 | 2 | ALIVE | A | 162 | |
| TV3 | 8:59 | 9:07 | 8 | 2 | ALIVE | A | 176 | |
| TV4 | 8:47 | 8:55 | 8 | 2 | ALIVE | A | 137 | |
| TV5 | 8:49 | 8:58 | 9 | 2 | ALIVE | A | 160 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TV6 | 8:55 | 9:03 | 8 | 2 | ALIVE | A | 147 |
| TV7 | 9:08 | 9:14 | 6 | 2 | ALIVE | A | 189 |
| TV8 | 9:02 | 9:05 | 3 | 2 | ALIVE | A | 199 |
| TV9 | 9:09 | 9:14 | 5 | 2 | ALIVE | A | 185 |
| TW0 | 9:06 | 9:09 | 3 | 2 | ALIVE | A | 160 |
| TW1 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 146 |
| TW2 | 9:44 | 9:50 | 6 | 2 | ALIVE | A | 180 |
| TW3 | 9:20 | 9:36 | 16 | 2 | ALIVE | A | 195 |
| TW4 | 9:20 | 9:42 | 22 | 2 | ALIVE | A | 162 |
| TW5 | 9:25 | 9:42 | 17 | 2 | ALIVE | A | 183 |
| TW6 | 9:21 | 9:43 | 22 | 2 | ALIVE | A | 160 |
| TW7 | 9:45 | 9:51 | 6 | 2 | ALIVE | A | 193 |
| TW8 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 170 |
| TW9 | 9:46 | 9:52 | 6 | 2 | ALIVE | H | 183 |
| TX0 | 9:51 | 9:59 | 8 | 2 | ALIVE | A | 168 |
| TX1 | 9:52 | 9:55 | 3 | 2 | ALIVE | A | 186 |
| TX2 | 10:03 | 10:09 | 6 | 2 | ALIVE | A | 131 |
| TX3 | 9:57 | 9:59 | 2 | 2 | ALIVE | A | 133 |
| TX4 | 9:59 | 10:02 | 3 | 2 | ALIVE | A | 178 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| TX5 | 10:01 | 10:08 | 7 | 2 | ALIVE | A | 180 | |
| TX6 | 10:01 | 10:07 | 6 | 2 | ALIVE | A | 185 | |
| TX7 | 10:10 | 10:13 | 3 | 2 | DEAD | E | 179 | |
| TX8 | 10:15 | 10:19 | 4 | 2 | ALIVE | A | 178 | |
| TX9 | 10:07 | 10:18 | 11 | 2 | ALIVE | A | 165 | |
| TY0 | 10:07 | 10:11 | 4 | 2 | ALIVE | A | 175 | |
| TY1 | 10:12 | 10:14 | 2 | 2 | ALIVE | A | 152 | |
| TY2 | 10:43 | 10:47 | 4 | 2 | ALIVE | A | 178 | |
| TY3 | 10:32 | 10:40 | 8 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TY4 | 10:45 | 10:50 | 5 | 2 | ALIVE | A | 134 |
| TY5 | 10:35 | 10:40 | 5 | 2 | ALIVE | A | 206 |
| TY6 | 10:42 | 10:44 | 2 | 2 | ALIVE | A | 167 |
| TY7 | 10:33 | 10:35 | 2 | 2 | ALIVE | A | 166 |
| TY8 | 10:47 | 10:49 | 2 | 2 | ALIVE | A | 181 |
| TY9 | 10:51 | 10:55 | 4 | 2 | ALIVE | A | 174 |
| TZ0 | 10:32 | 10:34 | 2 | 2 | ALIVE | A | 163 |
| TZ1 | 10:36 | 10:40 | 4 | 2 | ALIVE | A | 191 |
| TZ2 | 10:57 | 10:59 | 2 | 2 | ALIVE | A | 170 |
| TZ3 | 10:55 | 11:00 | 5 | 2 | ALIVE | A | 182 |
| TZ4 | 10:53 | 10:57 | 4 | 2 | ALIVE | A | 185 |
| TZ6 | 11:00 | 11:03 | 3 | 2 | ALIVE | A | 179 |
| TZ7 | 10:58 | 11:01 | 3 | 2 | ALIVE | A | 175 |
| TZ8 | 10:49 | 10:52 | 3 | 2 | ALIVE | A | 182 |
| TZ9 | 10:57 | 11:02 | 5 | 2 | ALIVE | A | 134 |
| V00 | 10:53 | 10:56 | 3 | 2 | ALIVE | A | 135 |
| V01 | 10:49 | 10:53 | 4 | 2 | ALIVE | A | 177 |
| V02 | 11:18 | 11:24 | 6 | 2 | ALIVE | A | 175 |
| V03 | 11:17 | 11:23 | 6 | 2 | ALIVE | A | 196 |
| V04 | 11:24 | 11:28 | 4 | 2 | ALIVE | A | 170 |
| V05 | 11:23 | 11:27 | 4 | 2 | ALIVE | A | 166 |
| V06 | 11:17 | 11:25 | 8 | 2 | ALIVE | A | 182 |
| V07 | 11:35 | 11:49 | 14 | 2 | ALIVE | A | 169 |
| V08 | 11:28 | 11:33 | 5 | 2 | ALIVE | A | 173 |
| V09 | 11:27 | 11:34 | 7 | 2 | ALIVE | A | 190 |
| V10 | 11:37 | 11:43 | 6 | 2 | ALIVE | A | 187 |
| V11 | 11:27 | 11:36 | 9 | 2 | ALIVE | A | 170 |
| V12 | 11:42 | 11:45 | 3 | 2 | ALIVE | A | 188 |
| V13 | 11:43 | 11:45 | 2 | 2 | ALIVE | A | 135 |
| V14 | 11:39 | 11:41 | 2 | 2 | ALIVE | A | 177 |
| V15 | 11:47 | 11:50 | 3 | 2 | ALIVE | A | 193 |
| V16 | 11:45 | 11:49 | 4 | 2 | ALIVE | A | 168 |
| V18 | 11:51 | 11:58 | 7 | 2 | ALIVE | A | 175 |
| V19 | 11:58 | 12:06 | 8 | 2 | ALIVE | A | 188 |
| V20 | 11:50 | 11:55 | 5 | 2 | ALIVE | A | 185 |
| V21 | 11:54 | 12:00 | 6 | 2 | ALIVE | A | 136 |
| V22 | 12:29 | 12:37 | 8 | 2 | ALIVE | A | 173 |
| V23 | 12:38 | 12:41 | 3 | 2 | ALIVE | A | 176 |
| V24 | 12:35 | 12:41 | 6 | 2 | ALIVE | A | 136 |
| V25 | 12:30 | 12:38 | 8 | 2 | ALIVE | A | 176 |
| V26 | 12:29 | 12:34 | 5 | 2 | ALIVE | A | 165 |
| V27 | 12:42 | 12:53 | 11 | 2 | ALIVE | A | 195 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| V28 | 12:46 | 12:50 | 4 | 2 | ALIVE | A | 166 | |
| V29 | 12:42 | 12:45 | 3 | 2 | ALIVE | A | 178 | |
| V30 | 12:40 | 12:44 | 4 | 2 | ALIVE | A | 204 | |
| V31 | 12:45 | 12:47 | 2 | 2 | ALIVE | A | 182 | |
| V32 | 12:48 | 12:52 | 4 | 2 | ALIVE | A | 175 | |
| V33 | 12:57 | 13:00 | 3 | 2 | ALIVE | A | 188 | |
| V34 | 12:54 | 12:58 | 4 | 2 | ALIVE | A | 176 | |
| V36 | 12:50 | 12:57 | 7 | 2 | ALIVE | A | 178 | |
| V37 | 12:59 | 13:02 | 3 | 2 | ALIVE | A | 187 | |
| V38 | 12:58 | . | . | 0 | DEAD | P | 175 | |
| V39 | 13:01 | 13:03 | 2 | 2 | ALIVE | A | 134 | |
| V40 | 13:04 | 13:08 | 4 | 2 | ALIVE | A | 142 | |
| V41 | 13:02 | 13:07 | 5 | 2 | ALIVE | A | 182 | |
| V42 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 150 | |
| V43 | 13:12 | 13:20 | 8 | 2 | ALIVE | A | 176 | |
| 29 November 1999 - Testlot 14 : PL=3, Unit 5, Mid - Water temp=50.0 C | | | | | | | | |
| BA0 | 7:36 | 7:49 | 13 | 2 | ALIVE | A | 171 | |
| BA1 | 7:26 | 7:36 | 10 | 2 | ALIVE | A | 192 | |
| BA3 | 7:29 | 7:45 | 16 | 2 | ALIVE | A | 154 | |
| BA4 | 7:26 | 7:35 | 9 | 2 | ALIVE | A | 185 | |
| BA5 | 7:45 | 7:49 | 4 | 2 | ALIVE | A | 179 | |
| BA6 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 172 | |
| BA7 | 7:38 | 7:45 | 7 | 2 | ALIVE | A | 145 | |
| BA8 | 7:50 | 8:01 | 11 | 2 | ALIVE | A | 167 | |
| BA9 | 7:46 | 7:56 | 10 | 2 | ALIVE | A | 174 | |
| BB0 | 8:01 | 8:05 | 4 | 2 | ALIVE | A | 190 | |
| BB1 | 8:00 | 8:11 | 11 | 2 | ALIVE | A | 178 | |
| BB2 | 7:56 | 8:00 | 4 | 2 | ALIVE | A | 179 | |
| BB3 | 7:58 | 8:04 | 6 | 2 | ALIVE | A | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BB4 | 7:53 | 7:57 | 4 | 2 | ALIVE | A | 135 |
| BB5 | 8:04 | 8:12 | 8 | 2 | ALIVE | A | 163 |
| BB6 | 8:17 | 8:20 | 3 | 2 | ALIVE | A | 164 |
| BB7 | 8:12 | 8:17 | 5 | 2 | ALIVE | A | 176 |
| BB8 | 8:13 | 8:21 | 8 | 2 | ALIVE | A | 166 |
| BB9 | 8:06 | 8:09 | 3 | 2 | ALIVE | A | 173 |
| BC0 | 8:34 | 8:38 | 4 | 2 | ALIVE | A | 146 |
| BC1 | 8:34 | 8:43 | 9 | 2 | ALIVE | A | 183 |
| BC2 | 8:35 | 8:49 | 14 | 2 | ALIVE | A | 172 |
| BC3 | 8:39 | 8:49 | 10 | 2 | ALIVE | A | 140 |
| BC4 | 8:44 | 8:52 | 8 | 2 | ALIVE | A | 143 |
| BC5 | 8:51 | 9:00 | 9 | 2 | ALIVE | A | 181 |
| BC6 | 8:59 | 9:20 | 21 | 2 | ALIVE | A | 169 |
| BC7 | 8:58 | 9:01 | 3 | 2 | ALIVE | A | 167 |
| BC8 | 8:50 | 8:58 | 8 | 2 | ALIVE | A | 171 |
| BC9 | 8:53 | 8:57 | 4 | 2 | ALIVE | A | 168 |
| BD0 | 9:11 | 9:28 | 17 | 2 | ALIVE | A | 171 |
| BD1 | 9:02 | 9:10 | 8 | 2 | ALIVE | A | 176 |
| BD2 | 9:05 | 9:10 | 5 | 2 | ALIVE | A | 178 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| BD3 | 9:01 | 9:04 | 3 | 2 | DEAD | J | 184 | |
| BD4 | 9:11 | 9:20 | 9 | 2 | ALIVE | A | 158 | |
| BD5 | 9:30 | 9:36 | 6 | 2 | ALIVE | A | 155 | |
| BD6 | 9:21 | 9:27 | 6 | 2 | ALIVE | A | 185 | |
| BD7 | 9:36 | 9:45 | 9 | 2 | ALIVE | A | 202 | |
| BD8 | 9:29 | 9:36 | 7 | 2 | ALIVE | A | 127 | |
| BD9 | 9:21 | 9:35 | 14 | 2 | ALIVE | A | 165 | |
| BE0 | 10:08 | 10:11 | 3 | 2 | ALIVE | A | 170 | |
| BE1 | 9:52 | 9:57 | 5 | 2 | ALIVE | A | 171 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BE2 | 9:52 | 9:57 | 5 | 2 | ALIVE | A | 180 |
| BE3 | 9:59 | 10:07 | 8 | 2 | ALIVE | A | 176 |
| BE4 | 9:51 | 9:59 | 8 | 2 | ALIVE | A | 184 |
| BE5 | 10:00 | 10:06 | 6 | 2 | ALIVE | A | 186 |
| BE6 | 10:05 | 10:07 | 2 | 2 | ALIVE | A | 183 |
| BE7 | 10:07 | 10:11 | 4 | 2 | ALIVE | A | 170 |
| BE8 | 10:02 | 10:08 | 6 | 2 | ALIVE | A | 202 |
| BE9 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 147 |
| BF0 | 10:21 | 10:26 | 5 | 2 | ALIVE | A | 168 |
| BF1 | 10:12 | 10:15 | 3 | 2 | ALIVE | A | 141 |
| BF2 | 10:27 | 10:30 | 3 | 2 | ALIVE | A | 165 |
| BF3 | 10:11 | 10:19 | 8 | 2 | ALIVE | A | 180 |
| BF4 | 10:23 | 10:25 | 2 | 2 | ALIVE | A | 182 |
| BF5 | 10:10 | 10:18 | 8 | 2 | ALIVE | A | 178 |
| BF6 | 10:26 | 10:31 | 5 | 2 | ALIVE | A | 146 |
| BF7 | 10:19 | 10:27 | 8 | 2 | ALIVE | A | 163 |
| BF8 | 10:28 | 10:31 | 3 | 2 | ALIVE | A | 169 |
| BF9 | 10:15 | 10:22 | 7 | 2 | ALIVE | A | 180 |
| BH0 | 10:38 | 10:41 | 3 | 2 | ALIVE | A | 194 |
| BH1 | 10:49 | 11:06 | 17 | 2 | ALIVE | A | 174 |
| BH2 | 10:55 | 10:58 | 3 | 2 | ALIVE | A | 134 |
| BH3 | 10:42 | 10:45 | 3 | 2 | ALIVE | A | 180 |
| BH4 | 10:46 | 10:54 | 8 | 2 | ALIVE | A | 170 |
| BH5 | 10:36 | 10:47 | 11 | 2 | ALIVE | A | 178 |
| BH6 | 10:32 | 10:36 | 4 | 2 | ALIVE | A | 182 |
| BH7 | 10:34 | 10:37 | 3 | 2 | ALIVE | A | 173 |
| BH8 | 10:31 | 10:33 | 2 | 2 | ALIVE | A | 174 |
| BH9 | 10:37 | 11:03 | 26 | 2 | ALIVE | A | 184 |
| BJ0 | 11:08 | 11:12 | 4 | 2 | ALIVE | A | 176 |
| BJ1 | 11:23 | 11:27 | 4 | 2 | ALIVE | A | 184 |
| BJ2 | 11:25 | 11:31 | 6 | 2 | ALIVE | A | 197 |
| BJ3 | 11:07 | 11:12 | 5 | 2 | ALIVE | A | 194 |
| BJ4 | 11:14 | 11:23 | 9 | 2 | ALIVE | A | 192 |
| BJ5 | 11:18 | 11:20 | 2 | 2 | ALIVE | A | 189 |
| BJ6 | 11:13 | 11:22 | 9 | 2 | ALIVE | A | 170 |
| BJ7 | 10:59 | 11:04 | 5 | 2 | ALIVE | A | 175 |
| BJ8 | 11:21 | 11:37 | 16 | 2 | ALIVE | A | 177 |
| BJ9 | 11:04 | 11:08 | 4 | 2 | ALIVE | A | 179 |
| BK0 | 11:47 | 11:51 | 4 | 2 | ALIVE | A | 183 |
| BK1 | 11:51 | 11:57 | 6 | 2 | ALIVE | A | 185 |
| BK2 | 11:45 | 11:53 | 8 | 2 | ALIVE | A | 184 |
| BK3 | 11:52 | 11:56 | 4 | 2 | ALIVE | A | 170 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| BK4 | 11:46 | 11:50 | 4 | 2 | ALIVE | A | 162 | |
| BK5 | 11:56 | 12:23 | 27 | 2 | ALIVE | A | 188 | |
| BK6 | 12:10 | 12:29 | 19 | 2 | ALIVE | A | 169 | |
| BK7 | 11:54 | 12:08 | 14 | 2 | ALIVE | A | 189 | |
| BK8 | 11:57 | 12:09 | 12 | 2 | ALIVE | A | 160 | |
| BL0 | 12:53 | 13:10 | 17 | 2 | ALIVE | A | 183 | |
| BL1 | 12:24 | 12:44 | 20 | 2 | ALIVE | A | 174 | |
| BL2 | 12:54 | 13:00 | 6 | 2 | ALIVE | A | 165 | |
| BL3 | 12:51 | 12:58 | 7 | 2 | ALIVE | A | 173 | |
| BL4 | 12:31 | 12:50 | 19 | 2 | ALIVE | A | 171 | |
| BL5 | 13:00 | 13:08 | 8 | 2 | ALIVE | A | 180 | |
| BL6 | 13:08 | 13:11 | 3 | 2 | ALIVE | A | 176 | |
| BL7 | 13:04 | 13:13 | 9 | 2 | ALIVE | A | 133 | |
| BL8 | 12:59 | 13:04 | 5 | 2 | ALIVE | A | 173 | |
| BL9 | 13:12 | 13:24 | 12 | 2 | ALIVE | A | 180 | |
| BM0 | 13:42 | 13:49 | 7 | 2 | ALIVE | A | 172 | |
| BM1 | 13:40 | 13:48 | 8 | 2 | ALIVE | A | 179 | |
| BM2 | 13:49 | 13:53 | 4 | 2 | ALIVE | A | 186 | |
| BM3 | 13:48 | . | . | 0 | TAG & PIN | | 183 | |
| BM4 | 13:45 | 13:59 | 14 | 2 | ALIVE | A | 177 | |
| BM5 | 13:27 | 13:38 | 11 | 2 | ALIVE | A | 171 | |
| BM6 | 13:37 | 13:44 | 7 | 2 | ALIVE | A | 190 | |
| BM7 | 13:28 | 13:37 | 9 | 2 | ALIVE | A | 184 | |
| BM8 | 13:35 | 13:41 | 6 | 2 | ALIVE | A | 160 | |
| BM9 | 13:28 | 13:34 | 6 | 2 | ALIVE | A | 190 | |
| BN0 | 14:14 | 14:21 | 7 | 2 | ALIVE | A | 131 | |
| BN1 | 13:51 | 14:03 | 12 | 2 | ALIVE | A | 130 | |
| BN2 | 13:53 | 13:58 | 5 | 2 | ALIVE | A | 176 | |
| BN3 | 14:18 | 14:25 | 7 | 2 | ALIVE | A | 166 | |
| BN4 | 14:14 | 14:19 | 5 | 2 | ALIVE | A | 180 | |
| BN5 | 14:30 | 14:37 | 7 | 2 | ALIVE | A | 186 | |
| BN6 | 14:26 | 14:32 | 6 | 2 | ALIVE | A | 127 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BN7 | 14:19 | 14:26 | 7 | 2 | ALIVE | A | 131 |
| BN8 | 14:23 | 14:30 | 7 | 2 | ALIVE | A | 175 |
| BN9 | 14:28 | 14:46 | 18 | 2 | ALIVE | A | 176 |
| V44 | 8:10 | 8:18 | 8 | 2 | ALIVE | A | 185 |
| V45 | 13:10 | 13:16 | 6 | 2 | ALIVE | A | 181 |

30 November 1999 - Testlot 15 : PL=1, Unit 6, Tip - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B00 | 12:17 | 12:22 | 5 | 2 | ALIVE | A | 184 |
| B01 | 12:22 | 12:30 | 8 | 2 | ALIVE | A | 181 |
| B02 | 12:16 | 12:23 | 7 | 2 | ALIVE | A | 199 |
| B03 | 12:25 | 12:27 | 2 | 2 | ALIVE | A | 170 |
| B04 | 12:17 | 12:23 | 6 | 2 | ALIVE | A | 149 |
| B05 | 12:41 | 12:46 | 5 | 2 | ALIVE | A | 175 |
| B06 | 12:38 | 12:41 | 3 | 2 | ALIVE | A | 193 |
| B07 | 12:38 | 12:44 | 6 | 2 | ALIVE | A | 187 |
| B08 | 12:43 | 12:48 | 5 | 2 | ALIVE | A | 175 |
| B09 | 12:37 | 12:46 | 9 | 2 | ALIVE | A | 181 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| B10 | 12:48 | 13:00 | 12 | 2 | ALIVE | A | 169 | |
| B11 | 12:53 | 13:03 | 10 | 2 | ALIVE | A | 190 | |
| B12 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 190 | |
| B13 | 12:48 | 12:52 | 4 | 2 | ALIVE | A | 188 | |
| B14 | 12:47 | 12:53 | 6 | 2 | ALIVE | A | 150 | |
| B15 | 13:08 | 13:16 | 8 | 2 | ALIVE | A | 190 | |
| B16 | 13:03 | 13:08 | 5 | 2 | ALIVE | A | 182 | |
| B17 | 13:06 | 13:09 | 3 | 2 | ALIVE | H | 180 | |
| B18 | 13:01 | 13:05 | 4 | 2 | ALIVE | A | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B19 | 12:56 | 13:08 | 12 | 2 | ALIVE | A | 179 |
| B20 | 13:09 | 13:15 | 6 | 2 | ALIVE | A | 165 |
| B21 | 13:15 | 13:33 | 18 | 2 | ALIVE | A | 192 |
| B22 | 13:16 | 13:19 | 3 | 2 | ALIVE | A | 195 |
| B23 | 13:10 | 13:15 | 5 | 2 | ALIVE | A | 185 |
| B24 | 13:17 | 13:21 | 4 | 2 | ALIVE | A | 128 |
| B25 | 13:25 | 13:28 | 3 | 2 | ALIVE | A | 190 |
| B26 | 13:21 | 13:24 | 3 | 2 | ALIVE | A | 178 |
| B27 | 13:28 | 13:35 | 7 | 2 | ALIVE | A | 180 |
| B28 | 13:24 | 13:27 | 3 | 2 | ALIVE | A | 171 |
| B29 | 13:19 | 13:24 | 5 | 2 | ALIVE | A | 175 |
| BP0 | 7:30 | 7:36 | 6 | 2 | ALIVE | A | 176 |
| BP1 | 7:30 | 7:35 | 5 | 2 | ALIVE | A | 187 |
| BP2 | 7:41 | 8:00 | 19 | 2 | ALIVE | A | 172 |
| BP3 | 7:49 | 7:58 | 9 | 2 | ALIVE | A | 186 |
| BP4 | 7:35 | 7:38 | 3 | 2 | ALIVE | A | 170 |
| BP5 | 7:38 | 7:50 | 12 | 2 | ALIVE | A | 183 |
| BP6 | 7:50 | 7:54 | 4 | 2 | ALIVE | A | 165 |
| BP7 | 7:31 | 7:49 | 18 | 2 | ALIVE | A | 184 |
| BP8 | 7:54 | 7:58 | 4 | 2 | ALIVE | A | 185 |
| BP9 | 7:36 | 7:40 | 4 | 2 | ALIVE | A | 183 |
| BR0 | 7:58 | 8:01 | 3 | 2 | ALIVE | A | 190 |
| BR1 | 8:07 | 8:10 | 3 | 2 | ALIVE | A | 149 |
| BR2 | 8:05 | 8:08 | 3 | 2 | ALIVE | A | 133 |
| BR3 | 7:59 | 8:01 | 2 | 2 | ALIVE | A | 189 |
| BR4 | 8:08 | 8:14 | 6 | 2 | ALIVE | A | 196 |
| BR5 | 8:02 | 8:07 | 5 | 2 | ALIVE | A | 195 |
| BR6 | 8:02 | 8:07 | 5 | 2 | ALIVE | A | 176 |
| BR7 | 8:13 | 8:16 | 3 | 2 | ALIVE | A | 170 |
| BR8 | 8:11 | 8:14 | 3 | 2 | ALIVE | A | 182 |
| BR9 | 8:10 | 8:20 | 10 | 2 | ALIVE | A | 139 |
| BS0 | 8:28 | 8:35 | 7 | 2 | ALIVE | A | 195 |
| BS1 | 8:33 | 8:41 | 8 | 2 | ALIVE | A | 180 |
| BS2 | 8:27 | 8:43 | 16 | 2 | ALIVE | A | 164 |
| BS3 | 8:36 | 8:38 | 2 | 2 | ALIVE | A | 166 |
| BS4 | 8:28 | 8:33 | 5 | 2 | ALIVE | A | 188 |
| BS5 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 170 |
| BS6 | 8:42 | 8:46 | 4 | 2 | ALIVE | A | 167 |
| BS7 | 8:38 | 8:47 | 9 | 2 | ALIVE | A | 150 |
| BS8 | 8:43 | 8:51 | 8 | 2 | ALIVE | A | 179 |
| BS9 | 8:48 | 8:55 | 7 | 2 | ALIVE | A | 175 |
| BT0 | 8:56 | 9:04 | 8 | 2 | ALIVE | A | 205 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| BT1 | 8:56 | 9:01 | 5 | 2 | ALIVE | A | 190 | |
| BT2 | 8:52 | 9:00 | 8 | 2 | ALIVE | A | 162 | |
| BT3 | 8:54 | 8:58 | 4 | 2 | ALIVE | A | 174 | |
| BT4 | 9:00 | 9:08 | 8 | 2 | ALIVE | A | 168 | |
| BT5 | 9:05 | 9:14 | 9 | 2 | ALIVE | A | 165 | |
| BT6 | 9:16 | 9:24 | 8 | 2 | ALIVE | A | 190 | |
| BT7 | 9:08 | 9:17 | 9 | 2 | ALIVE | A | 180 | |
| BT8 | 9:02 | 9:16 | 14 | 2 | ALIVE | A | 200 | |
| BT9 | 9:17 | 9:23 | 6 | 2 | ALIVE | A | 136 | |
| BU0 | 9:42 | 9:49 | 7 | 2 | ALIVE | A | 173 | |
| BU1 | 9:35 | 9:46 | 11 | 2 | ALIVE | A | 185 | |
| BU2 | 9:40 | 9:46 | 6 | 2 | ALIVE | A | 184 | |
| BU3 | 9:47 | 9:55 | 8 | 2 | ALIVE | A | 181 | |
| BU4 | 9:31 | 9:35 | 4 | 2 | ALIVE | A | 182 | |
| BU5 | 9:30 | 9:42 | 12 | 2 | ALIVE | A | 175 | |
| BU6 | 9:35 | 9:40 | 5 | 2 | ALIVE | A | 178 | |
| BU7 | 9:46 | 9:50 | 4 | 2 | ALIVE | A | 130 | |
| BU8 | 9:50 | 9:59 | 9 | 2 | ALIVE | A | 177 | |
| BU9 | 9:31 | 9:34 | 3 | 2 | ALIVE | A | 186 | |
| BV0 | 10:17 | 10:21 | 4 | 2 | ALIVE | A | 170 | |
| BV1 | 10:19 | 10:27 | 8 | 2 | ALIVE | A | 177 | |
| BV2 | 9:56 | 10:03 | 7 | 2 | ALIVE | A | 134 | |
| BV3 | 10:01 | 10:19 | 18 | 2 | ALIVE | A | 173 | |
| BV4 | 10:06 | 10:21 | 15 | 2 | ALIVE | A | 182 | |
| BV5 | 9:51 | 9:53 | 2 | 2 | ALIVE | A | 167 | |
| BV6 | 10:02 | 10:15 | 13 | 2 | ALIVE | A | 185 | |
| BV7 | 9:54 | 9:57 | 3 | 2 | ALIVE | A | 189 | |
| BV8 | 10:22 | 10:31 | 9 | 2 | ALIVE | A | 152 | |
| BV9 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 186 | |
| BW0 | 10:41 | 10:44 | 3 | 2 | ALIVE | A | 126 | |
| BW1 | 10:40 | 10:44 | 4 | 2 | ALIVE | A | 167 | |
| BW2 | 10:47 | 10:49 | 2 | 2 | ALIVE | A | 128 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BW3 | 10:44 | 10:47 | 3 | 2 | ALIVE | A | 167 |
| BW4 | 10:48 | 10:53 | 5 | 2 | ALIVE | A | 180 |
| BW5 | 10:49 | 10:51 | 2 | 2 | ALIVE | A | 172 |
| BW6 | 10:51 | 11:05 | 14 | 2 | ALIVE | A | 192 |
| BW7 | 10:45 | 10:48 | 3 | 2 | ALIVE | A | 202 |
| BW8 | 10:44 | 10:49 | 5 | 2 | ALIVE | A | 168 |
| BW9 | 10:40 | 10:43 | 3 | 2 | ALIVE | A | 162 |
| BX0 | 11:01 | 11:04 | 3 | 2 | ALIVE | A | 185 |
| BX1 | 11:05 | 11:09 | 4 | 2 | ALIVE | A | 196 |
| BX2 | 11:08 | 11:12 | 4 | 2 | ALIVE | A | 183 |
| BX3 | 10:52 | 10:54 | 2 | 2 | ALIVE | A | 185 |
| BX4 | 11:04 | 11:07 | 3 | 2 | ALIVE | A | 173 |
| BX5 | 10:55 | 10:59 | 4 | 2 | ALIVE | A | 155 |
| BX6 | 11:07 | 11:09 | 2 | 2 | ALIVE | A | 175 |
| BX8 | 10:54 | 10:58 | 4 | 2 | ALIVE | A | 193 |
| BX9 | 10:59 | 11:01 | 2 | 2 | ALIVE | A | 184 |
| BY0 | 11:25 | 11:30 | 5 | 2 | ALIVE | A | 182 |
| BY1 | 11:25 | 11:34 | 9 | 2 | ALIVE | A | 175 |
| BY2 | 11:31 | 11:37 | 6 | 2 | ALIVE | A | 180 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| BY3 | 11:25 | . | . | 0 | TAG & PIN | | 176 | |
| BY4 | 11:32 | 11:40 | 8 | 2 | ALIVE | A | 188 | |
| BY5 | 11:41 | 11:46 | 5 | 2 | ALIVE | A | 167 | |
| BY6 | 11:37 | 11:41 | 4 | 2 | ALIVE | A | 165 | |
| BY7 | 11:40 | 11:44 | 4 | 2 | DEAD | E | 184 | |
| BY8 | 11:45 | 11:50 | 5 | 2 | ALIVE | A | 189 | |
| BZ0 | 11:52 | 11:56 | 4 | 2 | ALIVE | A | 177 | |
| BZ1 | 11:48 | 11:52 | 4 | 2 | ALIVE | A | 166 | |
| BZ2 | 11:56 | 12:01 | 5 | 2 | ALIVE | A | 185 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BZ3 | 11:52 | 12:03 | 11 | 2 | ALIVE | A | 150 |
| BZ4 | 11:51 | 12:00 | 9 | 2 | ALIVE | A | 179 |
| BZ5 | 12:05 | 12:10 | 5 | 2 | ALIVE | A | 144 |
| BZ6 | 12:06 | 12:13 | 7 | 2 | ALIVE | A | 176 |
| BZ7 | 12:02 | 12:04 | 2 | 2 | ALIVE | A | 183 |
| BZ8 | 12:01 | 12:05 | 4 | 2 | ALIVE | A | 182 |
| BZ9 | 12:04 | 12:08 | 4 | 2 | ALIVE | A | 135 |
| V46 | 10:59 | 11:06 | 7 | 2 | ALIVE | A | 172 |
| V47 | 12:25 | 12:30 | 5 | 2 | ALIVE | A | 141 |

1 December 1999 - Testlot 16 : PL=1, Unit 6, Mid - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B30 | 7:17 | 7:32 | 15 | 2 | ALIVE | A | 192 |
| B31 | 7:24 | 7:40 | 16 | 2 | ALIVE | A | 190 |
| B32 | 7:33 | 7:38 | 5 | 2 | ALIVE | A | 153 |
| B33 | 7:18 | 7:33 | 15 | 2 | ALIVE | A | 170 |
| B34 | 7:18 | 7:23 | 5 | 2 | ALIVE | A | 196 |
| B35 | 7:47 | 7:52 | 5 | 2 | ALIVE | A | 180 |
| B36 | 7:34 | 7:38 | 4 | 2 | ALIVE | A | 185 |
| B37 | 7:39 | 7:56 | 17 | 2 | ALIVE | A | 208 |
| B38 | 7:36 | 7:46 | 10 | 2 | ALIVE | A | 190 |
| B39 | 7:44 | 7:54 | 10 | 2 | ALIVE | A | 167 |
| B40 | 7:53 | 8:02 | 9 | 2 | ALIVE | A | 176 |
| B41 | 8:03 | 8:06 | 3 | 2 | ALIVE | A | 177 |
| B42 | 7:57 | 8:02 | 5 | 2 | ALIVE | A | 190 |
| B43 | 8:03 | 8:06 | 3 | 2 | ALIVE | A | 152 |
| B44 | 7:54 | 8:15 | 21 | 2 | ALIVE | A | 184 |
| B45 | 8:07 | 8:13 | 6 | 2 | ALIVE | A | 151 |
| B46 | 8:14 | 8:17 | 3 | 2 | ALIVE | A | 177 |
| B47 | 8:06 | 8:09 | 3 | 2 | ALIVE | A | 170 |
| B48 | 8:09 | 8:17 | 8 | 2 | ALIVE | A | 163 |
| B49 | 8:15 | 8:21 | 6 | 2 | ALIVE | A | 175 |
| B50 | 8:47 | 8:49 | 2 | 2 | ALIVE | A | 185 |
| B51 | 8:49 | 8:52 | 3 | 2 | ALIVE | A | 173 |
| B52 | 8:40 | 8:45 | 5 | 2 | ALIVE | A | 172 |
| B53 | 8:43 | 8:48 | 5 | 2 | ALIVE | A | 186 |
| B54 | 8:41 | 8:43 | 2 | 2 | ALIVE | A | 186 |
| B55 | 8:45 | 8:49 | 4 | 2 | ALIVE | A | 130 |
| B56 | 8:44 | 8:47 | 3 | 2 | ALIVE | A | 142 |
| B57 | 8:40 | 8:43 | 3 | 2 | ALIVE | A | 183 |
| B58 | 8:49 | 8:52 | 3 | 2 | ALIVE | A | 186 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| B59 | 8:47 | 8:56 | 9 | 2 | ALIVE | A | 147 | |
| B60 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 177 | |
| B61 | 8:59 | 9:10 | 11 | 2 | ALIVE | A | 135 | |
| B62 | 8:56 | 8:59 | 3 | 2 | ALIVE | A | 183 | |
| B63 | 9:00 | 9:03 | 3 | 2 | ALIVE | A | 184 | |
| B64 | 9:06 | 9:09 | 3 | 2 | ALIVE | A | 134 | |
| B65 | 8:53 | 8:59 | 6 | 2 | ALIVE | A | 183 | |
| B66 | 8:57 | 9:01 | 4 | 2 | ALIVE | A | 207 | |
| B67 | 9:02 | 9:05 | 3 | 2 | ALIVE | A | 182 | |
| B68 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 196 | |
| B69 | 8:52 | 8:55 | 3 | 2 | ALIVE | A | 173 | |
| B70 | 9:21 | 9:27 | 6 | 2 | ALIVE | A | 205 | |
| B71 | 9:23 | 9:28 | 5 | 2 | ALIVE | A | 158 | |
| B72 | 9:21 | 9:23 | 2 | 2 | ALIVE | A | 175 | |
| B73 | 9:25 | 9:28 | 3 | 2 | DEAD | HJ | 185 | |
| B74 | 9:20 | 9:25 | 5 | 2 | ALIVE | A | 139 | |
| B75 | 9:33 | 9:45 | 12 | 2 | ALIVE | A | 132 | |
| B76 | 9:29 | 9:33 | 4 | 2 | ALIVE | A | 128 | |
| B77 | 9:34 | 9:39 | 5 | 2 | ALIVE | A | 195 | |
| B78 | 9:30 | 9:40 | 10 | 2 | ALIVE | A | 180 | |
| B79 | 9:27 | 9:32 | 5 | 2 | ALIVE | A | 186 | |
| B80 | 9:38 | 9:44 | 6 | 2 | ALIVE | A | 175 | |
| B81 | 9:48 | 9:57 | 9 | 2 | ALIVE | A | 191 | |
| B82 | 9:45 | 9:49 | 4 | 2 | ALIVE | A | 176 | |
| B83 | 9:40 | 9:44 | 4 | 2 | ALIVE | A | 174 | |
| B84 | 9:44 | 9:48 | 4 | 2 | ALIVE | A | 173 | |
| B85 | 10:01 | 10:24 | 23 | 2 | ALIVE | B | 182 | |
| B86 | 9:51 | 9:54 | 3 | 2 | ALIVE | A | 201 | |
| B87 | 9:50 | 10:01 | 11 | 2 | ALIVE | A | 168 | |
| B88 | 9:57 | 10:09 | 12 | 2 | ALIVE | A | 173 | |
| B89 | 9:55 | 10:03 | 8 | 2 | ALIVE | A | 190 | |
| B90 | 10:58 | 11:02 | 4 | 2 | ALIVE | A | 186 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B91 | 10:56 | 11:01 | 5 | 2 | ALIVE | A | 198 |
| B92 | 10:55 | 10:58 | 3 | 2 | ALIVE | A | 181 |
| B93 | 10:55 | 11:04 | 9 | 2 | ALIVE | A | 185 |
| B94 | 11:02 | 11:18 | 16 | 2 | ALIVE | A | 169 |
| B95 | 11:11 | . | . | 0 | DEAD | P | 196 |
| B96 | 11:03 | 11:09 | 6 | 2 | ALIVE | A | 151 |
| B97 | 11:10 | 11:31 | 21 | 2 | ALIVE | A | 176 |
| B98 | 11:05 | 11:09 | 4 | 2 | ALIVE | A | 186 |
| B99 | 11:20 | 11:27 | 7 | 2 | ALIVE | A | 173 |
| V48 | 12:54 | 13:03 | 9 | 2 | ALIVE | A | 164 |
| V49 | 14:15 | 14:19 | 4 | 2 | ALIVE | A | 173 |
| V50 | 11:31 | 11:39 | 8 | 2 | ALIVE | A | 187 |
| V51 | 11:37 | 11:42 | 5 | 2 | ALIVE | A | 176 |
| V52 | 11:40 | 11:44 | 4 | 2 | ALIVE | A | 185 |
| V53 | 11:27 | 11:35 | 8 | 2 | ALIVE | A | 186 |
| V54 | 11:32 | 11:40 | 8 | 2 | ALIVE | A | 180 |
| V56 | 11:56 | 12:08 | 12 | 2 | ALIVE | A | 184 |
| V57 | 11:41 | 11:55 | 14 | 2 | ALIVE | A | 185 |
| V58 | 11:56 | 12:00 | 4 | 2 | ALIVE | A | 190 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| V59 | 11:43 | 11:55 | 12 | 2 | ALIVE | A | 178 | |
| V60 | 12:26 | 12:33 | 7 | 2 | ALIVE | A | 186 | |
| V61 | 12:26 | 12:31 | 5 | 2 | ALIVE | A | 186 | |
| V62 | 12:37 | 12:40 | 3 | 2 | ALIVE | A | 193 | |
| V63 | 12:25 | 12:36 | 11 | 2 | ALIVE | A | 190 | |
| V64 | 12:46 | 12:51 | 5 | 2 | ALIVE | A | 151 | |
| V65 | 12:34 | 12:46 | 12 | 2 | ALIVE | A | 171 | |
| V66 | 12:40 | 12:45 | 5 | 2 | ALIVE | A | 190 | |
| V67 | 12:47 | 12:53 | 6 | 2 | ALIVE | A | 187 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| V68 | 12:42 | 12:48 | 6 | 2 | ALIVE | A | 185 |
| V69 | 12:31 | 12:40 | 9 | 2 | ALIVE | A | 174 |
| V70 | 13:02 | 13:08 | 6 | 2 | ALIVE | A | 184 |
| V71 | 13:09 | 13:14 | 5 | 2 | ALIVE | A | 208 |
| V72 | 13:04 | 13:14 | 10 | 2 | ALIVE | A | 181 |
| V73 | 13:14 | 13:22 | 8 | 2 | ALIVE | A | 169 |
| V74 | 13:15 | 13:23 | 8 | 2 | ALIVE | A | 199 |
| V75 | 13:03 | 13:09 | 6 | 2 | ALIVE | A | 177 |
| V76 | 12:49 | 13:03 | 14 | 2 | ALIVE | A | 183 |
| V78 | 13:10 | 13:20 | 10 | 2 | ALIVE | A | 188 |
| V79 | 12:54 | 13:02 | 8 | 2 | ALIVE | A | 201 |
| V80 | 13:33 | 13:36 | 3 | 2 | ALIVE | A | 136 |
| V81 | 13:28 | 13:32 | 4 | 2 | ALIVE | A | 167 |
| V82 | 13:28 | 13:43 | 15 | 2 | ALIVE | A | 190 |
| V83 | 13:27 | 13:31 | 4 | 2 | ALIVE | A | 180 |
| V84 | 13:32 | 13:35 | 3 | 2 | ALIVE | A | 173 |
| V85 | 13:42 | 13:47 | 5 | 2 | ALIVE | A | 185 |
| V86 | 13:36 | 13:42 | 6 | 2 | ALIVE | A | 165 |
| V87 | 13:36 | 13:43 | 7 | 2 | ALIVE | A | 180 |
| V88 | 13:44 | 13:53 | 9 | 2 | ALIVE | A | 148 |
| V89 | 13:43 | 13:50 | 7 | 2 | ALIVE | A | 180 |
| V90 | 13:51 | 14:11 | 20 | 1 | ALIVE | A | 190 |
| V91 | 13:52 | 13:57 | 5 | 2 | ALIVE | A | 180 |
| V92 | 13:48 | 13:52 | 4 | 2 | ALIVE | A | 169 |
| V93 | 13:57 | 14:01 | 4 | 2 | ALIVE | A | 130 |
| V94 | 13:53 | 13:58 | 5 | 2 | ALIVE | A | 161 |
| V95 | 14:05 | 14:11 | 6 | 2 | ALIVE | A | 173 |
| V96 | 14:07 | 14:15 | 8 | 2 | ALIVE | A | 177 |
| V97 | 14:01 | 14:06 | 5 | 2 | ALIVE | A | 177 |
| V98 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 181 |
| V99 | 14:02 | 14:02 | 0 | 2 | ALIVE | A | 175 |

2 December 1999 - Testlot 17 : PL=4, Unit 5, Tip - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TT8 | 9:18 | 9:21 | 3 | 2 | ALIVE | A | 180 |
| VA0 | 7:35 | 7:36 | 1 | 2 | ALIVE | A | 187 |
| VA1 | 7:29 | 7:51 | 22 | 2 | ALIVE | A | 172 |
| VA2 | 7:36 | 7:46 | 10 | 2 | ALIVE | A | 175 |
| VA3 | 7:28 | 7:35 | 7 | 2 | ALIVE | A | 172 |
| VA4 | 7:30 | 7:34 | 4 | 2 | DEAD | N | 182 |
| VA5 | 7:47 | 8:01 | 14 | 2 | ALIVE | A | 181 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VA6 | 7:44 | 7:53 | 9 | 2 | ALIVE | A | 181 | |
| VA7 | 7:38 | 7:43 | 5 | 2 | ALIVE | A | 189 | |
| VA8 | 7:54 | 7:58 | 4 | 2 | ALIVE | A | 146 | |
| VA9 | 7:55 | 8:01 | 6 | 2 | ALIVE | A | 185 | |
| VB0 | 8:01 | 8:07 | 6 | 2 | ALIVE | A | 184 | |
| VB1 | 8:08 | . | . | 0 | DEAD | L | 171 | |
| VB2 | 7:59 | 8:08 | 9 | 2 | ALIVE | A | 180 | |
| VB3 | 8:02 | 8:07 | 5 | 2 | ALIVE | A | 195 | |
| VB4 | 8:09 | 8:11 | 2 | 2 | ALIVE | A | 180 | |
| VB5 | 8:14 | 8:16 | 2 | 1 | ALIVE | B | 136 | |
| VB6 | 8:19 | 8:27 | 8 | 2 | ALIVE | A | 146 | |
| VB7 | 8:11 | 8:14 | 3 | 2 | ALIVE | A | 143 | |
| VB8 | 8:15 | 8:18 | 3 | 2 | ALIVE | A | 187 | |
| VB9 | 8:17 | 8:27 | 10 | 2 | ALIVE | A | 174 | |
| VC0 | 8:37 | 8:41 | 4 | 2 | ALIVE | A | 181 | |
| VC1 | 8:35 | 8:46 | 11 | 2 | ALIVE | A | 186 | |
| VC2 | 8:31 | 8:37 | 6 | 2 | ALIVE | A | 165 | |
| VC3 | 8:27 | 8:31 | 4 | 2 | DEAD | E | 177 | |
| VC4 | 8:28 | 8:35 | 7 | 1 | DEAD | BN | 190 | |
| VC5 | 8:46 | 8:57 | 11 | 2 | ALIVE | A | 177 | |
| VC6 | 8:41 | 8:50 | 9 | 2 | ALIVE | A | 190 | |
| VC7 | 8:42 | 8:45 | 3 | 2 | ALIVE | A | 185 | |
| VC8 | 8:50 | 8:52 | 2 | 2 | ALIVE | A | 170 | |
| VC9 | 8:47 | 8:50 | 3 | 2 | ALIVE | A | 140 | |
| VD0 | 8:54 | 9:05 | 11 | 2 | ALIVE | A | 131 | |
| VD1 | 9:01 | 9:04 | 3 | 2 | ALIVE | A | 185 | |
| VD2 | 8:58 | 9:01 | 3 | 2 | ALIVE | A | 168 | |
| VD3 | 8:54 | 8:58 | 4 | 2 | ALIVE | A | 186 | |
| VD4 | 8:58 | 9:00 | 2 | 2 | ALIVE | A | 180 | |
| VD5 | 9:05 | . | . | 1 | DEAD | L | 176 | |
| VD6 | 9:11 | 9:19 | 8 | 2 | ALIVE | A | 139 | |
| VD7 | 9:10 | 9:13 | 3 | 2 | ALIVE | A | 183 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VD8 | 9:04 | 9:10 | 6 | 2 | ALIVE | A | 171 |
| VD9 | 9:06 | 9:11 | 5 | 2 | ALIVE | A | 140 |
| VE0 | 9:21 | 9:25 | 4 | 2 | ALIVE | A | 171 |
| VE2 | 9:19 | 9:34 | 15 | 2 | ALIVE | A | 179 |
| VE3 | 9:14 | 9:17 | 3 | 2 | ALIVE | A | 177 |
| VE4 | 9:25 | 9:34 | 9 | 2 | ALIVE | A | 172 |
| VE5 | 9:45 | 9:53 | 8 | 2 | ALIVE | A | 184 |
| VE6 | 9:52 | 10:01 | 9 | 2 | ALIVE | A | 180 |
| VE7 | 9:44 | 9:51 | 7 | 2 | ALIVE | A | 186 |
| VE8 | 9:45 | 9:47 | 2 | 2 | DEAD | N | 185 |
| VE9 | 9:52 | 10:19 | 27 | 2 | ALIVE | A | 179 |
| VF0 | 10:12 | 10:13 | 1 | 2 | ALIVE | A | 175 |
| VF1 | 10:07 | 10:09 | 2 | 2 | ALIVE | A | 174 |
| VF2 | 9:55 | 10:11 | 16 | 2 | ALIVE | A | 177 |
| VF3 | 10:02 | 10:06 | 4 | 2 | ALIVE | A | 183 |
| VF4 | 10:09 | 10:20 | 11 | 2 | ALIVE | A | 182 |
| VF5 | 10:20 | 10:24 | 4 | 2 | ALIVE | A | 182 |
| VF6 | 10:25 | 10:33 | 8 | 2 | ALIVE | A | 190 |
| VF7 | 10:15 | 10:19 | 4 | 1 | ALIVE | A | 185 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VF8 | 10:20 | 10:32 | 12 | 2 | ALIVE | A | 175 | |
| VF9 | 10:29 | 10:46 | 17 | 2 | ALIVE | A | 164 | |
| VH0 | 11:06 | 11:14 | 8 | 2 | ALIVE | A | 130 | |
| VH1 | 10:53 | 11:05 | 12 | 2 | ALIVE | A | 177 | |
| VH2 | 11:05 | 11:12 | 7 | 2 | ALIVE | A | 182 | |
| VH3 | 10:55 | 11:03 | 8 | 2 | ALIVE | A | 188 | |
| VH4 | 11:09 | 11:26 | 17 | 2 | ALIVE | A | 184 | |
| VH5 | 10:34 | 10:40 | 6 | 2 | ALIVE | A | 184 | |
| VH6 | 10:41 | 10:51 | 10 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VH7 | 10:33 | 10:52 | 19 | 2 | ALIVE | A | 188 |
| VH8 | 10:47 | 10:54 | 7 | 2 | ALIVE | A | 147 |
| VH9 | 10:52 | 11:08 | 16 | 2 | ALIVE | A | 141 |
| VJ0 | 11:40 | 11:44 | 4 | 2 | ALIVE | A | 203 |
| VJ1 | 11:41 | 11:50 | 9 | 2 | ALIVE | A | 197 |
| VJ2 | 11:44 | 11:50 | 6 | 2 | ALIVE | A | 170 |
| VJ3 | 11:52 | 12:06 | 14 | 2 | ALIVE | A | 195 |
| VJ4 | 11:50 | 12:01 | 11 | 2 | ALIVE | A | 174 |
| VJ5 | 11:51 | 11:57 | 6 | 2 | ALIVE | A | 180 |
| VJ6 | 11:58 | 12:01 | 3 | 2 | ALIVE | A | 175 |
| VJ7 | 11:38 | 11:45 | 7 | 2 | ALIVE | A | 176 |
| VJ8 | 11:45 | 11:52 | 7 | 2 | ALIVE | A | 187 |
| VJ9 | 11:39 | 11:44 | 5 | 2 | ALIVE | A | 141 |
| VK0 | 12:18 | 12:21 | 3 | 2 | ALIVE | A | 142 |
| VK1 | 12:15 | 12:18 | 3 | 2 | ALIVE | A | 140 |
| VK2 | 12:25 | 12:30 | 5 | 2 | ALIVE | A | 182 |
| VK3 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 184 |
| VK4 | 12:20 | 12:25 | 5 | 2 | ALIVE | A | 180 |
| VK5 | 12:07 | 12:10 | 3 | 2 | ALIVE | A | 169 |
| VK6 | 12:02 | 12:09 | 7 | 2 | ALIVE | A | 190 |
| VK7 | 12:11 | 12:13 | 2 | 2 | ALIVE | A | 154 |
| VK8 | 12:27 | 12:30 | 3 | 2 | ALIVE | A | 136 |
| VK9 | 12:24 | 12:29 | 5 | 2 | ALIVE | A | 184 |
| VL0 | 12:19 | 12:22 | 3 | 2 | ALIVE | A | 160 |
| VL1 | 12:19 | 12:21 | 2 | 2 | ALIVE | A | 172 |
| VL2 | 12:22 | 12:25 | 3 | 2 | ALIVE | A | 185 |
| VL3 | 12:16 | 12:20 | 4 | 2 | ALIVE | A | 176 |
| VL4 | 12:14 | 12:17 | 3 | 2 | ALIVE | A | 175 |
| VL5 | 12:46 | 12:55 | 9 | 2 | ALIVE | A | 172 |
| VL6 | 12:45 | 12:55 | 10 | 2 | ALIVE | A | 200 |
| VL7 | 12:59 | 13:03 | 4 | 2 | ALIVE | A | 179 |
| VL9 | 12:49 | 13:03 | 14 | 2 | ALIVE | A | 186 |
| VM0 | 13:05 | 13:40 | 35 | 2 | ALIVE | A | 184 |
| VM1 | 13:07 | 13:10 | 3 | 2 | ALIVE | H | 186 |
| VM2 | 13:10 | 13:23 | 13 | 2 | ALIVE | A | 180 |
| VM3 | 13:05 | 13:10 | 5 | 2 | ALIVE | A | 145 |
| VM4 | 13:11 | 13:13 | 2 | 2 | ALIVE | A | 180 |
| VM5 | 13:35 | 14:03 | 28 | 2 | ALIVE | A | 176 |
| VM6 | 13:33 | 13:44 | 11 | 2 | ALIVE | A | 195 |
| VM7 | 13:14 | . | . | 0 | TAG & PIN | | 177 |
| VM8 | 13:23 | 13:35 | 12 | 2 | ALIVE | A | 190 |
| VN0 | 14:03 | 14:07 | 4 | 2 | ALIVE | A | 194 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VN2 | 14:01 | 14:16 | 15 | 2 | ALIVE | A | 187 | |
| VN3 | 13:56 | 13:59 | 3 | 2 | ALIVE | A | 185 | |
| VN4 | 13:44 | 13:55 | 11 | 2 | ALIVE | A | 190 | |
| VN5 | 14:30 | 14:32 | 2 | 2 | ALIVE | A | 180 | |
| VN6 | 14:30 | 14:33 | 3 | 2 | ALIVE | A | 176 | |
| VN7 | 14:35 | 14:37 | 2 | 2 | ALIVE | A | 185 | |
| VN8 | 14:37 | 14:39 | 2 | 2 | ALIVE | A | 172 | |
| VN9 | 14:40 | 14:44 | 4 | 2 | ALIVE | A | 151 | |
| VP0 | 14:35 | 14:39 | 4 | 2 | ALIVE | A | 198 | |
| VP1 | 14:40 | 14:44 | 4 | 2 | ALIVE | A | 177 | |
| VP2 | 14:29 | 14:35 | 6 | 2 | ALIVE | A | 185 | |
| VP3 | 14:39 | 14:42 | 3 | 2 | ALIVE | A | 186 | |
| VP4 | 14:32 | 14:38 | 6 | 2 | ALIVE | A | 166 | |
| VP5 | 14:53 | 14:57 | 4 | 2 | ALIVE | A | 135 | |
| VP6 | 14:54 | 14:56 | 2 | 2 | ALIVE | A | 169 | |
| VP7 | 14:44 | 14:46 | 2 | 2 | ALIVE | A | 166 | |
| VP8 | 14:57 | . | . | 0 | DEAD | L | 189 | |
| VR0 | 14:45 | 14:53 | 8 | 2 | ALIVE | A | 176 | |
| VR1 | 14:46 | 14:49 | 3 | 2 | ALIVE | A | 181 | |
| VR2 | 14:50 | 14:51 | 1 | 2 | ALIVE | A | 179 | |
| VR3 | 14:58 | 15:04 | 6 | 2 | ALIVE | A | 191 | |
| VR4 | 14:42 | 14:44 | 2 | 2 | ALIVE | A | 144 | |
| VR5 | 14:07 | 14:12 | 5 | 2 | ALIVE | A | 175 | |
| VR6 | 14:12 | 14:12 | 0 | 2 | ALIVE | A | 191 | |
| VR7 | 15:30 | 15:37 | 7 | 2 | ALIVE | A | 186 | |
| VR8 | 15:18 | 15:30 | 12 | 2 | ALIVE | A | 184 | |
| VR9 | 15:32 | 15:39 | 7 | 2 | ALIVE | A | 159 | |
| VS0 | 15:40 | 15:44 | 4 | 2 | ALIVE | A | 188 | |
| VS1 | 15:44 | 15:49 | 5 | 2 | ALIVE | A | 166 | |
| VS2 | 15:42 | 15:47 | 5 | 2 | ALIVE | A | 185 | |
| VS3 | 15:47 | 15:51 | 4 | 2 | ALIVE | A | 198 | |
| VS4 | 15:41 | 15:47 | 6 | 2 | ALIVE | A | 146 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VS5 | 15:28 | 15:42 | 14 | 2 | ALIVE | A | 192 |
| VS6 | 15:37 | 15:40 | 3 | 2 | ALIVE | A | 145 |

3 December 1999 - Testlot 18 : PL=3, Control - Water temp=50.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MM0 | 11:30 | 11:39 | 9 | 2 | ALIVE | A | 192 |
| MM1 | 11:39 | 11:50 | 11 | 2 | ALIVE | A | 165 |
| MM2 | 11:29 | 11:35 | 6 | 2 | ALIVE | A | 185 |
| MM3 | 11:24 | 11:30 | 6 | 2 | ALIVE | A | 176 |
| MM4 | 11:20 | 11:25 | 5 | 2 | ALIVE | A | 190 |
| MM5 | 11:24 | 11:26 | 2 | 2 | ALIVE | A | 193 |
| MM6 | 11:36 | 11:44 | 8 | 2 | ALIVE | A | 197 |
| MM7 | 11:27 | 11:29 | 2 | 2 | ALIVE | A | 180 |
| MM8 | 11:31 | 11:52 | 21 | 2 | ALIVE | A | 167 |
| MM9 | 11:25 | 11:30 | 5 | 2 | ALIVE | A | 170 |
| MN0 | 12:03 | 12:16 | 13 | 2 | ALIVE | A | 131 |
| MN1 | 12:04 | 12:17 | 13 | 2 | ALIVE | A | 183 |
| MN2 | 12:04 | 12:09 | 5 | 2 | ALIVE | A | 171 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MN3 | 12:13 | 12:19 | 6 | 2 | ALIVE | A | 181 | |
| MN4 | 12:10 | 12:12 | 2 | 2 | ALIVE | A | 189 | |
| MN5 | 12:21 | 12:37 | 16 | 2 | ALIVE | A | 179 | |
| MN6 | 12:32 | 12:35 | 3 | 2 | ALIVE | A | 163 | |
| MN7 | 12:28 | 12:52 | 24 | 2 | ALIVE | A | 190 | |
| MN8 | 12:21 | 12:24 | 3 | 2 | ALIVE | A | 195 | |
| MN9 | 12:24 | 12:32 | 8 | 2 | ALIVE | H | 180 | |
| MP0 | 12:43 | 12:45 | 2 | 2 | ALIVE | A | 157 | |
| MP1 | 12:46 | 13:11 | 25 | 2 | ALIVE | A | 187 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MP3 | 12:38 | 12:59 | 21 | 2 | ALIVE | A | 183 |
| MP4 | 12:36 | 12:40 | 4 | 2 | ALIVE | A | 178 |
| MP5 | 13:03 | 13:15 | 12 | 2 | ALIVE | A | 193 |
| MP6 | 13:14 | 13:23 | 9 | 2 | ALIVE | A | 182 |
| MP7 | 13:06 | 13:10 | 4 | 2 | ALIVE | A | 167 |
| MP8 | 13:10 | 13:18 | 8 | 2 | ALIVE | A | 176 |
| MP9 | 13:00 | 13:01 | 1 | 2 | ALIVE | A | 188 |
| MR0 | 13:33 | 13:38 | 5 | 2 | ALIVE | A | 189 |
| MR1 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 181 |
| MR2 | 13:30 | 13:34 | 4 | 2 | ALIVE | A | 171 |
| MR3 | 13:35 | 13:38 | 3 | 2 | ALIVE | A | 193 |
| MR4 | 13:33 | 13:36 | 3 | 2 | ALIVE | A | 163 |
| MR5 | 13:41 | 13:43 | 2 | 2 | DEAD | J | 192 |
| MR6 | 13:43 | 14:03 | 20 | 2 | ALIVE | A | 180 |
| MR7 | 13:40 | 13:46 | 6 | 2 | ALIVE | A | 132 |
| MR8 | 13:37 | 13:41 | 4 | 2 | ALIVE | A | 164 |
| MR9 | 13:38 | 13:40 | 2 | 2 | ALIVE | A | 197 |
| MS0 | 13:56 | 14:00 | 4 | 2 | ALIVE | A | 185 |
| MS2 | 14:04 | 14:14 | 10 | 2 | ALIVE | A | 173 |
| MS3 | 13:44 | 13:51 | 7 | 2 | ALIVE | A | 171 |
| MS4 | 13:51 | 13:56 | 5 | 2 | ALIVE | H | 187 |
| MS5 | 14:13 | 14:18 | 5 | 2 | ALIVE | A | 179 |
| MS6 | 14:18 | 14:20 | 2 | 2 | ALIVE | A | 175 |
| MS7 | 14:14 | 14:18 | 4 | 2 | ALIVE | A | 175 |
| MS8 | 14:21 | 14:26 | 5 | 2 | ALIVE | A | 134 |
| MS9 | 14:19 | 14:22 | 3 | 2 | ALIVE | A | 165 |
| TT9 | 14:32 | 14:36 | 4 | 2 | ALIVE | A | 190 |
| VS7 | 8:21 | 8:28 | 7 | 2 | ALIVE | A | 177 |
| VS8 | 13:16 | 13:19 | 3 | 2 | ALIVE | A | 136 |
| VS9 | 14:28 | 14:32 | 4 | 2 | ALIVE | A | 182 |
| VT0 | 7:22 | 7:28 | 6 | 2 | ALIVE | A | 180 |
| VT1 | 7:31 | . | . | 0 | TAG & PIN | | 180 |
| VT2 | 7:23 | 7:31 | 8 | 2 | ALIVE | A | 163 |
| VT3 | 7:29 | 7:47 | 18 | 2 | ALIVE | A | 138 |
| VT4 | 7:22 | 7:31 | 9 | 2 | ALIVE | A | 180 |
| VT5 | 7:48 | 7:55 | 7 | 2 | ALIVE | A | 187 |
| VT6 | 7:34 | 7:41 | 7 | 2 | ALIVE | A | 178 |
| VT7 | 8:01 | 8:15 | 14 | 2 | ALIVE | A | 182 |
| VT8 | 7:42 | . | . | 0 | DEAD | L | 182 |
| VT9 | 7:58 | 8:21 | 23 | 2 | ALIVE | A | 188 |
| VU0 | 8:15 | 8:24 | 9 | 2 | ALIVE | A | 181 |
| VU1 | 8:24 | 8:31 | 7 | 2 | ALIVE | A | 184 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VU2 | 8:27 | 8:42 | 15 | 2 | ALIVE | A | 176 | |
| VU4 | 8:34 | 8:37 | 3 | 2 | ALIVE | A | 181 | |
| VU5 | 8:38 | 8:40 | 2 | 2 | ALIVE | A | 180 | |
| VU6 | 8:34 | 8:42 | 8 | 2 | ALIVE | A | 203 | |
| VU7 | 8:28 | 8:33 | 5 | 2 | ALIVE | A | 172 | |
| VU8 | 8:23 | 8:25 | 2 | 2 | ALIVE | A | 165 | |
| VU9 | 8:41 | 8:47 | 6 | 2 | ALIVE | A | 137 | |
| VV0 | 9:01 | 9:05 | 4 | 2 | ALIVE | A | 180 | |
| VV1 | 9:12 | 9:15 | 3 | 2 | ALIVE | A | 130 | |
| VV2 | 9:05 | 9:09 | 4 | 2 | ALIVE | A | 187 | |
| VV3 | 9:06 | 9:08 | 2 | 2 | ALIVE | A | 182 | |
| VV4 | 9:09 | 9:13 | 4 | 2 | ALIVE | A | 181 | |
| VV5 | 9:01 | 9:04 | 3 | 2 | ALIVE | A | 163 | |
| VV6 | 9:01 | 9:09 | 8 | 2 | ALIVE | A | 186 | |
| VV7 | 9:13 | 9:19 | 6 | 2 | ALIVE | A | 185 | |
| VV8 | 9:10 | 9:12 | 2 | 2 | ALIVE | A | 183 | |
| VV9 | 9:10 | 9:12 | 2 | 2 | ALIVE | A | 135 | |
| VW0 | 9:14 | 9:16 | 2 | 2 | ALIVE | A | 170 | |
| VW1 | 9:16 | 9:19 | 3 | 2 | ALIVE | A | 194 | |
| VW2 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 178 | |
| VW3 | 9:15 | 9:21 | 6 | 2 | ALIVE | A | 184 | |
| VW4 | 9:25 | 9:29 | 4 | 2 | ALIVE | A | 140 | |
| VW5 | 9:22 | 9:24 | 2 | 2 | ALIVE | A | 177 | |
| VW6 | 9:20 | 9:25 | 5 | 2 | ALIVE | A | 170 | |
| VW7 | 9:25 | 9:29 | 4 | 2 | ALIVE | A | 193 | |
| VW8 | 9:26 | 9:32 | 6 | 2 | ALIVE | A | 177 | |
| VW9 | 9:21 | 9:26 | 5 | 2 | ALIVE | A | 181 | |
| VX0 | 9:43 | 9:55 | 12 | 2 | ALIVE | A | 190 | |
| VX1 | 9:44 | 9:48 | 4 | 2 | ALIVE | A | 190 | |
| VX2 | 9:49 | 9:55 | 6 | 2 | ALIVE | A | 168 | |
| VX3 | 9:47 | 9:55 | 8 | 2 | ALIVE | A | 187 | |
| VX4 | 9:42 | 9:47 | 5 | 2 | ALIVE | A | 191 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VX5 | 10:01 | 10:07 | 6 | 2 | ALIVE | A | 176 |
| VX6 | 9:55 | . | . | 0 | DEAD | Z | 160 |
| VX7 | 10:01 | 10:07 | 6 | 2 | ALIVE | A | 182 |
| VX8 | 9:56 | 10:00 | 4 | 2 | ALIVE | A | 178 |
| VX9 | 9:57 | 10:01 | 4 | 2 | ALIVE | A | 176 |
| VY0 | 10:07 | 10:14 | 7 | 2 | ALIVE | A | 178 |
| VY2 | 10:11 | 10:14 | 3 | 2 | ALIVE | A | 183 |
| VY3 | 10:15 | 10:21 | 6 | 2 | ALIVE | A | 198 |
| VY4 | 10:08 | 10:12 | 4 | 2 | ALIVE | A | 170 |
| VY5 | 10:30 | 10:34 | 4 | 2 | ALIVE | A | 178 |
| VY6 | 10:33 | 10:47 | 14 | 2 | ALIVE | A | 182 |
| VY7 | 10:29 | 10:38 | 9 | 2 | ALIVE | A | 167 |
| VY8 | 10:35 | 10:48 | 13 | 2 | ALIVE | A | 133 |
| VY9 | 10:22 | 10:29 | 7 | 2 | ALIVE | A | 180 |
| VZ0 | 11:18 | 11:20 | 2 | 2 | ALIVE | A | 159 |
| VZ1 | 10:56 | 11:04 | 8 | 2 | ALIVE | A | 186 |
| VZ2 | 10:58 | 11:16 | 18 | 2 | ALIVE | A | 159 |
| VZ3 | 10:55 | 10:59 | 4 | 2 | ALIVE | A | 178 |
| VZ4 | 11:07 | 11:23 | 16 | 2 | ALIVE | A | 190 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VZ5 | 11:12 | 11:17 | 5 | 2 | ALIVE | A | 172 | |
| VZ6 | 11:09 | 11:13 | 4 | 2 | ALIVE | A | 161 | |
| VZ7 | 10:59 | 11:08 | 9 | 2 | ALIVE | A | 182 | |
| VZ8 | 11:16 | 11:23 | 7 | 2 | ALIVE | A | 186 | |
| VZ9 | 10:59 | 11:06 | 7 | 2 | ALIVE | A | 177 | |

4 December 1999 - Testlot 19 : PL=4, Unit 5, Hub - Water temp= 9.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MT0 | 7:13 | 7:23 | 10 | 2 | ALIVE | A | 175 |
| MT1 | 7:23 | 7:31 | 8 | 2 | ALIVE | A | 180 |
| MT2 | 7:14 | 7:27 | 13 | 2 | ALIVE | A | 185 |
| MT3 | 7:14 | 7:45 | 31 | 2 | ALIVE | H | 200 |
| MT4 | 7:27 | 7:47 | 20 | 2 | ALIVE | A | 179 |
| MT5 | 7:47 | 7:51 | 4 | 2 | ALIVE | A | 195 |
| MT6 | 7:43 | 7:44 | 1 | 2 | ALIVE | A | 172 |
| MT7 | 7:33 | 7:42 | 9 | 2 | ALIVE | A | 133 |
| MT8 | 7:48 | 7:56 | 8 | 2 | ALIVE | A | 196 |
| MT9 | 7:48 | 7:59 | 11 | 2 | ALIVE | A | 194 |
| MU0 | 7:59 | 8:04 | 5 | 2 | ALIVE | A | 164 |
| MU1 | 7:54 | 7:55 | 1 | 2 | ALIVE | A | 192 |
| MU2 | 7:57 | 8:08 | 11 | 2 | ALIVE | A | 181 |
| MU3 | 7:56 | 8:04 | 8 | 2 | ALIVE | A | 182 |
| MU4 | 7:51 | 7:53 | 2 | 2 | ALIVE | A | 162 |
| MU5 | 8:13 | 8:17 | 4 | 2 | ALIVE | A | 145 |
| MU6 | 8:09 | 8:13 | 4 | 2 | ALIVE | A | 140 |
| MU7 | 8:09 | 8:12 | 3 | 2 | ALIVE | A | 142 |
| MU8 | 8:04 | 8:08 | 4 | 2 | ALIVE | A | 188 |
| MU9 | 8:05 | 8:14 | 9 | 2 | ALIVE | A | 171 |
| MV0 | 8:46 | 8:51 | 5 | 2 | ALIVE | A | 180 |
| MV1 | 8:52 | 8:56 | 4 | 2 | ALIVE | A | 192 |
| MV2 | 8:56 | 9:00 | 4 | 2 | ALIVE | A | 182 |
| MV3 | 8:57 | 9:01 | 4 | 2 | ALIVE | A | 182 |
| MV4 | 9:00 | 9:05 | 5 | 2 | ALIVE | A | 200 |
| MV5 | 8:59 | 9:02 | 3 | 2 | ALIVE | A | 132 |
| MV6 | 8:48 | 8:51 | 3 | 2 | ALIVE | A | 133 |
| MV7 | 8:52 | 8:56 | 4 | 2 | ALIVE | A | 184 |
| MV8 | 8:47 | 8:52 | 5 | 2 | ALIVE | A | 187 |
| MV9 | 8:53 | 8:59 | 6 | 2 | ALIVE | A | 184 |
| MW0 | 9:10 | 9:16 | 6 | 2 | ALIVE | A | 184 |
| MW1 | 9:12 | 9:17 | 5 | 2 | ALIVE | A | 177 |
| MW2 | 9:18 | 9:22 | 4 | 2 | ALIVE | A | 146 |
| MW3 | 9:05 | 9:08 | 3 | 2 | ALIVE | A | 186 |
| MW4 | 9:25 | 9:31 | 6 | 2 | ALIVE | A | 185 |
| MW5 | 9:23 | 9:27 | 4 | 2 | ALIVE | A | 193 |
| MW6 | 9:17 | 9:25 | 8 | 2 | ALIVE | A | 190 |
| MW7 | 9:02 | 9:10 | 8 | 2 | ALIVE | A | 155 |
| MW8 | 9:03 | 9:10 | 7 | 2 | ALIVE | A | 144 |
| MW9 | 9:08 | 10:14 | 66 | 1 | ALIVE | BH | 178 |
| MX0 | 9:43 | 9:48 | 5 | 2 | ALIVE | A | 172 |
| MX1 | 9:42 | 9:47 | 5 | 1 | ALIVE | B | 181 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MX2 | 9:42 | 9:49 | 7 | 2 | ALIVE | A | 179 | |
| MX3 | 9:48 | 9:52 | 4 | 2 | ALIVE | A | 166 | |
| MX4 | 9:49 | 9:52 | 3 | 2 | ALIVE | A | 175 | |
| MX5 | 9:56 | 10:14 | 18 | 2 | ALIVE | A | 145 | |
| MX6 | 9:52 | 9:57 | 5 | 2 | ALIVE | A | 185 | |
| MX7 | 10:01 | 10:09 | 8 | 2 | ALIVE | A | 141 | |
| MX8 | 9:54 | 9:56 | 2 | 2 | ALIVE | A | 188 | |
| MX9 | 9:57 | 10:00 | 3 | 2 | ALIVE | A | 186 | |
| MY0 | 10:15 | 10:21 | 6 | 2 | ALIVE | A | 196 | |
| MY1 | 10:14 | 10:17 | 3 | 2 | ALIVE | A | 183 | |
| MY2 | 10:09 | 10:13 | 4 | 2 | ALIVE | A | 180 | |
| MY3 | 10:04 | 10:15 | 11 | 2 | ALIVE | A | 130 | |
| MY4 | 10:16 | 10:27 | 11 | 2 | ALIVE | A | 135 | |
| MY5 | 10:22 | 10:24 | 2 | 2 | ALIVE | A | 182 | |
| MY6 | 10:24 | 10:27 | 3 | 2 | ALIVE | A | 174 | |
| MY7 | 10:22 | 10:26 | 4 | 2 | ALIVE | A | 182 | |
| MY8 | 10:19 | 10:21 | 2 | 2 | ALIVE | A | 172 | |
| MY9 | 10:26 | 10:35 | 9 | 2 | ALIVE | A | 151 | |
| MZ0 | 10:49 | 10:52 | 3 | 2 | ALIVE | A | 128 | |
| MZ1 | 11:01 | 11:04 | 3 | 2 | ALIVE | A | 130 | |
| MZ2 | 10:46 | 10:52 | 6 | 2 | ALIVE | A | 192 | |
| MZ3 | 10:57 | 11:00 | 3 | 2 | ALIVE | A | 171 | |
| MZ4 | 10:42 | 10:49 | 7 | 2 | ALIVE | A | 167 | |
| MZ5 | 11:04 | 11:12 | 8 | 2 | ALIVE | A | 163 | |
| MZ6 | 10:43 | 10:46 | 3 | 2 | ALIVE | A | 165 | |
| MZ7 | 10:52 | 11:14 | 22 | 2 | ALIVE | A | 201 | |
| MZ8 | 10:45 | 10:49 | 4 | 2 | ALIVE | A | 192 | |
| MZ9 | 10:53 | 11:12 | 19 | 2 | ALIVE | A | 141 | |
| V00 | 11:28 | 11:33 | 5 | 2 | ALIVE | A | 189 | |
| V01 | 11:19 | 11:22 | 3 | 2 | ALIVE | A | 167 | |
| V02 | 11:15 | 11:18 | 3 | 2 | ALIVE | A | 190 | |
| V03 | 11:20 | 11:38 | 18 | 2 | ALIVE | A | 148 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| V04 | 11:19 | 11:22 | 3 | 2 | ALIVE | A | 193 | |
| V05 | 11:23 | 11:31 | 8 | 2 | ALIVE | A | 180 | |
| V06 | 11:14 | 11:19 | 5 | 2 | ALIVE | A | 151 | |
| V07 | 11:26 | 11:27 | 1 | 2 | ALIVE | A | 175 | |
| V08 | 11:23 | 11:25 | 2 | 2 | ALIVE | A | 185 | |
| V09 | 11:14 | 11:19 | 5 | 2 | ALIVE | A | 184 | |
| V10 | 12:25 | 12:44 | 19 | 2 | ALIVE | A | 128 | |
| V11 | 12:42 | . | . | 0 | DEAD | P | 130 | |
| V12 | 12:19 | 12:25 | 6 | 2 | ALIVE | A | 165 | |
| V13 | 12:19 | 12:39 | 20 | 2 | ALIVE | A | 181 | |
| V14 | 12:20 | . | . | 0 | DEAD | Z | 173 | |
| V15 | 12:46 | 12:52 | 6 | 2 | ALIVE | A | 196 | |
| V16 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 183 | |
| V17 | 12:51 | 12:55 | 4 | 2 | ALIVE | A | 196 | |
| V18 | 12:48 | 12:53 | 5 | 2 | ALIVE | A | 178 | |
| V19 | 12:53 | 12:57 | 4 | 2 | ALIVE | A | 145 | |
| V20 | 12:59 | 13:05 | 6 | 1 | ALIVE | H | 186 | |
| V21 | 12:58 | 13:00 | 2 | 2 | ALIVE | A | 170 | |
| V22 | 13:00 | 13:02 | 2 | 2 | ALIVE | A | 173 | |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| V23 | 12:56 | 12:59 | 3 | 2 | ALIVE | A | 185 | |
| V24 | 12:55 | 12:58 | 3 | 2 | ALIVE | A | 191 | |
| V25 | 13:05 | 13:12 | 7 | 2 | ALIVE | A | 179 | |
| V26 | 13:06 | 13:08 | 2 | 2 | ALIVE | A | 187 | |
| V27 | 13:09 | 13:13 | 4 | 2 | ALIVE | A | 182 | |
| V28 | 13:01 | 13:04 | 3 | 2 | ALIVE | A | 180 | |
| V29 | 13:03 | 13:08 | 5 | 2 | ALIVE | A | 199 | |
| V30 | 13:18 | 13:24 | 6 | 2 | ALIVE | A | 186 | |
| V31 | 13:14 | 13:29 | 15 | 2 | ALIVE | A | 168 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| V32 | 13:12 | 13:17 | 5 | 2 | ALIVE | A | 188 |
| V33 | 13:13 | 13:22 | 9 | 2 | ALIVE | A | 180 |
| V34 | 13:10 | 13:14 | 4 | 2 | ALIVE | A | 163 |
| V35 | 13:29 | 13:39 | 10 | 2 | ALIVE | A | 187 |
| V36 | 13:22 | 13:25 | 3 | 2 | ALIVE | A | 180 |
| V37 | 13:30 | 13:34 | 4 | 2 | ALIVE | A | 166 |
| V38 | 13:24 | 13:34 | 10 | 2 | ALIVE | H | 170 |
| V39 | 13:26 | 13:28 | 2 | 2 | ALIVE | A | 165 |
| V40 | 13:39 | 13:42 | 3 | 2 | ALIVE | A | 145 |
| V41 | 13:40 | 13:43 | 3 | 2 | ALIVE | A | 185 |
| V42 | 13:34 | 13:37 | 3 | 2 | ALIVE | | 189 |
| V43 | 13:38 | 13:40 | 2 | 2 | ALIVE | A | 194 |
| V44 | 13:34 | . | . | 0 | TAG & PIN | | 175 |
| V45 | 13:46 | 13:49 | 3 | 2 | ALIVE | A | 131 |
| V46 | 13:42 | 13:44 | 2 | 2 | ALIVE | A | 174 |
| V47 | 13:43 | 13:46 | 3 | 2 | ALIVE | A | 174 |
| V48 | 13:43 | 13:53 | 10 | 2 | ALIVE | A | 175 |
| V49 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 177 |

5 December 1999 - Testlot 20 : PL=4, Control - Water temp= 9.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| V50 | 7:31 | 7:35 | 4 | 2 | ALIVE | A | 183 |
| V51 | 7:30 | 7:33 | 3 | 2 | ALIVE | A | 192 |
| V52 | 7:44 | 7:51 | 7 | 2 | ALIVE | A | 180 |
| V53 | 7:44 | 7:47 | 3 | 2 | ALIVE | A | 184 |
| V54 | 7:45 | 7:52 | 7 | 2 | ALIVE | A | 170 |
| V55 | 7:30 | 7:33 | 3 | 2 | ALIVE | A | 196 |
| V56 | 7:35 | 7:43 | 8 | 2 | ALIVE | A | 187 |
| V57 | 7:34 | 7:39 | 5 | 2 | ALIVE | A | 195 |
| V58 | 7:34 | 7:44 | 10 | 2 | ALIVE | A | 186 |
| V59 | 7:40 | 7:44 | 4 | 2 | ALIVE | A | 183 |
| V60 | 7:56 | 7:58 | 2 | 2 | ALIVE | A | 183 |
| V61 | 8:02 | 8:06 | 4 | 2 | ALIVE | A | 180 |
| V62 | 7:58 | 8:01 | 3 | 2 | ALIVE | A | 175 |
| V63 | 7:56 | 7:59 | 3 | 2 | ALIVE | A | 135 |
| V64 | 7:48 | 7:49 | 1 | 2 | ALIVE | A | 197 |
| V65 | 7:57 | 8:01 | 4 | 2 | ALIVE | A | 172 |
| V66 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 171 |
| V67 | 7:50 | 7:54 | 4 | 2 | ALIVE | A | 190 |
| V68 | 7:59 | 8:01 | 2 | 2 | ALIVE | A | 135 |
| V69 | 7:51 | 7:55 | 4 | 2 | ALIVE | A | 172 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| V70 | 8:26 | 8:35 | 9 | 2 | ALIVE | A | 174 | |
| V71 | 8:27 | 8:41 | 14 | 2 | ALIVE | A | 175 | |
| V72 | 8:41 | 8:47 | 6 | 2 | ALIVE | A | 183 | |
| V73 | 8:27 | 8:40 | 13 | 2 | ALIVE | A | 128 | |
| V74 | 8:36 | 8:43 | 7 | 2 | ALIVE | A | 183 | |
| V75 | 8:44 | 8:57 | 13 | 2 | ALIVE | A | 179 | |
| V76 | 8:43 | 8:50 | 7 | 2 | DEAD | GNE | 190 | |
| V77 | 8:57 | 9:08 | 11 | 2 | ALIVE | A | 176 | |
| V79 | 8:47 | 8:57 | 10 | 2 | ALIVE | A | 161 | |
| V80 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 145 | |
| V81 | 9:07 | 9:12 | 5 | 2 | ALIVE | A | 202 | |
| V82 | 9:08 | 9:17 | 9 | 2 | ALIVE | A | 179 | |
| V83 | 9:03 | 9:07 | 4 | 2 | ALIVE | A | 192 | |
| V84 | 8:59 | 9:04 | 5 | 2 | ALIVE | A | 158 | |
| V85 | 9:13 | 9:17 | 4 | 2 | ALIVE | A | 164 | |
| V86 | 9:18 | 9:28 | 10 | 2 | ALIVE | A | 138 | |
| V87 | 9:18 | 9:23 | 5 | 1 | ALIVE | B | 143 | |
| V88 | 9:23 | 9:36 | 13 | 2 | ALIVE | A | 135 | |
| V89 | 9:10 | 9:28 | 18 | 2 | ALIVE | A | 181 | |
| V90 | 9:52 | 9:55 | 3 | 2 | ALIVE | A | 194 | |
| V91 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 185 | |
| V92 | 9:51 | 9:55 | 4 | 1 | ALIVE | A | 194 | |
| V93 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 167 | |
| V95 | 9:55 | 10:00 | 5 | 2 | ALIVE | A | 181 | |
| V96 | 9:56 | 9:56 | 0 | 2 | ALIVE | A | 182 | |
| V97 | 10:04 | 10:09 | 5 | 2 | ALIVE | A | 137 | |
| V98 | 10:00 | 10:04 | 4 | 2 | ALIVE | A | 193 | |
| V99 | 10:00 | 10:12 | 12 | 2 | ALIVE | A | 171 | |
| VA0 | 10:22 | 10:26 | 4 | 2 | ALIVE | A | 177 | |
| VA1 | 10:10 | 10:21 | 11 | 2 | ALIVE | A | 191 | |
| VA2 | 10:17 | 10:21 | 4 | 2 | ALIVE | A | 182 | |
| VA3 | 10:13 | 10:17 | 4 | 2 | ALIVE | A | 192 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VA4 | 10:21 | 10:28 | 7 | 2 | ALIVE | A | 182 |
| VA5 | 10:28 | 10:33 | 5 | 2 | ALIVE | A | 197 |
| VA6 | 10:27 | 10:29 | 2 | 2 | ALIVE | A | 195 |
| VA7 | 10:29 | 10:36 | 7 | 2 | ALIVE | A | 181 |
| VA8 | 10:30 | 10:33 | 3 | 2 | ALIVE | A | 190 |
| VA9 | 10:25 | 10:27 | 2 | 2 | ALIVE | A | 195 |
| VB0 | 10:33 | 10:40 | 7 | 2 | ALIVE | A | 130 |
| VB1 | 10:39 | 10:43 | 4 | 2 | ALIVE | A | 186 |
| VB2 | 10:40 | 10:49 | 9 | 2 | ALIVE | A | 150 |
| VB3 | 10:34 | 10:41 | 7 | 2 | ALIVE | A | 190 |
| VB4 | 10:41 | . | . | 0 | TAG & PIN | | 133 |
| VB5 | 10:54 | 11:00 | 6 | 2 | ALIVE | A | 185 |
| VB6 | 10:52 | 10:54 | 2 | 2 | ALIVE | A | 181 |
| VB7 | 10:49 | 10:52 | 3 | 2 | ALIVE | A | 192 |
| VB8 | 10:44 | 10:58 | 14 | 2 | ALIVE | A | 203 |
| VB9 | 10:59 | 11:09 | 10 | 2 | ALIVE | A | 150 |
| VC0 | 11:10 | 11:14 | 4 | 2 | ALIVE | A | 179 |
| VC1 | 11:05 | 11:10 | 5 | 2 | ALIVE | A | 185 |
| VC2 | 11:10 | 11:13 | 3 | 2 | ALIVE | A | 179 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VC3 | 11:07 | 11:11 | 4 | 2 | DEAD | F | 177 | |
| VC4 | 11:02 | 11:05 | 3 | 2 | ALIVE | A | 180 | |
| VC5 | 11:23 | 11:26 | 3 | 2 | ALIVE | A | 134 | |
| VC6 | 11:13 | 11:23 | 10 | 2 | ALIVE | A | 178 | |
| VC7 | 11:15 | 11:20 | 5 | 2 | ALIVE | A | 143 | |
| VC9 | 11:20 | 11:23 | 3 | 2 | ALIVE | A | 153 | |
| VD0 | 11:50 | 11:54 | 4 | 1 | DEAD | F | 130 | |
| VD1 | 11:37 | 11:50 | 13 | 2 | ALIVE | A | 182 | |
| VD2 | 11:50 | 11:57 | 7 | 2 | ALIVE | A | 195 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VD3 | 11:38 | 11:52 | 14 | 2 | ALIVE | A | 191 |
| VD4 | 11:37 | 11:48 | 11 | 2 | ALIVE | A | 188 |
| VD5 | 11:53 | 11:57 | 4 | 2 | ALIVE | A | 188 |
| VD6 | 11:57 | 12:02 | 5 | 2 | ALIVE | A | 196 |
| VD7 | 11:52 | 11:55 | 3 | 2 | ALIVE | A | 185 |
| VD8 | 11:58 | 12:03 | 5 | 2 | ALIVE | A | 150 |
| VD9 | 11:56 | 11:59 | 3 | 2 | ALIVE | A | 200 |
| VE0 | 12:00 | 12:16 | 16 | 2 | ALIVE | A | 176 |
| VE1 | 12:14 | 12:20 | 6 | 2 | ALIVE | A | 180 |
| VE2 | 12:04 | 12:15 | 11 | 2 | ALIVE | A | 200 |
| VE3 | 12:16 | 12:30 | 14 | 2 | ALIVE | A | 191 |
| VE5 | 12:34 | 12:39 | 5 | 2 | ALIVE | A | 180 |
| VE6 | 12:21 | 12:30 | 9 | 2 | ALIVE | A | 180 |
| VE7 | 12:18 | 12:24 | 6 | 2 | ALIVE | A | 196 |
| VE8 | 12:31 | 12:49 | 18 | 2 | ALIVE | A | 201 |
| VE9 | 12:24 | 12:33 | 9 | 2 | ALIVE | A | 200 |
| VF0 | 13:11 | 13:14 | 3 | 2 | ALIVE | A | 186 |
| VF1 | 13:13 | 13:19 | 6 | 2 | ALIVE | A | 180 |
| VF2 | 13:02 | 13:07 | 5 | 2 | ALIVE | A | 200 |
| VF3 | 13:09 | 13:12 | 3 | 2 | ALIVE | A | 204 |
| VF4 | 13:05 | 13:07 | 2 | 2 | ALIVE | A | 131 |
| VF5 | 13:06 | 13:09 | 3 | 2 | ALIVE | A | 182 |
| VF6 | 13:08 | 13:18 | 10 | 2 | ALIVE | A | 152 |
| VF7 | 13:08 | 13:10 | 2 | 2 | ALIVE | A | 150 |
| VF8 | 13:01 | 13:06 | 5 | 2 | ALIVE | A | 181 |
| VF9 | 13:01 | 13:05 | 4 | 2 | ALIVE | A | 194 |
| VH0 | 13:20 | 13:25 | 5 | 2 | ALIVE | A | 178 |
| VH1 | 13:19 | 13:21 | 2 | 2 | ALIVE | A | 180 |
| VH2 | 13:32 | 13:33 | 1 | 2 | ALIVE | A | 170 |
| VH3 | 13:15 | . | . | 0 | DEAD | P | 168 |
| VH4 | 13:23 | 13:32 | 9 | 2 | ALIVE | A | 185 |
| VH5 | 13:26 | 13:36 | 10 | 2 | ALIVE | A | 194 |
| VH6 | 13:22 | 13:25 | 3 | 2 | ALIVE | A | 195 |
| VH7 | 13:32 | 13:36 | 4 | 2 | ALIVE | A | 151 |
| VH8 | 13:18 | 13:20 | 2 | 2 | ALIVE | A | 176 |
| VH9 | 13:27 | 13:30 | 3 | 2 | ALIVE | A | 172 |
| VZ0 | 9:49 | . | . | 0 | TAG & PIN | | 180 |
| VZ1 | 12:30 | 12:44 | 14 | 2 | ALIVE | A | 186 |
| VZ2 | 12:46 | 12:51 | 5 | 2 | ALIVE | A | 178 |
| VZ3 | 12:48 | 12:57 | 9 | 2 | ALIVE | A | 188 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 6 December 1999 - Testlot 21 : PL=2, Unit 6, Mid - Water temp=50.0 C | | | | | | | | |
| VJ0 | 7:31 | 7:40 | 9 | 2 | ALIVE | A | 189 | |
| VJ1 | 7:25 | . | . | 0 | DEAD | L | 186 | |
| VJ2 | 7:25 | 7:31 | 6 | 2 | ALIVE | A | 180 | |
| VJ3 | 7:37 | 7:52 | 15 | 2 | ALIVE | A | 199 | |
| VJ4 | 7:40 | 7:48 | 8 | 2 | ALIVE | A | 182 | |
| VJ5 | 8:02 | 8:15 | 13 | 2 | ALIVE | A | 168 | |
| VJ7 | 7:48 | 8:12 | 24 | 2 | ALIVE | A | 196 | |
| VJ8 | 7:55 | 8:02 | 7 | 2 | ALIVE | A | 181 | |
| VJ9 | 8:14 | . | . | 2 | DEAD | Z | 186 | |
| VK0 | 8:27 | 8:38 | 11 | 2 | ALIVE | A | 168 | |
| VK1 | 8:17 | 8:22 | 5 | 2 | ALIVE | A | 190 | |
| VK2 | 8:16 | 8:21 | 5 | 2 | ALIVE | A | 165 | |
| VK3 | 8:22 | 8:26 | 4 | 2 | ALIVE | A | 162 | |
| VK4 | 8:21 | 8:35 | 14 | 2 | ALIVE | A | 176 | |
| VK5 | 9:04 | . | . | 0 | DEAD | P | 193 | |
| VK6 | 8:45 | 9:01 | 16 | 2 | ALIVE | A | 130 | |
| VK7 | 8:41 | 8:45 | 4 | 2 | ALIVE | A | 175 | |
| VK8 | 9:09 | 9:12 | 3 | 2 | ALIVE | A | 190 | |
| VK9 | 8:41 | 9:08 | 27 | 2 | ALIVE | A | 141 | |
| VL0 | 10:10 | 10:12 | 2 | 2 | ALIVE | A | 130 | |
| VL1 | 10:05 | 10:18 | 13 | 2 | ALIVE | A | 183 | |
| VL2 | 10:06 | 10:10 | 4 | 2 | ALIVE | A | 184 | |
| VL3 | 10:02 | 10:04 | 2 | 2 | ALIVE | A | 188 | |
| VL4 | 10:20 | 10:21 | 1 | 2 | ALIVE | A | 190 | |
| VL5 | 10:03 | 10:04 | 1 | 2 | ALIVE | A | 135 | |
| VL7 | 10:12 | 10:23 | 11 | 2 | ALIVE | A | 191 | |
| VL8 | 10:01 | 10:04 | 3 | 2 | ALIVE | A | 185 | |
| VL9 | 10:06 | 10:08 | 2 | 2 | ALIVE | A | 143 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VM0 | 10:30 | 10:31 | 1 | 2 | ALIVE | A | 178 |
| VM1 | 10:33 | 10:52 | 19 | 2 | ALIVE | A | 164 |
| VM2 | 10:44 | 10:47 | 3 | 2 | ALIVE | A | 194 |
| VM3 | 10:48 | 10:54 | 6 | 2 | ALIVE | A | 198 |
| VM4 | 10:33 | 10:38 | 5 | 2 | ALIVE | A | 150 |
| VM5 | 10:39 | 10:42 | 3 | 2 | ALIVE | A | 163 |
| VM6 | 10:23 | 10:30 | 7 | 2 | ALIVE | A | 200 |
| VM7 | 10:29 | 10:33 | 4 | 2 | ALIVE | A | 135 |
| VM8 | 10:47 | 10:51 | 4 | 2 | ALIVE | A | 155 |
| VM9 | . | 10:51 | . | 2 | ALIVE | A | 177 |
| VN0 | 11:07 | 11:12 | 5 | 2 | ALIVE | A | 173 |
| VN1 | 11:13 | 11:17 | 4 | 2 | ALIVE | A | 140 |
| VN2 | 11:13 | 11:23 | 10 | 2 | ALIVE | A | 175 |
| VN3 | 11:08 | 11:13 | 5 | 2 | ALIVE | A | 195 |
| VN4 | 11:08 | 11:28 | 20 | 2 | ALIVE | A | 130 |
| VN5 | 11:32 | 11:38 | 6 | 2 | ALIVE | A | 135 |
| VN6 | 11:17 | 11:27 | 10 | 2 | ALIVE | A | 190 |
| VN7 | 11:27 | 11:31 | 4 | 2 | ALIVE | A | 140 |
| VN8 | 11:24 | 11:31 | 7 | 2 | ALIVE | A | 178 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VP0 | 11:38 | 11:54 | 16 | 2 | ALIVE | A | 135 | |
| VP1 | 11:41 | 11:50 | 9 | 2 | ALIVE | A | 141 | |
| VP2 | 11:48 | 11:56 | 8 | 2 | ALIVE | A | 132 | |
| VP3 | 11:34 | 11:37 | 3 | 2 | ALIVE | A | 176 | |
| VP4 | 11:37 | 11:41 | 4 | 2 | ALIVE | A | 191 | |
| VP5 | 12:00 | 12:14 | 14 | 2 | ALIVE | A | 195 | |
| VP6 | 11:56 | 12:01 | 5 | 2 | ALIVE | A | 190 | |
| VP7 | 11:57 | 12:01 | 4 | 2 | ALIVE | A | 190 | |
| VP8 | 12:01 | 12:23 | 22 | 2 | ALIVE | A | 189 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VP9 | 11:55 | 11:59 | 4 | 2 | ALIVE | A | 180 |
| VR0 | 12:38 | 12:43 | 5 | 2 | ALIVE | A | 131 |
| VR1 | 12:31 | 12:36 | 5 | 2 | ALIVE | A | 130 |
| VR2 | 12:32 | 12:38 | 6 | 2 | ALIVE | A | 185 |
| VR3 | 12:36 | 12:40 | 4 | 2 | ALIVE | A | 185 |
| VR4 | 12:32 | 12:38 | 6 | 2 | ALIVE | A | 172 |
| VR6 | 12:52 | 12:57 | 5 | 2 | ALIVE | A | 181 |
| VR7 | 12:43 | 12:54 | 11 | 2 | ALIVE | A | 186 |
| VR8 | 12:40 | 12:52 | 12 | 2 | ALIVE | A | 138 |
| VR9 | 12:54 | 13:01 | 7 | 2 | ALIVE | A | 140 |
| VS0 | 13:06 | 13:19 | 13 | 2 | ALIVE | A | 137 |
| VS1 | 12:59 | 13:04 | 5 | 2 | ALIVE | A | 188 |
| VS2 | 13:01 | 13:05 | 4 | 2 | ALIVE | A | 175 |
| VS3 | 13:04 | 13:21 | 17 | 2 | ALIVE | A | 150 |
| VS4 | 12:57 | 13:12 | 15 | 2 | ALIVE | A | 190 |
| VS5 | 13:23 | 13:28 | 5 | 2 | ALIVE | A | 175 |
| VS6 | 13:13 | 13:22 | 9 | 2 | ALIVE | A | 198 |
| VS7 | 13:19 | 13:23 | 4 | 2 | ALIVE | A | 190 |
| VS8 | 13:21 | 13:27 | 6 | 2 | ALIVE | A | 190 |
| VT0 | 13:44 | 13:54 | 10 | 2 | ALIVE | A | 196 |
| VT1 | 13:28 | 13:38 | 10 | 2 | ALIVE | A | 189 |
| VT2 | 13:41 | 13:44 | 3 | 2 | ALIVE | A | 130 |
| VT3 | 13:39 | 13:44 | 5 | 2 | ALIVE | A | 199 |
| VT4 | 13:28 | 13:39 | 11 | 2 | ALIVE | A | 139 |
| VT5 | 13:55 | 14:03 | 8 | 2 | ALIVE | A | 137 |
| VT6 | 13:46 | 13:51 | 5 | 2 | ALIVE | A | 176 |
| VT7 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 195 |
| VT8 | 13:59 | 14:03 | 4 | 2 | ALIVE | A | 145 |
| VT9 | 13:56 | 14:10 | 14 | 2 | ALIVE | A | 132 |
| VU0 | 14:18 | 14:29 | 11 | 2 | ALIVE | A | 141 |
| VU1 | 14:04 | 14:12 | 8 | 2 | ALIVE | A | 181 |
| VU2 | 14:10 | 14:20 | 10 | 2 | ALIVE | A | 182 |
| VU3 | 14:12 | 14:23 | 11 | 2 | ALIVE | A | 180 |
| VU4 | 14:06 | 14:16 | 10 | 2 | ALIVE | A | 193 |
| VU5 | 14:24 | 14:30 | 6 | 2 | ALIVE | A | 176 |
| VU6 | 14:39 | 14:46 | 7 | 2 | ALIVE | A | 181 |
| VU7 | 14:27 | 14:35 | 8 | 2 | ALIVE | A | 174 |
| VU8 | 14:32 | 14:45 | 13 | 2 | ALIVE | A | 186 |
| VU9 | 14:35 | 14:39 | 4 | 2 | ALIVE | A | 162 |
| VV0 | 14:55 | 14:56 | 1 | 2 | ALIVE | A | 180 |
| VV1 | 14:56 | 14:58 | 2 | 2 | ALIVE | A | 180 |
| VV2 | 14:57 | 15:02 | 5 | 2 | ALIVE | A | 168 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| VV3 | 14:52 | 14:54 | 2 | 2 | ALIVE | A | 185 | |
| VV4 | 14:58 | 15:00 | 2 | 2 | ALIVE | A | 140 | |
| VV5 | 14:53 | 14:55 | 2 | 2 | ALIVE | A | 130 | |
| VV6 | 14:52 | 14:55 | 3 | 2 | ALIVE | A | 130 | |
| VV7 | 15:00 | 15:04 | 4 | 2 | ALIVE | A | 132 | |
| VV8 | 14:59 | 15:10 | 11 | 2 | ALIVE | A | 180 | |
| VV9 | 15:02 | 15:05 | 3 | 2 | ALIVE | A | 186 | |
| VW0 | 15:17 | 15:22 | 5 | 2 | ALIVE | A | 181 | |
| VW1 | 15:09 | 15:11 | 2 | 2 | ALIVE | A | 193 | |
| VW2 | 15:18 | 15:22 | 4 | 2 | ALIVE | A | 155 | |
| VW3 | 15:25 | 15:28 | 3 | 2 | ALIVE | A | 140 | |
| VW4 | 15:28 | 15:32 | 4 | 2 | ALIVE | A | 130 | |
| VW5 | 15:23 | 15:28 | 5 | 2 | ALIVE | A | 185 | |
| VW6 | 15:06 | 15:16 | 10 | 2 | ALIVE | A | 181 | |
| VW7 | 15:21 | 15:24 | 3 | 2 | ALIVE | A | 184 | |
| VW8 | 15:05 | 15:07 | 2 | 2 | ALIVE | A | 188 | |
| VW9 | 15:22 | 15:27 | 5 | 2 | ALIVE | A | 185 | |
| VZ4 | 11:52 | 11:55 | 3 | 1 | DEAD | B | 178 | |
| VZ5 | 12:02 | 12:05 | 3 | 2 | ALIVE | A | 145 | |
| VZ6 | 14:21 | 14:27 | 6 | 2 | ALIVE | A | 136 | |
| VZ7 | 14:31 | 14:46 | 15 | 2 | ALIVE | A | 147 | |
| VZ8 | 15:17 | 15:22 | 5 | 2 | ALIVE | A | 186 | |
| 7 December 1999 - Testlot 22 : PL=1, Control - Water temp=49.0 C | | | | | | | | |
| CA0 | 9:28 | 9:31 | 3 | 2 | ALIVE | A | 170 | |
| CA1 | 9:21 | 9:28 | 7 | 2 | ALIVE | A | 193 | |
| CA2 | 9:09 | 9:13 | 4 | 2 | ALIVE | A | 136 | |
| CA3 | 9:10 | 9:14 | 4 | 2 | ALIVE | A | 170 | |
| CA4 | 9:26 | 9:30 | 4 | 2 | ALIVE | A | 179 | |
| CA5 | 9:14 | 9:28 | 14 | 2 | ALIVE | A | 185 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CA6 | 9:08 | 9:12 | 4 | 2 | ALIVE | A | 125 |
| CA7 | 9:22 | 9:26 | 4 | 2 | ALIVE | A | 200 |
| CA8 | 9:13 | 9:20 | 7 | 2 | ALIVE | A | 183 |
| CA9 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 180 |
| CB0 | 9:37 | 9:41 | 4 | 2 | ALIVE | A | 186 |
| CB1 | 9:46 | 9:50 | 4 | 2 | ALIVE | A | 182 |
| CB2 | 9:31 | 9:33 | 2 | 2 | ALIVE | A | 187 |
| CB3 | 9:36 | 9:46 | 10 | 2 | ALIVE | A | 149 |
| CB4 | 9:34 | 9:37 | 3 | 2 | ALIVE | A | 173 |
| CB5 | 9:29 | 9:31 | 2 | 2 | ALIVE | A | 178 |
| CB6 | 9:32 | 9:36 | 4 | 2 | ALIVE | A | 174 |
| CB7 | 9:30 | 9:36 | 6 | 2 | ALIVE | A | 182 |
| CB8 | 9:37 | 9:45 | 8 | 2 | ALIVE | A | 196 |
| CB9 | 9:41 | 9:47 | 6 | 2 | ALIVE | A | 171 |
| CC0 | 9:50 | 9:57 | 7 | 2 | ALIVE | A | 195 |
| CC1 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 174 |
| CC2 | 10:01 | 10:05 | 4 | 2 | ALIVE | A | 138 |
| CC3 | 9:57 | 10:00 | 3 | 2 | ALIVE | A | 154 |
| CC4 | 9:47 | 9:57 | 10 | 2 | ALIVE | A | 180 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| CC5 | 9:52 | 9:55 | 3 | 2 | ALIVE | A | 176 | |
| CC6 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 176 | |
| CC7 | 10:00 | 10:10 | 10 | 2 | ALIVE | A | 175 | |
| CC8 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 210 | |
| CC9 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 180 | |
| CD0 | 10:13 | 10:17 | 4 | 2 | ALIVE | A | 180 | |
| CD1 | 10:17 | 10:20 | 3 | 2 | ALIVE | A | 205 | |
| CD2 | 10:27 | 10:32 | 5 | 2 | ALIVE | A | 164 | |
| CD3 | 10:22 | 10:27 | 5 | 2 | ALIVE | A | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CD4 | 10:18 | 10:21 | 3 | 2 | ALIVE | A | 192 |
| CD5 | 10:20 | 10:27 | 7 | 2 | ALIVE | A | 178 |
| CD6 | 10:21 | 10:26 | 5 | 2 | ALIVE | A | 132 |
| CD7 | 10:14 | 10:17 | 3 | 2 | ALIVE | A | 190 |
| CD8 | 10:14 | 10:18 | 4 | 2 | ALIVE | A | 192 |
| CD9 | 10:18 | 10:22 | 4 | 2 | ALIVE | A | 181 |
| CE0 | 10:50 | 10:56 | 6 | 2 | ALIVE | A | 188 |
| CE1 | 10:44 | 10:50 | 6 | 2 | ALIVE | A | 186 |
| CE2 | 10:47 | 10:57 | 10 | 2 | ALIVE | A | 162 |
| CE3 | 10:47 | 11:01 | 14 | 2 | ALIVE | A | 173 |
| CE4 | 10:56 | 11:00 | 4 | 2 | ALIVE | A | 150 |
| CE5 | 10:59 | 11:05 | 6 | 2 | ALIVE | A | 179 |
| CE6 | 11:06 | 11:12 | 6 | 2 | ALIVE | A | 189 |
| CE7 | 11:07 | 11:14 | 7 | 2 | ALIVE | A | 156 |
| CE8 | 11:01 | 11:06 | 5 | 2 | ALIVE | A | 198 |
| CE9 | 11:04 | 11:07 | 3 | 2 | ALIVE | A | 192 |
| CF0 | 11:18 | 11:22 | 4 | 2 | ALIVE | A | 184 |
| CF1 | 11:12 | 11:18 | 6 | 2 | ALIVE | A | 189 |
| CF2 | 11:18 | 11:23 | 5 | 2 | ALIVE | A | 149 |
| CF3 | 11:09 | 11:17 | 8 | 2 | ALIVE | A | 196 |
| CF4 | 11:14 | 11:27 | 13 | 2 | ALIVE | A | 198 |
| CF5 | 11:23 | 11:30 | 7 | 2 | ALIVE | A | 200 |
| CF6 | 11:27 | 11:32 | 5 | 2 | ALIVE | A | 195 |
| CF7 | 11:24 | 11:31 | 7 | 2 | ALIVE | A | 192 |
| CF8 | 11:30 | 11:35 | 5 | 2 | ALIVE | A | 191 |
| CF9 | 11:32 | 11:35 | 3 | 2 | ALIVE | A | 189 |
| CH0 | 11:56 | 12:02 | 6 | 2 | ALIVE | A | 176 |
| CH1 | 11:58 | 12:02 | 4 | 2 | ALIVE | A | 177 |
| CH2 | 11:51 | 11:55 | 4 | 2 | ALIVE | A | 190 |
| CH3 | 11:52 | 11:59 | 7 | 2 | ALIVE | A | 180 |
| CH4 | 11:52 | 11:58 | 6 | 2 | ALIVE | A | 189 |
| CH5 | 12:05 | 12:26 | 21 | 2 | ALIVE | A | 180 |
| CH6 | 12:04 | 12:12 | 8 | 2 | ALIVE | A | 182 |
| CH7 | 12:06 | 12:11 | 5 | 2 | ALIVE | A | 195 |
| CH8 | 12:02 | 12:06 | 4 | 2 | ALIVE | A | 186 |
| CH9 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 138 |
| CJ0 | 12:23 | 12:38 | 15 | 2 | ALIVE | A | 170 |
| CJ1 | 12:19 | 12:22 | 3 | 2 | ALIVE | A | 131 |
| CJ2 | 12:13 | 12:19 | 6 | 2 | ALIVE | A | 185 |
| CJ3 | 12:12 | 12:19 | 7 | 2 | ALIVE | A | 150 |
| CJ4 | 12:19 | 12:23 | 4 | 2 | ALIVE | A | 194 |
| CJ5 | 12:39 | 12:53 | 14 | 2 | ALIVE | A | 185 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| CJ6 | 12:29 | 12:38 | 9 | 2 | ALIVE | A | 185 | |
| CJ7 | 12:31 | 12:48 | 17 | 2 | ALIVE | A | 184 | |
| CJ8 | 12:26 | 12:29 | 3 | 2 | ALIVE | A | 173 | |
| CJ9 | 12:39 | 12:45 | 6 | 2 | ALIVE | A | 178 | |
| CK0 | 13:08 | 13:11 | 3 | 2 | ALIVE | A | 182 | |
| CK1 | 13:11 | 13:15 | 4 | 2 | ALIVE | A | 171 | |
| CK2 | 13:08 | 13:27 | 19 | 2 | ALIVE | A | 179 | |
| CK3 | 13:13 | 13:17 | 4 | 2 | ALIVE | A | 140 | |
| CK4 | 13:08 | 13:15 | 7 | 2 | ALIVE | A | 152 | |
| CK5 | 13:22 | 13:25 | 3 | 2 | ALIVE | A | 185 | |
| CK6 | 13:20 | 13:32 | 12 | 2 | ALIVE | A | 181 | |
| CK7 | 13:15 | 13:38 | 23 | 2 | ALIVE | A | 180 | |
| CK8 | 13:17 | 13:20 | 3 | 2 | ALIVE | A | 191 | |
| CK9 | 13:25 | 13:29 | 4 | 2 | ALIVE | A | 143 | |
| CL0 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 193 | |
| CL1 | 13:33 | 14:10 | 37 | 2 | ALIVE | A | 193 | |
| CL2 | 13:47 | 13:51 | 4 | 2 | ALIVE | A | 185 | |
| CL3 | 13:39 | 13:46 | 7 | 2 | ALIVE | A | 173 | |
| CL4 | 13:28 | 14:12 | 44 | 1 | ALIVE | A | 177 | |
| CL5 | 14:16 | 14:21 | 5 | 2 | ALIVE | A | 181 | |
| CL6 | 13:59 | 14:26 | 27 | 2 | ALIVE | A | 188 | |
| CL7 | 14:07 | 14:19 | 12 | 2 | ALIVE | A | 142 | |
| CL8 | 14:07 | 14:09 | 2 | 1 | DEAD | B | 187 | |
| CL9 | 14:08 | 14:18 | 10 | 2 | ALIVE | A | 194 | |
| CM0 | 14:18 | 14:28 | 10 | 2 | ALIVE | A | 165 | |
| VX0 | 7:23 | 7:40 | 17 | 2 | ALIVE | A | 178 | |
| VX1 | 7:24 | 7:32 | 8 | 2 | ALIVE | A | 195 | |
| VX2 | 7:25 | 7:35 | 10 | 2 | ALIVE | H | 134 | |
| VX3 | 7:36 | 7:47 | 11 | 2 | ALIVE | A | 132 | |
| VX4 | 7:33 | 7:37 | 4 | 2 | ALIVE | A | 190 | |
| VX5 | 7:40 | 7:56 | 16 | 2 | ALIVE | A | 182 | |
| VX6 | 7:56 | 8:14 | 18 | 2 | ALIVE | A | 183 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VX7 | 7:48 | 8:13 | 25 | 2 | ALIVE | A | 185 |
| VX8 | 7:38 | 7:56 | 18 | 2 | ALIVE | A | 165 |
| VX9 | 7:57 | 8:03 | 6 | 2 | ALIVE | A | 186 |
| VY0 | 8:23 | 8:26 | 3 | 2 | ALIVE | A | 130 |
| VY1 | 8:04 | . | . | 0 | TAG & PIN | | 134 |
| VY2 | 8:15 | 8:20 | 5 | 2 | DEAD | HJ | 182 |
| VY3 | 8:13 | 8:20 | 7 | 2 | ALIVE | H | 179 |
| VY4 | 8:21 | 8:40 | 19 | 2 | ALIVE | A | 190 |
| VY5 | 8:40 | 8:45 | 5 | 2 | ALIVE | A | 178 |
| VY6 | 8:47 | 9:02 | 15 | 2 | ALIVE | A | 142 |
| VY7 | 8:39 | 8:46 | 7 | 2 | ALIVE | A | 197 |
| VY9 | 8:26 | 8:47 | 21 | 2 | ALIVE | A | 184 |
| VZ9 | 12:25 | 12:31 | 6 | 2 | ALIVE | A | 205 |
| 8 December 1999 - Testlot 23 : PL=3, Unit 6, Hub - Water temp= 9.5 C | | | | | | | |
| C00 | 14:15 | 14:27 | 12 | 2 | ALIVE | A | 195 |
| C01 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 191 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| C02 | 14:06 | 14:11 | 5 | 2 | ALIVE | A | 200 | |
| C03 | 14:14 | 14:20 | 6 | 2 | ALIVE | A | 186 | |
| C04 | 14:11 | 14:16 | 5 | 2 | ALIVE | A | 138 | |
| C05 | 14:20 | 14:26 | 6 | 2 | ALIVE | A | 199 | |
| C06 | 14:32 | 14:37 | 5 | 2 | ALIVE | A | 186 | |
| C07 | 14:36 | 14:42 | 6 | 2 | ALIVE | A | 199 | |
| C08 | 14:27 | 14:32 | 5 | 2 | ALIVE | A | 181 | |
| C09 | 14:28 | 14:39 | 11 | 2 | ALIVE | A | 183 | |
| CM1 | 14:22 | 14:28 | 6 | 2 | ALIVE | A | 196 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CN0 | 7:20 | 7:34 | 14 | 2 | ALIVE | A | 198 |
| CN1 | 7:21 | 7:27 | 6 | 2 | ALIVE | A | 196 |
| CN2 | 7:27 | 7:33 | 6 | 2 | ALIVE | A | 144 |
| CN3 | 7:35 | 7:41 | 6 | 2 | ALIVE | A | 140 |
| CN4 | 7:21 | 7:34 | 13 | 2 | ALIVE | A | 178 |
| CN5 | 7:44 | 7:53 | 9 | 2 | ALIVE | A | 192 |
| CN6 | 7:41 | 7:47 | 6 | 2 | ALIVE | A | 178 |
| CN7 | 7:46 | . | . | 0 | DEAD | Z | 135 |
| CN8 | 7:37 | 7:44 | 7 | 2 | ALIVE | A | 126 |
| CN9 | 7:37 | 7:45 | 8 | 2 | ALIVE | A | 176 |
| CP0 | 7:53 | 8:09 | 16 | 2 | ALIVE | A | 173 |
| CP1 | 7:48 | 7:54 | 6 | 2 | ALIVE | A | 185 |
| CP2 | 8:08 | 8:13 | 5 | 2 | ALIVE | A | 181 |
| CP3 | 7:54 | 8:03 | 9 | 2 | ALIVE | A | 175 |
| CP4 | 8:04 | 8:07 | 3 | 2 | ALIVE | A | 180 |
| CP5 | 8:10 | 8:17 | 7 | 2 | ALIVE | A | 186 |
| CP6 | 8:20 | 8:25 | 5 | 2 | ALIVE | A | 184 |
| CP7 | 8:14 | 8:20 | 6 | 2 | ALIVE | A | 188 |
| CP8 | 8:17 | 8:21 | 4 | 2 | ALIVE | A | 186 |
| CP9 | 8:18 | 8:35 | 17 | 2 | ALIVE | A | 145 |
| CR0 | 8:59 | 9:10 | 11 | 2 | ALIVE | A | 146 |
| CR1 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 147 |
| CR2 | 9:00 | 9:03 | 3 | 2 | ALIVE | A | 167 |
| CR3 | 8:51 | 8:55 | 4 | 2 | ALIVE | A | 180 |
| CR4 | 9:07 | 9:11 | 4 | 2 | ALIVE | A | 146 |
| CR5 | 8:52 | 9:00 | 8 | 2 | ALIVE | A | 200 |
| CR6 | 8:56 | 8:59 | 3 | 2 | ALIVE | A | 185 |
| CR7 | 9:01 | 9:06 | 5 | 2 | ALIVE | A | 198 |
| CR8 | 8:58 | 9:01 | 3 | 2 | ALIVE | A | 140 |
| CR9 | 8:51 | 8:57 | 6 | 2 | ALIVE | A | 197 |
| CS0 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 192 |
| CS1 | 9:12 | 9:19 | 7 | 2 | ALIVE | A | 203 |
| CS2 | 9:27 | 9:30 | 3 | 2 | ALIVE | A | 144 |
| CS3 | 9:21 | 9:31 | 10 | 2 | ALIVE | A | 178 |
| CS4 | 9:20 | 9:24 | 4 | 2 | ALIVE | A | 142 |
| CS5 | 9:12 | 9:15 | 3 | 2 | ALIVE | A | 129 |
| CS6 | 9:25 | 9:27 | 2 | 2 | ALIVE | A | 139 |
| CS7 | 9:10 | 9:21 | 11 | 2 | ALIVE | A | 185 |
| CS8 | 9:16 | 9:21 | 5 | 2 | ALIVE | A | 130 |
| CS9 | 9:22 | 9:27 | 5 | 2 | ALIVE | A | 169 |
| CT0 | 9:43 | 9:51 | 8 | 2 | ALIVE | A | 171 |
| CT1 | 9:37 | 9:53 | 16 | 2 | ALIVE | A | 169 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| CT2 | 9:36 | 9:43 | 7 | 2 | ALIVE | A | 194 | |
| CT3 | 9:40 | 9:49 | 9 | 2 | ALIVE | A | 177 | |
| CT4 | 9:37 | 9:40 | 3 | 2 | ALIVE | A | 200 | |
| CT5 | 9:58 | 10:08 | 10 | 2 | ALIVE | A | 182 | |
| CT7 | 9:47 | 9:58 | 11 | 2 | ALIVE | A | 188 | |
| CT8 | 9:52 | 10:01 | 9 | 2 | ALIVE | A | 149 | |
| CT9 | 10:02 | 10:05 | 3 | 2 | ALIVE | A | 144 | |
| CU0 | 10:17 | 10:21 | 4 | 2 | ALIVE | A | 179 | |
| CU1 | 10:16 | 10:30 | 14 | 2 | ALIVE | A | 127 | |
| CU2 | 10:22 | 10:26 | 4 | 2 | ALIVE | A | 195 | |
| CU3 | 10:08 | 10:16 | 8 | 2 | ALIVE | A | 190 | |
| CU4 | 10:05 | 10:17 | 12 | 2 | ALIVE | A | 186 | |
| CU5 | 10:25 | 10:38 | 13 | 2 | ALIVE | A | 202 | |
| CU6 | 10:31 | 10:35 | 4 | 2 | ALIVE | A | 200 | |
| CU7 | 10:27 | 10:34 | 7 | 2 | ALIVE | A | 167 | |
| CU8 | 10:34 | 10:40 | 6 | 2 | ALIVE | A | 196 | |
| CU9 | 10:36 | 10:45 | 9 | 2 | ALIVE | A | 142 | |
| CV0 | 11:42 | 11:46 | 4 | 2 | ALIVE | A | 183 | |
| CV1 | 11:44 | 11:47 | 3 | 2 | ALIVE | A | 177 | |
| CV2 | 11:47 | 11:50 | 3 | 2 | ALIVE | A | 190 | |
| CV3 | 11:41 | 11:43 | 2 | 2 | ALIVE | A | 170 | |
| CV4 | 11:41 | 12:00 | 19 | 2 | ALIVE | A | 189 | |
| CV5 | 11:49 | 11:52 | 3 | 2 | ALIVE | A | 130 | |
| CV6 | 11:56 | 12:18 | 22 | 2 | ALIVE | A | 150 | |
| CV7 | 12:01 | 12:08 | 7 | 2 | ALIVE | A | 180 | |
| CV8 | 11:51 | 12:11 | 20 | 2 | ALIVE | A | 173 | |
| CV9 | 11:55 | 11:55 | 0 | 2 | ALIVE | A | 186 | |
| CW0 | 12:08 | 12:14 | 6 | 2 | ALIVE | A | 190 | |
| CW1 | 12:15 | 12:19 | 4 | 2 | ALIVE | A | 172 | |
| CW2 | 12:14 | 12:18 | 4 | 2 | ALIVE | A | 185 | |
| CW3 | 12:11 | 12:14 | 3 | 2 | ALIVE | A | 194 | |
| CW4 | 12:18 | 12:24 | 6 | 2 | ALIVE | A | 196 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CW5 | 12:21 | 12:26 | 5 | 2 | ALIVE | A | 135 |
| CW6 | 12:25 | . | . | 0 | TAG & PIN | | 202 |
| CW7 | 12:24 | 12:31 | 7 | 2 | ALIVE | A | 175 |
| CW8 | 12:20 | 12:23 | 3 | 2 | ALIVE | A | 182 |
| CW9 | 12:23 | 12:27 | 4 | 2 | ALIVE | A | 185 |
| CX0 | 13:01 | 13:09 | 8 | 2 | ALIVE | A | 191 |
| CX1 | 12:57 | 13:00 | 3 | 2 | ALIVE | A | 165 |
| CX2 | 12:57 | 13:01 | 4 | 2 | ALIVE | A | 186 |
| CX3 | 13:10 | 13:13 | 3 | 2 | ALIVE | A | 191 |
| CX4 | 13:14 | 13:24 | 10 | 2 | ALIVE | A | 139 |
| CX5 | 13:00 | 13:05 | 5 | 2 | ALIVE | A | 180 |
| CX6 | 13:08 | 13:14 | 6 | 2 | ALIVE | A | 185 |
| CX7 | 13:14 | 13:16 | 2 | 2 | ALIVE | A | 172 |
| CX8 | 13:06 | 13:08 | 2 | 2 | ALIVE | A | 165 |
| CX9 | 13:15 | 13:21 | 6 | 2 | ALIVE | A | 136 |
| CY0 | 13:21 | 13:25 | 4 | 2 | ALIVE | A | 174 |
| CY1 | 13:28 | 13:36 | 8 | 2 | ALIVE | A | 197 |
| CY2 | 13:21 | 13:24 | 3 | 2 | ALIVE | A | 187 |
| CY3 | 13:26 | 13:30 | 4 | 2 | ALIVE | A | 188 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| CY4 | 13:31 | 13:34 | 3 | 2 | ALIVE | A | 190 | |
| CY5 | 13:25 | 13:32 | 7 | 2 | ALIVE | A | 175 | |
| CY6 | 13:17 | 13:20 | 3 | 2 | ALIVE | A | 203 | |
| CY7 | 13:32 | 13:36 | 4 | 2 | ALIVE | A | 174 | |
| CY8 | 13:35 | 13:36 | 1 | 2 | ALIVE | A | 178 | |
| CY9 | 13:24 | 13:27 | 3 | 2 | ALIVE | A | 149 | |
| CZ0 | 13:44 | 13:47 | 3 | 2 | ALIVE | A | 184 | |
| CZ1 | 13:45 | 13:51 | 6 | 2 | ALIVE | A | 188 | |
| CZ2 | 13:49 | 13:53 | 4 | 2 | ALIVE | A | 190 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CZ3 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 183 |
| CZ4 | 13:48 | 13:58 | 10 | 2 | ALIVE | A | 160 |
| CZ5 | 13:52 | 13:55 | 3 | 2 | ALIVE | A | 184 |
| CZ6 | 13:57 | 14:15 | 18 | 2 | ALIVE | A | 176 |
| CZ7 | 13:59 | 14:03 | 4 | 2 | ALIVE | A | 170 |
| CZ8 | 13:54 | 13:56 | 2 | 2 | ALIVE | A | 184 |
| CZ9 | 13:56 | . | . | 0 | DEAD | Z | 194 |

9 December 1999 - Testlot 24 : PL=2, Unit 6, Tip - Water temp=48.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C10 | 7:59 | 8:09 | 10 | 2 | ALIVE | A | 197 |
| C11 | 8:05 | 8:16 | 11 | 2 | ALIVE | A | 172 |
| C12 | 8:10 | 8:17 | 7 | 2 | ALIVE | A | 183 |
| C13 | 8:21 | 8:36 | 15 | 2 | ALIVE | A | 172 |
| C14 | 8:23 | 8:33 | 10 | 2 | ALIVE | A | 188 |
| C15 | 8:15 | 8:22 | 7 | 2 | ALIVE | A | 177 |
| C16 | 8:17 | 8:27 | 10 | 2 | ALIVE | A | 196 |
| C17 | 8:38 | 8:42 | 4 | 2 | ALIVE | A | 187 |
| C18 | 8:37 | 8:45 | 8 | 2 | ALIVE | A | 176 |
| C19 | 8:34 | 8:40 | 6 | 2 | ALIVE | A | 180 |
| C20 | 8:41 | 8:45 | 4 | 2 | ALIVE | A | 206 |
| C21 | 8:29 | 8:36 | 7 | 2 | ALIVE | A | 192 |
| C22 | 8:55 | 8:58 | 3 | 2 | ALIVE | A | 159 |
| C23 | 9:00 | 9:02 | 2 | 2 | ALIVE | A | 188 |
| C24 | 9:03 | 9:07 | 4 | 2 | ALIVE | A | 198 |
| C25 | 8:54 | 9:06 | 12 | 2 | ALIVE | A | 193 |
| C26 | 8:56 | 9:02 | 6 | 2 | ALIVE | A | 155 |
| C27 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 177 |
| C28 | 9:04 | 9:11 | 7 | 2 | ALIVE | A | 183 |
| C29 | 9:14 | 9:16 | 2 | 2 | ALIVE | A | 180 |
| C30 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 162 |
| C31 | 9:06 | 9:16 | 10 | 2 | ALIVE | A | 136 |
| C32 | 9:20 | 9:24 | 4 | 2 | ALIVE | A | 191 |
| C33 | 9:30 | 9:37 | 7 | 2 | ALIVE | A | 197 |
| C34 | 9:29 | 9:55 | 26 | 2 | ALIVE | A | 188 |
| C35 | 9:41 | 9:47 | 6 | 2 | ALIVE | A | 190 |
| C36 | 9:38 | 9:40 | 2 | 2 | ALIVE | A | 144 |
| C37 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 183 |
| C38 | 9:25 | 9:28 | 3 | 2 | ALIVE | A | 184 |
| C39 | 9:18 | 9:23 | 5 | 2 | ALIVE | A | 172 |
| C40 | 9:29 | 9:41 | 12 | 2 | ALIVE | A | 178 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| C41 | 9:17 | 9:25 | 8 | 2 | ALIVE | A | 187 | |
| C42 | 10:02 | 10:07 | 5 | 2 | ALIVE | A | 177 | |
| C43 | 10:07 | 10:12 | 5 | 2 | ALIVE | A | 164 | |
| C45 | 10:04 | 10:09 | 5 | 2 | ALIVE | A | 150 | |
| C46 | 10:03 | 10:21 | 18 | 2 | ALIVE | A | 131 | |
| C47 | 10:22 | 10:29 | 7 | 2 | ALIVE | A | 171 | |
| C48 | 10:29 | 10:36 | 7 | 2 | ALIVE | A | 180 | |
| C49 | 10:18 | 10:22 | 4 | 2 | ALIVE | A | 186 | |
| C50 | 10:26 | . | . | 0 | DEAD | Z | 182 | |
| C51 | 10:13 | 10:17 | 4 | 2 | ALIVE | A | 161 | |
| C52 | 10:38 | 10:42 | 4 | 2 | ALIVE | A | 182 | |
| C53 | 10:44 | 10:52 | 8 | 2 | ALIVE | A | 186 | |
| C54 | 10:42 | 10:55 | 13 | 2 | ALIVE | A | 176 | |
| C55 | 10:39 | 10:41 | 2 | 2 | ALIVE | A | 165 | |
| C56 | 10:54 | 11:01 | 7 | 2 | ALIVE | A | 157 | |
| C57 | 11:02 | 11:12 | 10 | 2 | ALIVE | A | 188 | |
| C58 | 10:57 | 11:01 | 4 | 2 | ALIVE | A | 177 | |
| C59 | 11:13 | 11:16 | 3 | 2 | ALIVE | A | 192 | |
| C60 | 11:03 | 11:18 | 15 | 2 | ALIVE | A | 134 | |
| C61 | 11:10 | 11:14 | 4 | 2 | ALIVE | A | 185 | |
| C62 | 11:33 | 11:38 | 5 | 2 | ALIVE | A | 187 | |
| C63 | 11:31 | 11:33 | 2 | 2 | ALIVE | A | 180 | |
| C64 | 11:35 | 11:43 | 8 | 2 | ALIVE | A | 180 | |
| C65 | 11:34 | 11:37 | 3 | 2 | ALIVE | A | 187 | |
| C66 | 11:29 | 11:32 | 3 | 2 | ALIVE | A | 146 | |
| C67 | 11:32 | 11:34 | 2 | 2 | ALIVE | A | 177 | |
| C68 | 11:28 | 11:30 | 2 | 2 | ALIVE | A | 188 | |
| C69 | 11:36 | 11:40 | 4 | 2 | ALIVE | A | 176 | |
| C70 | 11:38 | 11:48 | 10 | 2 | ALIVE | A | 182 | |
| C71 | 11:28 | 11:31 | 3 | 2 | ALIVE | A | 135 | |
| C72 | 11:47 | 11:48 | 1 | 2 | ALIVE | A | 181 | |
| C73 | 11:50 | 11:52 | 2 | 2 | ALIVE | A | 188 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C74 | 11:49 | 11:50 | 1 | 2 | ALIVE | A | 198 | |
| C75 | 11:41 | 11:45 | 4 | 2 | ALIVE | A | 133 | |
| C76 | 11:44 | 11:46 | 2 | 2 | ALIVE | A | 125 | |
| C77 | 11:54 | 12:01 | 7 | 2 | ALIVE | A | 186 | |
| C78 | 11:52 | 11:54 | 2 | 2 | ALIVE | A | 187 | |
| C79 | 11:46 | 11:53 | 7 | 2 | ALIVE | A | 176 | |
| C80 | 11:55 | 11:57 | 2 | 2 | ALIVE | A | 203 | |
| C81 | 11:53 | 11:55 | 2 | 2 | ALIVE | A | 192 | |
| C82 | 12:14 | 12:21 | 7 | 2 | ALIVE | A | 192 | |
| C83 | 12:19 | 12:23 | 4 | 2 | ALIVE | A | 190 | |
| C84 | 12:15 | 12:18 | 3 | 2 | ALIVE | A | 192 | |
| C85 | 12:15 | 12:19 | 4 | 2 | ALIVE | A | 178 | |
| C86 | 12:20 | 12:24 | 4 | 2 | ALIVE | A | 180 | |
| C87 | 12:26 | 12:35 | 9 | 2 | ALIVE | A | 143 | |
| C88 | 12:25 | 12:29 | 4 | 2 | ALIVE | A | 174 | |
| C89 | 12:23 | 12:26 | 3 | 2 | ALIVE | A | 178 | |
| C90 | 12:28 | . | . | 0 | TAG & PIN | | 157 | |
| C91 | 12:31 | 12:33 | 2 | 2 | ALIVE | A | 182 | |
| C92 | 12:37 | 12:42 | 5 | 2 | ALIVE | A | 186 | |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| C93 | 12:37 | 12:39 | 2 | 2 | ALIVE | A | 177 | |
| C94 | 12:39 | 12:47 | 8 | 2 | ALIVE | A | 167 | |
| C95 | 12:42 | 12:45 | 3 | 2 | ALIVE | A | 180 | |
| C96 | 12:35 | 12:36 | 1 | 2 | ALIVE | A | 183 | |
| C98 | 12:49 | 12:51 | 2 | 2 | ALIVE | A | 176 | |
| C99 | 13:00 | 13:05 | 5 | 2 | ALIVE | A | 196 | |
| CM2 | 7:41 | 7:46 | 5 | 2 | ALIVE | A | 180 | |
| CM3 | 7:39 | 7:48 | 9 | 2 | ALIVE | A | 182 | |
| CM4 | 7:43 | 7:50 | 7 | 2 | ALIVE | A | 194 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CM5 | 7:40 | 7:42 | 2 | 2 | ALIVE | A | 172 |
| CM6 | 7:47 | 7:55 | 8 | 2 | ALIVE | A | 172 |
| CM9 | 7:51 | 8:04 | 13 | 2 | ALIVE | A | 192 |
| M00 | 12:58 | 12:59 | 1 | 1 | DEAD | EN | 194 |
| M01 | 12:52 | 12:54 | 2 | 2 | ALIVE | H | 190 |
| M02 | 13:19 | 13:23 | 4 | 1 | ALIVE | HB | 178 |
| M03 | 13:12 | 13:14 | 2 | 2 | ALIVE | A | 188 |
| M04 | 13:11 | 13:16 | 5 | 2 | ALIVE | A | 192 |
| M05 | 13:17 | 13:18 | 1 | 2 | ALIVE | A | 192 |
| M06 | 13:12 | 13:20 | 8 | 2 | ALIVE | A | 174 |
| M07 | 13:16 | 13:18 | 2 | 2 | ALIVE | A | 176 |
| M08 | 13:46 | 13:53 | 7 | 2 | ALIVE | A | 180 |
| M09 | 13:53 | 13:57 | 4 | 2 | ALIVE | A | 192 |
| M10 | 13:45 | 13:51 | 6 | 2 | ALIVE | A | 189 |
| M11 | 13:52 | 13:54 | 2 | 2 | ALIVE | A | 178 |
| M12 | 13:44 | 14:01 | 17 | 2 | ALIVE | A | 171 |
| M13 | 13:58 | 14:03 | 5 | 2 | ALIVE | A | 142 |
| M14 | 13:56 | 14:12 | 16 | 2 | ALIVE | A | 127 |
| M15 | 14:02 | 14:18 | 16 | 2 | ALIVE | A | 176 |
| M16 | 14:04 | 14:15 | 11 | 2 | ALIVE | A | 172 |
| M17 | 14:13 | 14:19 | 6 | 2 | ALIVE | A | 172 |
| M19 | 14:19 | 14:23 | 4 | 2 | ALIVE | A | 165 |
| M20 | 14:26 | 14:28 | 2 | 2 | ALIVE | A | 175 |
| M22 | 14:20 | 14:25 | 5 | 2 | ALIVE | A | 177 |
| M23 | 14:55 | 15:00 | 5 | 2 | ALIVE | A | 182 |
| M24 | 14:56 | 15:02 | 6 | 1 | ALIVE | A | 183 |
| M25 | 14:30 | 14:48 | 18 | 2 | ALIVE | A | 144 |
| M26 | 14:46 | 14:55 | 9 | 2 | ALIVE | A | 187 |
| M27 | 14:55 | 14:56 | 1 | 2 | ALIVE | A | 183 |
| M28 | 15:03 | 15:05 | 2 | 2 | ALIVE | A | 152 |
| M29 | 15:02 | 15:11 | 9 | 2 | ALIVE | A | 176 |
| M30 | 15:07 | 15:27 | 20 | 2 | ALIVE | A | 180 |
| M31 | 15:13 | 15:35 | 22 | 2 | ALIVE | A | 197 |
| M32 | 15:12 | 15:18 | 6 | 2 | ALIVE | A | 192 |
| M33 | 14:58 | 15:11 | 13 | 2 | ALIVE | A | 140 |
| M34 | 15:35 | . | . | 0 | UNKNOWN | X | 190 |
| M35 | 15:28 | 15:56 | 28 | 2 | ALIVE | A | 142 |
| M36 | 15:20 | 15:33 | 13 | 2 | ALIVE | A | 135 |
| M99 | 13:22 | 13:32 | 10 | 2 | ALIVE | A | 192 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 10 December 1999 - Testlot 25 : PL=2, Unit 5, Hub - Water temp=48.0 C | | | | | | | | |
| M37 | 7:35 | 7:38 | 3 | 2 | ALIVE | A | 179 | |
| M38 | 7:37 | 7:50 | 13 | 2 | ALIVE | A | 172 | |
| M39 | 7:39 | 7:49 | 10 | 2 | ALIVE | A | 183 | |
| M40 | 7:36 | 7:40 | 4 | 2 | ALIVE | A | 136 | |
| M41 | 7:43 | 8:06 | 23 | 1 | ALIVE | A | 185 | |
| M42 | 8:07 | 8:23 | 16 | 2 | ALIVE | A | 181 | |
| M43 | 7:59 | 8:08 | 9 | 2 | ALIVE | A | 163 | |
| M44 | 8:09 | 8:38 | 29 | 2 | ALIVE | A | 203 | |
| M45 | 7:49 | 7:57 | 8 | 2 | ALIVE | A | 181 | |
| M46 | 7:51 | 8:08 | 17 | 2 | ALIVE | A | 133 | |
| M47 | 8:24 | 8:33 | 9 | 2 | ALIVE | A | 149 | |
| M48 | 8:37 | 8:40 | 3 | 2 | ALIVE | A | 193 | |
| M49 | 8:23 | 8:39 | 16 | 2 | ALIVE | A | 177 | |
| M50 | 8:11 | 8:22 | 11 | 2 | ALIVE | A | 135 | |
| M51 | 8:34 | 8:38 | 4 | 2 | ALIVE | A | 192 | |
| M52 | 8:45 | 9:09 | 24 | 2 | ALIVE | A | 145 | |
| M53 | 8:48 | 8:53 | 5 | 2 | ALIVE | A | 190 | |
| M54 | 8:40 | 8:56 | 16 | 2 | ALIVE | A | 145 | |
| M55 | 8:40 | 8:44 | 4 | 2 | ALIVE | A | 182 | |
| M56 | 8:50 | 8:55 | 5 | 2 | ALIVE | A | 191 | |
| M57 | 9:04 | 9:14 | 10 | 2 | ALIVE | A | 138 | |
| M58 | 9:12 | 9:38 | 26 | 2 | ALIVE | A | 179 | |
| M59 | 9:10 | 9:31 | 21 | 2 | ALIVE | A | 130 | |
| M60 | 9:15 | 9:17 | 2 | 2 | ALIVE | A | 142 | |
| M61 | 9:18 | 9:29 | 11 | 2 | ALIVE | A | 181 | |
| M62 | 9:32 | 9:39 | 7 | 2 | ALIVE | A | 143 | |
| M63 | 9:31 | 9:36 | 5 | 2 | ALIVE | A | 145 | |
| M64 | 9:30 | 9:34 | 4 | 2 | ALIVE | A | 139 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M65 | 9:35 | 9:47 | 12 | 2 | ALIVE | A | 179 |
| M66 | 9:37 | 9:47 | 10 | 2 | ALIVE | A | 205 |
| M67 | 9:44 | 10:01 | 17 | 2 | ALIVE | A | 176 |
| M68 | 9:45 | 9:48 | 3 | 2 | ALIVE | A | 178 |
| M69 | 9:41 | 9:43 | 2 | 2 | ALIVE | A | 131 |
| M70 | 9:46 | 9:52 | 6 | 2 | ALIVE | A | 165 |
| M71 | 9:40 | 9:43 | 3 | 2 | ALIVE | A | 140 |
| M72 | 9:53 | 9:57 | 4 | 2 | ALIVE | A | 182 |
| M73 | 9:49 | 9:56 | 7 | 2 | ALIVE | A | 174 |
| M74 | 9:59 | 10:02 | 3 | 2 | ALIVE | A | 174 |
| M75 | 9:55 | 9:57 | 2 | 2 | ALIVE | A | 186 |
| M76 | 9:58 | 10:02 | 4 | 2 | ALIVE | A | 194 |
| M77 | 10:24 | 10:31 | 7 | 2 | ALIVE | A | 192 |
| M78 | 10:16 | 10:39 | 23 | 2 | ALIVE | A | 184 |
| M79 | 10:18 | 10:27 | 9 | 2 | ALIVE | A | 135 |
| M80 | 10:24 | 10:30 | 6 | 2 | ALIVE | A | 190 |
| M81 | 10:17 | 10:24 | 7 | 2 | ALIVE | A | 155 |
| M82 | 10:41 | 10:52 | 11 | 2 | ALIVE | A | 187 |
| M83 | 10:35 | 10:47 | 12 | 2 | ALIVE | A | 143 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| M84 | 10:41 | 10:44 | 3 | 2 | ALIVE | A | 188 | |
| M85 | 10:33 | 10:36 | 3 | 2 | ALIVE | A | 179 | |
| M86 | 10:34 | 10:42 | 8 | 2 | ALIVE | A | 136 | |
| M87 | 10:48 | 10:57 | 9 | 2 | ALIVE | A | 184 | |
| M88 | 10:53 | 10:59 | 6 | 2 | ALIVE | A | 183 | |
| M89 | 10:57 | 11:08 | 11 | 2 | ALIVE | H | 191 | |
| M90 | 10:51 | 11:09 | 18 | 2 | ALIVE | A | 189 | |
| M91 | 10:46 | 10:50 | 4 | 2 | ALIVE | H | 180 | |
| M92 | 10:08 | 11:15 | 67 | 2 | ALIVE | A | 190 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M93 | 11:00 | 11:05 | 5 | 2 | ALIVE | A | 190 |
| M94 | 11:14 | 11:28 | 14 | 2 | ALIVE | A | 155 |
| M95 | 11:10 | 11:14 | 4 | 2 | ALIVE | A | 135 |
| M96 | 11:01 | 11:12 | 11 | 2 | ALIVE | A | 174 |
| M97 | 11:59 | 12:14 | 15 | 2 | ALIVE | A | 175 |
| M98 | 11:29 | 11:55 | 26 | 2 | ALIVE | A | 178 |
| MA0 | 11:58 | 12:04 | 6 | 2 | ALIVE | TA | 177 |
| MA1 | 11:30 | 11:35 | 5 | 2 | ALIVE | A | 207 |
| MA2 | 11:36 | 11:38 | 2 | 2 | ALIVE | A | 134 |
| MA3 | 11:38 | 11:54 | 16 | 2 | ALIVE | A | 175 |
| MA4 | 11:31 | 11:35 | 4 | 2 | ALIVE | A | 184 |
| MA5 | 11:52 | 11:58 | 6 | 2 | ALIVE | A | 199 |
| MA6 | 11:52 | 11:56 | 4 | 2 | ALIVE | TA | 145 |
| MA7 | 11:37 | 12:01 | 24 | 2 | ALIVE | A | 185 |
| MA8 | 12:18 | 12:23 | 5 | 2 | ALIVE | A | 180 |
| MA9 | 12:13 | 12:21 | 8 | 2 | ALIVE | A | 165 |
| MB0 | 12:10 | 12:12 | 2 | 2 | ALIVE | A | 135 |
| MB1 | 12:21 | 12:30 | 9 | 2 | ALIVE | A | 197 |
| MB2 | 12:02 | 12:08 | 6 | 2 | ALIVE | A | 152 |
| MB3 | 12:19 | 12:24 | 5 | 2 | ALIVE | A | 178 |
| MB4 | 12:15 | 12:17 | 2 | 2 | ALIVE | A | 191 |
| MB5 | 12:08 | 12:10 | 2 | 2 | ALIVE | A | 137 |
| MB6 | 12:11 | 12:17 | 6 | 2 | ALIVE | A | 134 |
| MB7 | 12:05 | 12:10 | 5 | 2 | ALIVE | A | 180 |
| MB8 | 12:43 | 12:58 | 15 | 2 | ALIVE | A | 153 |
| MB9 | 12:42 | 12:54 | 12 | 2 | ALIVE | A | 182 |
| MC0 | 12:48 | 13:09 | 21 | 2 | ALIVE | A | 130 |
| MC1 | 12:58 | 13:01 | 3 | 2 | ALIVE | A | 194 |
| MC2 | 12:41 | 12:58 | 17 | 2 | ALIVE | A | 170 |
| MC3 | 13:01 | 13:05 | 4 | 2 | ALIVE | A | 182 |
| MC4 | 13:01 | 13:11 | 10 | 2 | ALIVE | A | 186 |
| MC5 | 13:07 | 13:24 | 17 | 2 | ALIVE | A | 177 |
| MC6 | 13:04 | 13:06 | 2 | 2 | ALIVE | A | 190 |
| MC7 | 13:10 | 13:13 | 3 | 2 | ALIVE | A | 189 |
| MC8 | 13:24 | 13:30 | 6 | 2 | ALIVE | H | 178 |
| MC9 | 13:16 | 13:37 | 21 | 2 | ALIVE | A | 136 |
| MD0 | 13:13 | 13:34 | 21 | 2 | ALIVE | A | 170 |
| MD1 | 13:13 | 13:22 | 9 | 2 | ALIVE | A | 170 |
| MD2 | 13:28 | 13:34 | 6 | 2 | ALIVE | A | 182 |
| MD3 | 13:36 | 13:54 | 18 | 2 | ALIVE | A | 195 |
| MD4 | 13:50 | 13:58 | 8 | 2 | ALIVE | A | 187 |
| MD5 | 13:52 | 13:58 | 6 | 2 | ALIVE | A | 205 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MD6 | 13:31 | 13:49 | 18 | 2 | ALIVE | A | 138 | |
| MD7 | 13:35 | 14:07 | 32 | 2 | ALIVE | A | 194 | |
| MD8 | 14:14 | 14:19 | 5 | 2 | ALIVE | A | 170 | |
| MD9 | 14:20 | 14:38 | 18 | 2 | ALIVE | A | 182 | |
| ME0 | 14:33 | 14:36 | 3 | 2 | ALIVE | A | 192 | |
| ME1 | 14:37 | 14:38 | 1 | 2 | ALIVE | A | 171 | |
| ME2 | 14:15 | 14:33 | 18 | 2 | ALIVE | A | 138 | |
| ME3 | 14:30 | 14:33 | 3 | 2 | ALIVE | A | 147 | |
| ME4 | 14:20 | 14:27 | 7 | 2 | ALIVE | A | 157 | |
| ME5 | 14:15 | 14:24 | 9 | 2 | ALIVE | A | 179 | |
| ME6 | 14:34 | 14:42 | 8 | 2 | ALIVE | A | 178 | |
| ME7 | 14:28 | 14:32 | 4 | 2 | ALIVE | TA | 185 | |
| ME8 | 14:52 | 15:02 | 10 | 2 | ALIVE | A | 196 | |
| ME9 | 14:43 | 14:46 | 3 | 2 | ALIVE | A | 188 | |
| MF0 | 14:47 | 14:49 | 2 | 2 | ALIVE | A | 195 | |
| MF1 | 14:48 | 14:51 | 3 | 2 | ALIVE | A | 137 | |
| MF2 | 14:50 | 15:10 | 20 | 2 | ALIVE | A | 189 | |
| MF3 | 14:41 | 14:48 | 7 | 2 | ALIVE | A | 188 | |
| MF4 | 14:51 | 15:12 | 21 | 2 | ALIVE | A | 190 | |
| MF5 | 14:44 | 14:50 | 6 | 2 | ALIVE | A | 148 | |
| MF6 | 14:40 | 14:42 | 2 | 2 | ALIVE | A | 136 | |
| MF7 | 14:39 | 14:41 | 2 | 2 | ALIVE | A | 189 | |
| 11 December 1999 - Testlot 26 : PL=1, Control - Water temp=46.0 C | | | | | | | | |
| MF8 | 7:58 | 8:02 | 4 | 2 | ALIVE | A | 191 | |
| MF9 | 7:57 | 8:02 | 5 | 2 | ALIVE | A | 190 | |
| MH0 | 7:54 | 7:58 | 4 | 2 | ALIVE | A | 178 | |
| MH1 | 7:46 | 7:49 | 3 | 2 | ALIVE | A | 202 | |
| MH2 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 130 | |
| MH3 | 7:59 | 8:02 | 3 | 2 | ALIVE | A | 168 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MH4 | 7:51 | 7:56 | 5 | 1 | ALIVE | A | 178 |
| MH5 | 7:42 | 7:57 | 15 | 2 | ALIVE | A | 183 |
| MH6 | 7:40 | 7:53 | 13 | 2 | ALIVE | A | 162 |
| MH7 | 7:39 | 7:45 | 6 | 2 | ALIVE | A | 175 |
| MH8 | 8:14 | 8:45 | 31 | 1 | ALIVE | A | 201 |
| MH9 | 8:06 | 8:14 | 8 | 2 | ALIVE | A | 172 |
| MJ0 | 8:04 | 8:23 | 19 | 2 | ALIVE | A | 130 |
| MJ1 | 8:07 | 8:18 | 11 | 2 | ALIVE | A | 144 |
| MJ2 | 8:03 | 8:04 | 1 | 2 | ALIVE | A | 141 |
| MJ3 | 8:52 | 9:01 | 9 | 2 | ALIVE | A | 201 |
| MJ4 | 8:46 | 8:57 | 11 | 2 | ALIVE | A | 153 |
| MJ5 | 8:49 | 8:53 | 4 | 2 | ALIVE | A | 191 |
| MJ6 | 8:54 | 8:58 | 4 | 2 | ALIVE | A | 184 |
| MJ7 | 8:42 | 8:51 | 9 | 2 | ALIVE | A | 137 |
| MJ8 | 8:59 | 9:02 | 3 | 2 | ALIVE | A | 128 |
| MJ9 | 9:06 | 9:12 | 6 | 2 | ALIVE | A | 188 |
| MK0 | 9:02 | 9:23 | 21 | 2 | ALIVE | A | 187 |
| MK1 | 8:59 | 9:05 | 6 | 2 | ALIVE | A | 176 |
| MK2 | 9:03 | 9:09 | 6 | 2 | ALIVE | A | 183 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MK3 | 9:13 | 9:28 | 15 | 2 | ALIVE | A | 142 | |
| MK4 | 9:19 | 9:24 | 5 | 2 | ALIVE | A | 170 | |
| MK5 | 9:25 | 9:44 | 19 | 2 | ALIVE | A | 188 | |
| MK6 | 9:09 | 9:18 | 9 | 2 | ALIVE | A | 188 | |
| MK7 | 9:24 | 9:31 | 7 | 2 | ALIVE | A | 197 | |
| MK8 | 9:36 | 9:43 | 7 | 2 | ALIVE | A | 167 | |
| MK9 | 9:29 | 9:47 | 18 | 2 | ALIVE | A | 135 | |
| ML0 | 9:45 | 9:55 | 10 | 2 | ALIVE | A | 170 | |
| ML1 | 9:44 | 9:47 | 3 | 2 | ALIVE | A | 167 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ML2 | 9:32 | 9:35 | 3 | 2 | ALIVE | A | 169 |
| ML3 | 10:10 | 10:17 | 7 | 2 | ALIVE | A | 167 |
| ML4 | 10:02 | 10:08 | 6 | 2 | ALIVE | A | 172 |
| ML5 | 10:01 | 10:07 | 6 | 2 | ALIVE | A | 142 |
| ML6 | 10:00 | 10:14 | 14 | 2 | ALIVE | A | 183 |
| ML7 | 10:09 | 10:11 | 2 | 2 | ALIVE | A | 147 |
| ML8 | 10:33 | 10:45 | 12 | 2 | ALIVE | A | 155 |
| MM0 | 10:45 | 10:52 | 7 | 2 | ALIVE | A | 192 |
| MM1 | 10:50 | 10:54 | 4 | 2 | ALIVE | A | 188 |
| MM2 | 10:32 | 10:44 | 12 | 2 | ALIVE | A | 185 |
| MM3 | 10:55 | 10:58 | 3 | 2 | ALIVE | A | 136 |
| MM4 | 10:54 | 10:59 | 5 | 2 | ALIVE | A | 144 |
| MM5 | 11:10 | 11:16 | 6 | 1 | ALIVE | WHB | 141 |
| MM6 | 11:02 | 11:09 | 7 | 2 | ALIVE | A | 170 |
| MM7 | 11:00 | 11:10 | 10 | 2 | ALIVE | A | 181 |
| MM8 | 11:18 | 11:51 | 33 | 2 | ALIVE | A | 193 |
| MM9 | 11:24 | 11:31 | 7 | 2 | ALIVE | A | 186 |
| MN0 | 11:12 | 11:18 | 6 | 2 | ALIVE | A | 201 |
| MN1 | 11:27 | 11:33 | 6 | 2 | ALIVE | A | 186 |
| MN2 | 11:17 | 11:26 | 9 | 2 | ALIVE | A | 202 |
| MN3 | 11:53 | 11:56 | 3 | 2 | ALIVE | A | 138 |
| MN4 | 11:49 | 11:55 | 6 | 1 | ALIVE | A | 140 |
| MN5 | 11:56 | 12:05 | 9 | 2 | ALIVE | A | 141 |
| MN6 | 11:57 | 12:00 | 3 | 2 | ALIVE | A | 182 |
| MN7 | 11:47 | 11:55 | 8 | 2 | ALIVE | A | 137 |
| MN8 | 12:03 | 12:05 | 2 | 2 | ALIVE | A | 137 |
| MN9 | 12:01 | 12:04 | 3 | 2 | ALIVE | A | 143 |
| MP0 | 11:59 | 12:02 | 3 | 2 | ALIVE | A | 144 |
| MP1 | 12:04 | 12:10 | 6 | 2 | ALIVE | A | 154 |
| MP2 | 12:05 | . | . | 0 | UNKNOWN | X | 188 |
| MP3 | 12:33 | 12:40 | 7 | 2 | ALIVE | A | 197 |
| MP4 | 12:08 | 12:19 | 11 | 2 | ALIVE | A | 147 |
| MP5 | 12:27 | 12:31 | 4 | 2 | ALIVE | A | 172 |
| MP6 | 12:10 | . | . | 0 | UNKNOWN | X | 195 |
| MP7 | 12:20 | 12:24 | 4 | 1 | ALIVE | A | 186 |
| MP8 | 12:40 | 12:47 | 7 | 2 | ALIVE | A | 141 |
| MP9 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 182 |
| MR0 | 12:44 | 12:56 | 12 | 2 | ALIVE | A | 175 |
| MR1 | 12:50 | 12:56 | 6 | 2 | ALIVE | A | 198 |
| MR2 | 12:51 | . | . | 0 | UNKNOWN | X | 188 |
| MR3 | 12:58 | . | . | 0 | DEAD | Z | 180 |
| MR4 | 13:17 | 13:25 | 8 | 2 | ALIVE | A | 190 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MR5 | 13:00 | 13:08 | 8 | 2 | ALIVE | A | 205 | |
| MR6 | 13:16 | 13:25 | 9 | 2 | ALIVE | A | 192 | |
| MR7 | 13:26 | 13:34 | 8 | 2 | ALIVE | A | 181 | |
| MR8 | 13:50 | 14:00 | 10 | 2 | ALIVE | A | 170 | |
| MR9 | 13:41 | 13:49 | 8 | 2 | ALIVE | A | 140 | |
| MS1 | 13:42 | 13:54 | 12 | 2 | ALIVE | A | 192 | |
| MS2 | 13:43 | 13:59 | 16 | 2 | ALIVE | A | 193 | |
| MS3 | 14:23 | 14:26 | 3 | 2 | ALIVE | A | 172 | |
| MS4 | 14:17 | 14:21 | 4 | 2 | ALIVE | A | 192 | |
| MS5 | 14:25 | 14:32 | 7 | 2 | ALIVE | A | 183 | |
| MS6 | 14:26 | 14:36 | 10 | 2 | ALIVE | A | 157 | |
| MS7 | 14:24 | 14:36 | 12 | 2 | ALIVE | A | 183 | |
| MS8 | 14:38 | 15:03 | 25 | 2 | ALIVE | A | 186 | |
| MS9 | 14:39 | 14:45 | 6 | 2 | ALIVE | A | 185 | |
| MT0 | 14:34 | 14:37 | 3 | 2 | ALIVE | A | 142 | |
| MT1 | 14:46 | 14:57 | 11 | 2 | ALIVE | A | 183 | |
| MT2 | 14:37 | 14:52 | 15 | 2 | ALIVE | A | 142 | |
| MT3 | 15:11 | 15:14 | 3 | 2 | ALIVE | A | 161 | |
| MT4 | 15:13 | 15:20 | 7 | 2 | ALIVE | A | 175 | |
| MT5 | 15:14 | 15:21 | 7 | 2 | ALIVE | A | 187 | |
| MT6 | 14:54 | 14:59 | 5 | 2 | ALIVE | A | 141 | |
| MT7 | 15:06 | 15:09 | 3 | 2 | ALIVE | A | 130 | |
| MT8 | 15:17 | 15:22 | 5 | 2 | ALIVE | A | 192 | |
| MT9 | 10:47 | 10:49 | 2 | 2 | ALIVE | A | 195 | |
| MU0 | 15:23 | 15:27 | 4 | 2 | ALIVE | A | 203 | |
| MU1 | 15:24 | 15:32 | 8 | 2 | ALIVE | A | 187 | |
| MU2 | 15:28 | 15:36 | 8 | 2 | ALIVE | A | 200 | |
| MU3 | 15:26 | 15:29 | 3 | 2 | ALIVE | A | 176 | |
| MU4 | 15:22 | 15:24 | 2 | 1 | ALIVE | B | 165 | |
| MU5 | 15:43 | 15:49 | 6 | 2 | ALIVE | A | 188 | |
| MU6 | 15:42 | 15:57 | 15 | 2 | ALIVE | A | 170 | |
| MU7 | 15:52 | 15:54 | 2 | 2 | ALIVE | A | 167 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MU8 | 15:55 | 15:57 | 2 | 2 | ALIVE | A | 200 |
| MU9 | 15:50 | 15:52 | 2 | 2 | ALIVE | A | 132 |
| MV0 | 15:47 | 15:53 | 6 | 2 | ALIVE | A | 133 |
| MV1 | 15:58 | 16:02 | 4 | 2 | ALIVE | A | 190 |
| MV2 | 15:54 | 16:05 | 11 | 2 | ALIVE | A | 180 |
| MV3 | 15:59 | 16:01 | 2 | 2 | ALIVE | A | 206 |
| MV4 | 16:06 | 16:14 | 8 | 2 | ALIVE | A | 191 |
| MV5 | 16:02 | 16:04 | 2 | 2 | ALIVE | A | 146 |
| MV6 | 16:03 | 16:13 | 10 | 2 | ALIVE | A | 138 |
| MV7 | 16:08 | 16:13 | 5 | 2 | ALIVE | A | 188 |
| MV8 | 16:05 | 16:07 | 2 | 2 | ALIVE | A | 190 |
| MZ9 | 15:41 | 15:46 | 5 | 2 | ALIVE | A | 186 |

12 December 1999 - Testlot 27 : PL=4, Unit 6, Mid - Water temp=47.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MM0 | 10:53 | 10:56 | 3 | 2 | ALIVE | A | 181 |
| MM1 | 10:56 | 11:10 | 14 | 2 | ALIVE | A | 131 |
| MM2 | 10:55 | 11:03 | 8 | 2 | ALIVE | A | 127 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MM3 | 10:59 | 11:01 | 2 | 2 | ALIVE | A | 142 | |
| MM4 | 10:57 | 11:00 | 3 | 1 | DEAD | F | 201 | |
| MM5 | 11:14 | 11:19 | 5 | 2 | ALIVE | A | 140 | |
| MM6 | 11:11 | 11:16 | 5 | 2 | ALIVE | A | 186 | |
| MM7 | 11:04 | 11:09 | 5 | 2 | ALIVE | A | 181 | |
| MM8 | 11:10 | 11:16 | 6 | 2 | ALIVE | A | 130 | |
| MM9 | 11:02 | 11:14 | 12 | 2 | ALIVE | A | 160 | |
| MN0 | 11:22 | 11:25 | 3 | 2 | ALIVE | A | 162 | |
| MN1 | 11:18 | 11:21 | 3 | 2 | ALIVE | A | 142 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MN2 | 11:21 | 11:52 | 31 | 2 | ALIVE | A | 136 |
| MN3 | 11:20 | 11:43 | 23 | 2 | ALIVE | A | 185 |
| MN4 | 11:17 | 11:19 | 2 | 2 | ALIVE | A | 188 |
| MN5 | 11:33 | 12:02 | 29 | 2 | ALIVE | A | 150 |
| MN6 | 11:54 | 11:57 | 3 | 2 | ALIVE | A | 201 |
| MN7 | 12:19 | 15:48 | 209 | 2 | ALIVE | A | 197 |
| MN8 | 12:03 | 12:07 | 4 | 2 | ALIVE | A | 139 |
| MN9 | 12:05 | 12:14 | 9 | 2 | ALIVE | A | 186 |
| MP0 | 12:08 | 12:17 | 9 | 2 | ALIVE | A | 183 |
| MP1 | 12:16 | 12:17 | 1 | 2 | ALIVE | A | 195 |
| MP2 | 12:38 | 12:40 | 2 | 2 | ALIVE | A | 134 |
| MP3 | 12:36 | 12:37 | 1 | 2 | ALIVE | A | 140 |
| MP4 | 12:42 | 12:44 | 2 | 2 | ALIVE | A | 168 |
| MP5 | 12:54 | 12:55 | 1 | 2 | ALIVE | A | 189 |
| MP6 | 12:45 | . | . | 0 | DEAD | P | 140 |
| MP7 | 12:37 | 12:42 | 5 | 2 | ALIVE | A | 139 |
| MP8 | 12:56 | 12:58 | 2 | 2 | ALIVE | A | 170 |
| MP9 | 12:43 | 12:52 | 9 | 2 | ALIVE | A | 191 |
| MR0 | 12:57 | 12:59 | 2 | 2 | ALIVE | A | 205 |
| MR1 | 12:41 | 12:42 | 1 | 2 | ALIVE | A | 192 |
| MR2 | 13:00 | 13:04 | 4 | 2 | ALIVE | A | 171 |
| MR3 | 13:04 | . | . | 0 | DEAD | Z | 140 |
| MR4 | 13:00 | 13:03 | 3 | 2 | ALIVE | A | 180 |
| MR5 | 13:11 | 13:13 | 2 | 2 | ALIVE | A | 201 |
| MR6 | 13:05 | 13:08 | 3 | 2 | ALIVE | A | 205 |
| MR7 | 12:01 | 12:07 | 6 | 2 | ALIVE | A | 137 |
| MR8 | 13:06 | 13:08 | 2 | 2 | ALIVE | A | 142 |
| MR9 | 13:08 | 13:24 | 16 | 2 | ALIVE | A | 192 |
| MS0 | 13:09 | 13:12 | 3 | 2 | ALIVE | A | 189 |
| MS1 | 13:07 | 13:10 | 3 | 2 | ALIVE | A | 190 |
| MS2 | 13:02 | 13:04 | 2 | 2 | ALIVE | A | 140 |
| MS3 | 13:41 | . | . | 0 | DEAD | ZP | 184 |
| MS4 | 13:33 | 13:34 | 1 | 2 | ALIVE | A | 151 |
| MS5 | 13:28 | 13:31 | 3 | 2 | ALIVE | A | 200 |
| MS6 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 163 |
| MS7 | 13:34 | 13:40 | 6 | 2 | ALIVE | H | 183 |
| MS8 | 13:35 | 13:42 | 7 | 2 | ALIVE | A | 132 |
| MS9 | 13:32 | 13:34 | 2 | 2 | ALIVE | A | 139 |
| MT0 | 11:27 | 11:41 | 14 | 2 | ALIVE | A | 185 |
| MT1 | 11:45 | 12:18 | 33 | 2 | ALIVE | A | 181 |
| MT2 | 11:58 | 12:00 | 2 | 2 | ALIVE | A | 176 |
| MT3 | 13:28 | 13:30 | 2 | 2 | ALIVE | A | 190 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MT4 | 13:42 | 13:44 | 2 | 2 | ALIVE | A | 196 | |
| MT5 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 153 | |
| MT6 | 14:16 | 14:19 | 3 | 2 | ALIVE | A | 175 | |
| MT7 | 14:23 | 14:26 | 3 | 2 | ALIVE | A | 186 | |
| MT8 | 14:15 | 14:22 | 7 | 1 | ALIVE | HB | 195 | |
| MT9 | 14:20 | 14:31 | 11 | 2 | ALIVE | A | 170 | |
| MU0 | 14:19 | 14:22 | 3 | 1 | ALIVE | B | 200 | |
| MU1 | 14:31 | 14:37 | 6 | 2 | ALIVE | A | 187 | |
| MU2 | 14:25 | 14:39 | 14 | 2 | ALIVE | A | 180 | |
| MU3 | 14:27 | 14:34 | 7 | 2 | ALIVE | A | 180 | |
| MU4 | 14:38 | 14:43 | 5 | 2 | ALIVE | A | 187 | |
| MU5 | 14:35 | 14:40 | 5 | 2 | ALIVE | A | 185 | |
| MU6 | 14:54 | 14:58 | 4 | 2 | ALIVE | A | 195 | |
| MU7 | 14:47 | 15:08 | 21 | 2 | ALIVE | A | 195 | |
| MU8 | 14:41 | . | . | 0 | TAG & PIN | | 150 | |
| MU9 | 14:44 | 14:47 | 3 | 2 | ALIVE | A | 188 | |
| MV0 | 14:42 | 14:59 | 17 | 2 | ALIVE | A | 143 | |
| MV1 | 15:00 | 15:05 | 5 | 2 | ALIVE | A | 150 | |
| MV2 | 15:05 | 15:12 | 7 | 2 | ALIVE | A | 179 | |
| MV4 | 14:59 | 15:04 | 5 | 2 | ALIVE | A | 130 | |
| MV5 | 15:06 | 15:12 | 6 | 1 | ALIVE | A | 194 | |
| MV6 | 15:14 | 15:19 | 5 | 1 | ALIVE | A | 185 | |
| MV7 | 15:12 | 15:14 | 2 | 1 | ALIVE | A | 182 | |
| MV8 | 15:20 | 15:37 | 17 | 1 | ALIVE | A | 173 | |
| MV9 | 8:07 | 8:16 | 9 | 2 | ALIVE | A | 188 | |
| MW0 | 8:02 | 8:19 | 17 | 2 | ALIVE | A | 138 | |
| MW1 | 15:16 | 15:55 | 39 | 1 | ALIVE | A | 178 | |
| MW2 | 7:56 | 8:01 | 5 | 2 | ALIVE | A | 160 | |
| MW3 | 8:17 | 8:22 | 5 | 2 | ALIVE | A | 191 | |
| MW4 | 8:20 | . | . | 0 | DEAD | P | 185 | |
| MW5 | 8:23 | 8:34 | 11 | 2 | ALIVE | A | 190 | |
| MW6 | 8:34 | 8:41 | 7 | 2 | ALIVE | A | 182 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MW7 | 8:29 | 8:42 | 13 | 2 | ALIVE | A | 147 |
| MW8 | 8:31 | 8:35 | 4 | 2 | ALIVE | A | 183 |
| MW9 | 8:44 | 8:48 | 4 | 2 | ALIVE | A | 170 |
| MX0 | 8:42 | 8:46 | 4 | 2 | ALIVE | A | 134 |
| MX1 | 8:36 | 8:41 | 5 | 2 | ALIVE | A | 141 |
| MX2 | 8:38 | 8:45 | 7 | 2 | ALIVE | A | 196 |
| MX3 | 8:46 | 9:01 | 15 | 2 | ALIVE | A | 215 |
| MX4 | 9:00 | 9:02 | 2 | 2 | ALIVE | A | 187 |
| MX5 | 9:01 | 9:12 | 11 | 2 | ALIVE | A | 183 |
| MX6 | 8:49 | 9:00 | 11 | 2 | ALIVE | A | 145 |
| MX7 | 8:48 | 8:59 | 11 | 2 | ALIVE | A | 188 |
| MX8 | 9:04 | 9:09 | 5 | 2 | ALIVE | A | 210 |
| MX9 | 9:23 | 9:34 | 11 | 2 | ALIVE | A | 149 |
| MY0 | 9:17 | 9:27 | 10 | 2 | ALIVE | A | 153 |
| MY1 | 9:22 | 9:41 | 19 | 2 | ALIVE | A | 134 |
| MY2 | 9:18 | 9:21 | 3 | 2 | ALIVE | A | 170 |
| MY3 | 9:17 | 9:20 | 3 | 2 | ALIVE | A | 150 |
| MY4 | 9:31 | 9:41 | 10 | 2 | ALIVE | A | 189 |
| MY5 | 9:28 | 9:39 | 11 | 2 | ALIVE | A | 183 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MY6 | 9:40 | . | . | . | UNKNOWN | | 192 | |
| MY7 | 9:42 | 9:46 | 4 | 2 | ALIVE | A | 185 | |
| MY8 | 9:43 | 9:46 | 3 | 2 | ALIVE | A | 199 | |
| MY9 | 9:47 | 9:49 | 2 | 2 | ALIVE | A | 148 | |
| MZ0 | 9:54 | 10:06 | 12 | 2 | ALIVE | A | 139 | |
| MZ1 | 9:50 | 9:52 | 2 | 2 | ALIVE | HB | 185 | |
| MZ2 | 9:53 | 10:09 | 16 | 2 | ALIVE | A | 213 | |
| MZ3 | 9:48 | 9:54 | 6 | 2 | ALIVE | A | 140 | |
| MZ4 | 10:07 | 10:14 | 7 | 2 | ALIVE | A | 143 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MZ5 | 10:09 | 10:25 | 16 | 2 | ALIVE | A | 142 |
| MZ6 | 10:18 | 10:50 | 32 | 2 | ALIVE | A | 185 |
| MZ7 | 10:10 | 10:20 | 10 | 2 | ALIVE | A | 168 |
| MZ8 | 10:15 | 10:23 | 8 | 2 | ALIVE | A | 196 |
| MZ9 | 15:09 | 15:11 | 2 | 2 | ALIVE | A | 171 |
| ZV9 | 15:15 | . | . | 0 | TAG & PIN | | 161 |
| ZW0 | 15:23 | 15:26 | 3 | 1 | ALIVE | A | 174 |

13 December 1999 - Testlot 28 : PL=1, Unit 5, Mid - Water temp=47.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| KA0 | 10:16 | 10:18 | 2 | 2 | ALIVE | A | 176 |
| KA1 | 10:18 | 10:22 | 4 | 2 | ALIVE | A | 192 |
| KA2 | 10:08 | 10:15 | 7 | 2 | ALIVE | A | 183 |
| KA3 | 10:23 | 10:36 | 13 | 2 | ALIVE | A | 130 |
| KA4 | 10:24 | 10:31 | 7 | 2 | ALIVE | A | 181 |
| KA5 | 10:32 | 10:36 | 4 | 2 | ALIVE | A | 184 |
| KA6 | 10:36 | 10:39 | 3 | 2 | ALIVE | A | 175 |
| KA8 | 10:41 | 10:49 | 8 | 2 | ALIVE | A | 147 |
| KA9 | 10:47 | 10:52 | 5 | 2 | ALIVE | A | 144 |
| KB0 | 10:43 | 10:46 | 3 | 2 | ALIVE | A | 132 |
| KB1 | 10:39 | 10:42 | 3 | 2 | ALIVE | A | 138 |
| KB2 | 10:51 | 11:00 | 9 | 2 | ALIVE | A | 186 |
| KB3 | 11:03 | 11:13 | 10 | 2 | ALIVE | A | 181 |
| KB4 | 11:04 | 11:06 | 2 | 2 | ALIVE | A | 190 |
| KB5 | 11:02 | 11:04 | 2 | 2 | ALIVE | A | 146 |
| KB6 | 10:55 | 11:02 | 7 | 2 | ALIVE | A | 135 |
| KB7 | 10:55 | 11:01 | 6 | 1 | DEAD | F | 155 |
| KB8 | 11:17 | 11:36 | 19 | 2 | ALIVE | A | 165 |
| KB9 | 11:18 | 11:32 | 14 | 2 | ALIVE | A | 197 |
| KC0 | 11:34 | 11:38 | 4 | 2 | ALIVE | A | 201 |
| KC1 | 11:19 | 11:30 | 11 | 2 | ALIVE | A | 196 |
| KC2 | 11:33 | 11:42 | 9 | 2 | ALIVE | A | 193 |
| KC3 | 11:44 | 11:48 | 4 | 2 | ALIVE | A | 167 |
| KC4 | 11:39 | 11:48 | 9 | 2 | ALIVE | A | 138 |
| KC5 | 11:37 | 11:43 | 6 | 2 | ALIVE | A | 138 |
| KC6 | 11:43 | 11:56 | 13 | 2 | ALIVE | A | 158 |
| KC7 | 11:49 | 11:55 | 6 | 2 | ALIVE | A | 160 |
| KC8 | 12:01 | 12:20 | 19 | 2 | ALIVE | A | 183 |
| KC9 | 11:57 | 12:05 | 8 | 2 | ALIVE | A | 182 |
| KD0 | 11:55 | 12:00 | 5 | 2 | ALIVE | A | 156 |
| KD1 | 12:07 | . | . | 0 | DEAD | ZL | 148 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| KD2 | 11:51 | . | . | 0 | TAG & PIN | | 147 | |
| KD3 | 12:22 | 12:27 | 5 | 2 | ALIVE | A | 140 | |
| KD4 | 12:41 | 12:46 | 5 | 2 | ALIVE | WH | 187 | |
| KD6 | 12:36 | 12:40 | 4 | 2 | ALIVE | A | 198 | |
| KD7 | 12:31 | 12:40 | 9 | 2 | ALIVE | A | 146 | |
| KD8 | 12:48 | 12:51 | 3 | 2 | ALIVE | A | 177 | |
| KD9 | 12:43 | 12:46 | 3 | 2 | ALIVE | A | 192 | |
| KE0 | 12:49 | 12:56 | 7 | 2 | ALIVE | A | 182 | |
| KE1 | 12:42 | 12:49 | 7 | 2 | ALIVE | A | 187 | |
| KE2 | 12:50 | . | . | 0 | UNKNOWN | X | 191 | |
| KE4 | 13:37 | 13:40 | 3 | 2 | ALIVE | A | 200 | |
| KE5 | 13:16 | 13:18 | 2 | 2 | ALIVE | A | 165 | |
| KE6 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 132 | |
| KE7 | 13:36 | 13:38 | 2 | 2 | ALIVE | A | 149 | |
| KE8 | 13:15 | 13:18 | 3 | 2 | ALIVE | A | 140 | |
| KE9 | 13:36 | 13:49 | 13 | 2 | ALIVE | A | 186 | |
| KF0 | 13:13 | 13:15 | 2 | 2 | ALIVE | A | 127 | |
| KF1 | 13:19 | 13:23 | 4 | 2 | ALIVE | A | 140 | |
| KF2 | 13:08 | 13:14 | 6 | 2 | ALIVE | A | 132 | |
| KF3 | 13:28 | 13:30 | 2 | 2 | ALIVE | A | 206 | |
| KF4 | 13:07 | 13:12 | 5 | 2 | ALIVE | A | 152 | |
| KF5 | 13:24 | 13:27 | 3 | 2 | ALIVE | A | 188 | |
| KF6 | 13:23 | 13:31 | 8 | 2 | ALIVE | A | 174 | |
| KF7 | 13:19 | 13:27 | 8 | 2 | ALIVE | A | 150 | |
| KF8 | 13:32 | 13:35 | 3 | 2 | ALIVE | A | 147 | |
| KF9 | 13:59 | 14:25 | 26 | 2 | ALIVE | H | 202 | |
| KH0 | 13:59 | 14:06 | 7 | 2 | ALIVE | A | 168 | |
| KH1 | 14:07 | 14:15 | 8 | 2 | ALIVE | A | 197 | |
| KH2 | 14:02 | 14:08 | 6 | 2 | ALIVE | A | 202 | |
| KH3 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 157 | |
| KH4 | 14:17 | 14:30 | 13 | 2 | ALIVE | A | 180 | |
| KH5 | 14:19 | 14:22 | 3 | 2 | DEAD | F | 188 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| KH6 | 14:16 | 14:19 | 3 | 2 | ALIVE | A | 188 |
| KH7 | 14:14 | 14:17 | 3 | 2 | ALIVE | A | 142 |
| KH8 | 14:10 | 14:13 | 3 | 2 | ALIVE | A | 160 |
| KH9 | 14:27 | . | . | 0 | DEAD | Z | 137 |
| KJ0 | 14:31 | 14:37 | 6 | 2 | ALIVE | A | 175 |
| KJ1 | 14:36 | 14:44 | 8 | 2 | ALIVE | A | 199 |
| KJ2 | 14:26 | 14:30 | 4 | 2 | ALIVE | A | 176 |
| KJ3 | 14:30 | 14:35 | 5 | 2 | ALIVE | A | 142 |
| KJ4 | 14:54 | 14:59 | 5 | 2 | ALIVE | A | 128 |
| KJ5 | 14:57 | 14:59 | 2 | 2 | ALIVE | A | 138 |
| KJ6 | 14:39 | 14:53 | 14 | 2 | ALIVE | A | 135 |
| KJ7 | 14:58 | 15:03 | 5 | 2 | ALIVE | A | 187 |
| KJ9 | 15:08 | 15:11 | 3 | 2 | ALIVE | A | 192 |
| KK1 | 15:03 | 15:08 | 5 | 2 | ALIVE | A | 186 |
| KK2 | 15:09 | 15:12 | 3 | 2 | ALIVE | A | 186 |
| KK3 | 15:05 | 15:07 | 2 | 2 | ALIVE | A | 149 |
| KK4 | 15:06 | 15:11 | 5 | 2 | ALIVE | A | 140 |
| KK5 | 15:12 | 15:31 | 19 | 2 | ALIVE | A | 173 |
| MW2 | 7:47 | 7:51 | 4 | 2 | ALIVE | A | 202 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| MW3 | 7:51 | 8:02 | 11 | 2 | ALIVE | A | 195 | |
| MW4 | 7:54 | 7:58 | 4 | 2 | ALIVE | A | 195 | |
| MW5 | 7:33 | 7:47 | 14 | 2 | ALIVE | A | 135 | |
| MW6 | 7:32 | 7:36 | 4 | 2 | ALIVE | A | 140 | |
| MW7 | 7:37 | 7:43 | 6 | 2 | ALIVE | A | 161 | |
| MW8 | 7:52 | 7:56 | 4 | 2 | ALIVE | A | 170 | |
| MW9 | 7:34 | 7:53 | 19 | 2 | ALIVE | A | 141 | |
| MX0 | 7:43 | 7:46 | 3 | 2 | ALIVE | A | 158 | |
| MX1 | 7:48 | 7:50 | 2 | 2 | ALIVE | A | 215 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MX2 | 8:00 | 8:04 | 4 | 2 | ALIVE | A | 135 |
| MX3 | 7:59 | 8:01 | 2 | 2 | ALIVE | A | 130 |
| MX4 | 8:02 | 8:18 | 16 | 2 | ALIVE | A | 128 |
| MX5 | 8:04 | 8:10 | 6 | 2 | ALIVE | A | 192 |
| MX6 | 7:57 | 7:59 | 2 | 2 | ALIVE | A | 152 |
| MX7 | 8:24 | 8:30 | 6 | 2 | ALIVE | A | 181 |
| MX8 | 8:22 | 8:26 | 4 | 2 | ALIVE | A | 205 |
| MX9 | 8:31 | 8:37 | 6 | 2 | ALIVE | A | 183 |
| MY0 | 8:27 | 8:45 | 18 | 2 | ALIVE | A | 145 |
| MY1 | 8:23 | . | . | 0 | TAG & PIN | | 140 |
| MY2 | 8:39 | 8:43 | 4 | 2 | ALIVE | A | 136 |
| MY3 | 8:49 | . | . | 0 | DEAD | P | 141 |
| MY4 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 141 |
| MY5 | 8:55 | 9:00 | 5 | 2 | ALIVE | A | 180 |
| MY6 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 133 |
| MY7 | 9:21 | 9:36 | 15 | 2 | ALIVE | A | 145 |
| MY8 | 8:57 | 9:17 | 20 | 2 | ALIVE | H | 194 |
| MY9 | 9:03 | 9:20 | 17 | 2 | ALIVE | A | 127 |
| MZ0 | 9:22 | 10:14 | 52 | 1 | ALIVE | A | 192 |
| MZ1 | 9:34 | 9:38 | 4 | 2 | ALIVE | A | 186 |
| MZ2 | 9:53 | 9:58 | 5 | 2 | ALIVE | A | 190 |
| MZ3 | 9:49 | 9:53 | 4 | 2 | ALIVE | A | 183 |
| MZ4 | 9:44 | 9:52 | 8 | 2 | ALIVE | A | 166 |
| MZ5 | 9:41 | 9:49 | 8 | 2 | ALIVE | A | 193 |
| MZ6 | 9:36 | 9:43 | 7 | 2 | ALIVE | A | 161 |
| MZ7 | 10:05 | 10:23 | 18 | 2 | ALIVE | A | 186 |
| MZ8 | 10:04 | 10:08 | 4 | 2 | ALIVE | A | 175 |

14 December 1999 - Testlot 29 : PL=4, Unit 6, Tip - Water temp=47.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| KK6 | 7:59 | 8:02 | 3 | 2 | DEAD | F | 171 |
| KK7 | 7:47 | 7:55 | 8 | 2 | ALIVE | H | 163 |
| KK8 | 7:48 | 7:55 | 7 | 2 | ALIVE | A | 137 |
| KK9 | 7:51 | 8:02 | 11 | 2 | ALIVE | A | 185 |
| KL0 | 7:47 | 7:50 | 3 | 2 | ALIVE | A | 135 |
| KL1 | 8:04 | 8:18 | 14 | 2 | ALIVE | A | 183 |
| KL2 | 8:07 | 8:15 | 8 | 2 | ALIVE | A | 195 |
| KL4 | 8:08 | 8:14 | 6 | 2 | ALIVE | A | 190 |
| KL5 | 8:04 | 8:07 | 3 | 2 | ALIVE | A | 143 |
| KL6 | 8:18 | . | . | 0 | TAG & PIN | | 130 |
| KL7 | 8:39 | 8:42 | 3 | 2 | ALIVE | A | 165 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| KL8 | 8:32 | 8:37 | 5 | 2 | ALIVE | A | 147 | |
| KL9 | 8:14 | 8:23 | 9 | 2 | ALIVE | TA | 187 | |
| KM0 | 8:24 | 8:30 | 6 | 2 | ALIVE | A | 196 | |
| KM1 | 8:48 | 9:18 | 30 | 2 | ALIVE | A | 195 | |
| KM2 | 8:43 | 8:45 | 2 | 2 | ALIVE | TA | 130 | |
| KM3 | 8:40 | . | . | 0 | DEAD | L | 136 | |
| KM4 | 8:45 | 8:55 | 10 | 2 | ALIVE | A | 140 | |
| KM5 | 8:47 | 8:48 | 1 | 2 | ALIVE | A | 183 | |
| KM6 | 9:11 | 9:22 | 11 | 2 | ALIVE | H | 150 | |
| KM7 | 9:15 | 9:24 | 9 | 2 | ALIVE | A | 140 | |
| KM8 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 141 | |
| KM9 | 9:23 | 9:37 | 14 | 2 | ALIVE | A | 182 | |
| KN0 | 9:12 | 9:14 | 2 | 2 | ALIVE | A | 141 | |
| KN1 | 9:41 | . | . | 0 | DEAD | ZL | 195 | |
| KN2 | 9:38 | 9:40 | 2 | 2 | ALIVE | H | 193 | |
| KN3 | 9:34 | . | . | 0 | UNKNOWN | X | 148 | |
| KN4 | 9:27 | . | . | 0 | TAG & PIN | | 139 | |
| KN5 | 9:29 | 9:33 | 4 | 2 | ALIVE | A | 130 | |
| KN6 | 10:20 | 10:22 | 2 | 2 | ALIVE | A | 190 | |
| KN7 | 10:18 | 10:20 | 2 | 2 | ALIVE | A | 184 | |
| KN8 | 10:07 | 10:08 | 1 | 2 | ALIVE | A | 150 | |
| KN9 | 10:15 | 10:16 | 1 | 2 | ALIVE | A | 155 | |
| KP0 | 10:09 | 10:14 | 5 | 2 | ALIVE | A | 173 | |
| KP1 | 10:04 | . | . | 0 | DEAD | P | 146 | |
| KP2 | 10:24 | 10:53 | 29 | 2 | ALIVE | A | 142 | |
| KP3 | 10:23 | 10:53 | 30 | 2 | ALIVE | A | 193 | |
| KP4 | 10:46 | 10:49 | 3 | 2 | ALIVE | A | 200 | |
| KP5 | 10:26 | 10:45 | 19 | 2 | ALIVE | A | 192 | |
| KP6 | 11:05 | 11:16 | 11 | 2 | ALIVE | A | 138 | |
| KP7 | 11:11 | 11:33 | 22 | 2 | ALIVE | A | 143 | |
| KP8 | 11:07 | 11:09 | 2 | 2 | ALIVE | A | 151 | |
| KP9 | 11:20 | 11:32 | 12 | 2 | ALIVE | A | 191 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| KR0 | 11:06 | 11:11 | 5 | 2 | ALIVE | A | 152 |
| KR1 | 11:16 | 11:19 | 3 | 2 | ALIVE | A | 144 |
| KR2 | 11:37 | 11:40 | 3 | 2 | ALIVE | A | 165 |
| KR3 | 11:36 | 11:38 | 2 | 2 | ALIVE | A | 181 |
| KR4 | 11:05 | 11:06 | 1 | 2 | ALIVE | A | 140 |
| KR5 | 11:17 | 11:27 | 10 | 2 | ALIVE | A | 187 |
| KR6 | 11:42 | 11:44 | 2 | 2 | ALIVE | A | 139 |
| KR7 | 11:41 | 11:45 | 4 | 2 | ALIVE | A | 167 |
| KR8 | 11:45 | 11:47 | 2 | 2 | ALIVE | A | 187 |
| KR9 | 11:46 | 11:47 | 1 | 2 | ALIVE | A | 180 |
| KS0 | 11:47 | 11:56 | 9 | 2 | ALIVE | A | 190 |
| KS1 | 12:16 | 12:48 | 32 | 2 | ALIVE | A | 204 |
| KS2 | 12:04 | 12:07 | 3 | 1 | ALIVE | HB | 197 |
| KS3 | 12:05 | 12:20 | 15 | 2 | ALIVE | A | 171 |
| KS4 | 12:03 | . | . | 0 | DEAD | P | 132 |
| KS5 | 12:20 | 12:27 | 7 | 2 | ALIVE | A | 199 |
| KS6 | 12:37 | 12:42 | 5 | 2 | ALIVE | A | 185 |
| KS7 | 12:43 | 12:51 | 8 | 2 | ALIVE | A | 191 |
| KS8 | 12:22 | . | . | 0 | UNKNOWN | X | 202 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| KS9 | 12:28 | 12:32 | 4 | 2 | ALIVE | A | 198 | |
| KT0 | 12:32 | 12:51 | 19 | 2 | ALIVE | A | 138 | |
| KT1 | 13:08 | 13:23 | 15 | 2 | DEAD | P | 203 | |
| KT2 | 13:00 | 13:07 | 7 | 2 | ALIVE | A | 182 | |
| KT4 | 12:52 | 12:58 | 6 | 2 | ALIVE | H | 191 | |
| KT5 | 12:52 | 13:13 | 21 | 2 | ALIVE | A | 146 | |
| KT6 | 13:14 | 13:20 | 6 | 2 | ALIVE | A | 182 | |
| KT7 | 13:24 | 13:29 | 5 | 2 | ALIVE | A | 188 | |
| KT8 | 13:15 | 13:29 | 14 | 2 | ALIVE | A | 133 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| KU0 | 13:21 | 13:23 | 2 | 2 | ALIVE | A | 185 |
| KU1 | 13:31 | 13:35 | 4 | 2 | ALIVE | A | 178 |
| KU2 | 13:37 | 13:57 | 20 | 2 | ALIVE | A | 200 |
| KU3 | 13:27 | 13:33 | 6 | 2 | ALIVE | A | 186 |
| KU4 | 13:32 | 13:40 | 8 | 2 | ALIVE | A | 175 |
| KU5 | 13:35 | 13:42 | 7 | 2 | ALIVE | A | 170 |
| KU7 | 14:12 | 14:14 | 2 | 2 | ALIVE | A | 173 |
| KU8 | 14:08 | 14:11 | 3 | 2 | ALIVE | A | 176 |
| KU9 | 14:08 | 14:12 | 4 | 2 | ALIVE | A | 190 |
| KV1 | 14:07 | 14:08 | 1 | 2 | ALIVE | A | 142 |
| KV2 | 14:21 | . | . | 0 | UNKNOWN | X | 166 |
| KV3 | 14:15 | 14:25 | 10 | 2 | ALIVE | A | 201 |
| KV4 | 14:15 | 14:16 | 1 | 2 | ALIVE | A | 185 |
| KV5 | 14:17 | 14:20 | 3 | 2 | ALIVE | A | 160 |
| KV6 | 14:26 | . | . | 0 | DEAD | Z | 190 |
| KV7 | 14:44 | 14:48 | 4 | 2 | ALIVE | A | 130 |
| KV8 | 14:48 | 14:54 | 6 | 2 | ALIVE | TA | 164 |
| KV9 | 14:46 | 14:58 | 12 | 2 | ALIVE | A | 182 |
| KW0 | 14:51 | 14:52 | 1 | 2 | ALIVE | A | 184 |
| KW1 | 14:55 | 14:57 | 2 | 2 | ALIVE | A | 179 |
| KW2 | 14:58 | 15:01 | 3 | 2 | ALIVE | A | 143 |
| KW3 | 15:02 | 15:06 | 4 | 2 | ALIVE | A | 188 |
| KW4 | 15:00 | 15:00 | 0 | 2 | ALIVE | A | 181 |
| KW5 | 14:58 | 15:01 | 3 | 2 | ALIVE | A | 182 |
| KW6 | 15:02 | 15:09 | 7 | 2 | ALIVE | A | 187 |
| KW8 | 15:11 | 15:24 | 13 | 2 | ALIVE | A | 191 |
| KW9 | 15:13 | 15:16 | 3 | 2 | ALIVE | A | 189 |
| KX1 | 15:17 | 15:19 | 2 | 2 | ALIVE | A | 184 |
| KX3 | 15:46 | 15:47 | 1 | 2 | ALIVE | A | 193 |
| KX4 | 15:39 | 15:45 | 6 | 2 | ALIVE | A | 207 |
| KX5 | 15:38 | 15:45 | 7 | 2 | ALIVE | A | 167 |
| KX6 | 15:47 | 15:48 | 1 | 2 | ALIVE | A | 173 |
| KX7 | 15:44 | 15:46 | 2 | 2 | ALIVE | A | 187 |
| KX8 | 16:00 | 16:02 | 2 | 2 | ALIVE | A | 143 |
| KX9 | 15:56 | 15:58 | 2 | 2 | ALIVE | A | 151 |
| KY0 | 16:03 | 16:20 | 17 | 2 | ALIVE | A | 187 |
| KY1 | 15:53 | 15:55 | 2 | 2 | ALIVE | A | 143 |
| KY2 | 15:55 | 16:01 | 6 | 2 | ALIVE | A | 186 |
| KY3 | 15:52 | 16:02 | 10 | 2 | ALIVE | A | 182 |
| KY4 | 15:48 | 15:49 | 1 | 2 | ALIVE | A | 190 |
| KY5 | 15:48 | 15:51 | 3 | 2 | ALIVE | A | 181 |
| KY6 | 15:51 | 16:07 | 16 | 2 | ALIVE | A | 180 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| KY7 | 15:49 | 15:52 | 3 | 2 | ALIVE | A | 179 | |
| KZ8 | 13:38 | 13:40 | 2 | 2 | ALIVE | A | 158 | |
| KZ9 | 13:11 | 13:13 | 2 | 2 | ALIVE | A | 159 | |
| 15 December 1999 - Testlot 30 : PL=1, Unit 6, Hub - Water temp=47.0 C | | | | | | | | |
| H00 | 13:25 | 13:28 | 3 | 2 | ALIVE | A | 171 | |
| H01 | 13:13 | 13:17 | 4 | 2 | ALIVE | A | 192 | |
| H02 | 13:31 | 13:34 | 3 | 2 | ALIVE | A | 188 | |
| H03 | 13:34 | 13:36 | 2 | 2 | ALIVE | A | 201 | |
| H04 | 14:19 | 14:21 | 2 | 2 | ALIVE | A | 200 | |
| H05 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 139 | |
| H06 | 13:36 | 13:38 | 2 | 2 | ALIVE | A | 170 | |
| H07 | 14:13 | 14:16 | 3 | 2 | ALIVE | A | 182 | |
| H08 | 13:58 | 14:09 | 11 | 2 | ALIVE | A | 181 | |
| H09 | 13:53 | 13:58 | 5 | 2 | ALIVE | A | 160 | |
| H10 | 13:54 | 14:02 | 8 | 2 | ALIVE | A | 194 | |
| H11 | 13:52 | 14:17 | 25 | 1 | ALIVE | BH | 172 | |
| H12 | 14:15 | 14:25 | 10 | 2 | ALIVE | A | 187 | |
| H13 | 14:17 | 14:20 | 3 | 2 | ALIVE | A | 188 | |
| HA0 | 8:05 | 8:07 | 2 | 2 | ALIVE | A | 150 | |
| HA1 | 8:08 | 8:11 | 3 | 2 | ALIVE | A | 185 | |
| HA2 | 8:10 | 8:17 | 7 | 2 | ALIVE | A | 182 | |
| HA3 | 8:07 | 8:18 | 11 | 2 | ALIVE | A | 154 | |
| HA4 | 8:04 | 8:07 | 3 | 2 | ALIVE | A | 144 | |
| HA5 | 8:18 | 8:20 | 2 | 2 | ALIVE | A | 193 | |
| HA6 | 8:18 | 8:26 | 8 | 2 | ALIVE | A | 184 | |
| HA7 | 8:12 | 8:15 | 3 | 2 | ALIVE | A | 182 | |
| HA8 | 8:16 | 8:19 | 3 | 2 | ALIVE | A | 147 | |
| HA9 | 8:19 | 8:23 | 4 | 2 | ALIVE | A | 177 | |
| HB0 | 9:12 | 9:14 | 2 | 2 | ALIVE | A | 180 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| HB1 | 9:18 | 9:32 | 14 | 2 | ALIVE | A | 197 | |
| HB2 | 8:45 | 8:48 | 3 | 2 | ALIVE | A | 180 | |
| HB3 | 8:59 | . | . | 0 | DEAD | Z | 147 | |
| HB4 | 8:59 | 9:02 | 3 | 2 | ALIVE | A | 135 | |
| HB5 | 9:08 | 9:10 | 2 | 2 | ALIVE | A | 186 | |
| HB6 | 9:15 | 9:16 | 1 | 2 | ALIVE | A | 197 | |
| HB7 | 9:16 | 9:18 | 2 | 2 | ALIVE | A | 199 | |
| HB8 | 9:02 | 9:06 | 4 | 2 | ALIVE | A | 182 | |
| HB9 | 9:19 | 9:25 | 6 | 2 | ALIVE | A | 198 | |
| HC0 | 8:44 | 8:46 | 2 | 2 | ALIVE | A | 137 | |
| HC1 | 8:46 | 8:48 | 2 | 2 | ALIVE | | 137 | |
| HC2 | 9:07 | 9:11 | 4 | 2 | ALIVE | A | 179 | |
| HC3 | 8:58 | 9:01 | 3 | 2 | ALIVE | A | 182 | |
| HC4 | 9:03 | 9:05 | 2 | 2 | ALIVE | A | 174 | |
| HC5 | 10:02 | 10:07 | 5 | 2 | ALIVE | A | 188 | |
| HC6 | 9:39 | 9:42 | 3 | 2 | ALIVE | A | 182 | |
| HC7 | 9:49 | 9:59 | 10 | 2 | ALIVE | A | 195 | |
| HC8 | 9:45 | 9:47 | 2 | 2 | ALIVE | A | 139 | |
| HC9 | 9:39 | 9:41 | 2 | 2 | ALIVE | A | 136 | |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| HD0 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 202 | |
| HD1 | 9:38 | 9:43 | 5 | 2 | ALIVE | A | 159 | |
| HD2 | 9:59 | 10:04 | 5 | 2 | ALIVE | A | 202 | |
| HD3 | 9:52 | 9:59 | 7 | 2 | ALIVE | A | 183 | |
| HD4 | 9:47 | 9:50 | 3 | 2 | ALIVE | A | 182 | |
| HD5 | 9:43 | 9:46 | 3 | 2 | ALIVE | A | 187 | |
| HD6 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 142 | |
| HD7 | 9:51 | 9:57 | 6 | 2 | ALIVE | A | 190 | |
| HD9 | 9:42 | 9:47 | 5 | 2 | ALIVE | A | 104 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| HE0 | 10:30 | 10:36 | 6 | 2 | ALIVE | A | 197 |
| HE1 | 10:26 | 10:29 | 3 | 2 | ALIVE | A | 203 |
| HE2 | 10:25 | 10:59 | 34 | 2 | ALIVE | A | 198 |
| HE3 | 10:26 | 10:35 | 9 | 2 | ALIVE | A | 204 |
| HE4 | 10:36 | 10:40 | 4 | 2 | ALIVE | A | 207 |
| HE5 | 10:42 | 10:44 | 2 | 2 | ALIVE | A | 197 |
| HE6 | 10:54 | 10:57 | 3 | 2 | ALIVE | A | 188 |
| HE7 | 10:49 | 10:51 | 2 | 2 | ALIVE | A | 176 |
| HE8 | 10:44 | 10:48 | 4 | 2 | ALIVE | A | 146 |
| HE9 | 10:00 | 10:14 | 14 | 2 | ALIVE | A | 190 |
| HF0 | 10:39 | . | . | 0 | DEAD | L | 136 |
| HF1 | 11:01 | 11:12 | 11 | 2 | ALIVE | A | 130 |
| HF2 | 11:07 | 11:10 | 3 | 2 | ALIVE | A | 187 |
| HF3 | 11:02 | 11:25 | 23 | 2 | ALIVE | A | 196 |
| HF4 | 11:11 | 11:14 | 3 | 2 | ALIVE | A | 187 |
| HF5 | 11:03 | 11:06 | 3 | 2 | ALIVE | A | 173 |
| HF6 | 11:16 | 11:29 | 13 | 2 | ALIVE | A | 146 |
| HF7 | 11:30 | 11:33 | 3 | 2 | ALIVE | A | 154 |
| HF8 | 11:31 | 11:38 | 7 | 2 | ALIVE | A | 167 |
| HF9 | 11:34 | 11:39 | 5 | 2 | ALIVE | A | 194 |
| HH0 | 11:29 | 11:37 | 8 | 2 | ALIVE | A | 141 |
| HH1 | 14:28 | 14:31 | 3 | 2 | ALIVE | A | 187 |
| HH2 | 14:32 | 14:41 | 9 | 2 | ALIVE | A | 196 |
| HH3 | 14:27 | 14:31 | 4 | 2 | ALIVE | A | 177 |
| HH4 | 14:28 | . | . | 0 | UNKNOWN | X | 172 |
| HH5 | 14:31 | 14:39 | 8 | 2 | ALIVE | A | 193 |
| HH6 | 11:55 | 11:57 | 2 | 2 | ALIVE | A | 135 |
| HH7 | 11:54 | 11:57 | 3 | 1 | ALIVE | BH | 142 |
| HH8 | 11:59 | 12:02 | 3 | 2 | ALIVE | A | 188 |
| HH9 | 11:53 | 11:56 | 3 | 2 | ALIVE | A | 135 |
| HJ0 | 11:57 | 12:00 | 3 | 2 | ALIVE | A | 176 |
| HJ1 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 180 |
| HJ2 | 12:05 | 12:09 | 4 | 2 | ALIVE | A | 205 |
| HJ3 | 12:08 | 12:12 | 4 | 2 | ALIVE | A | 180 |
| HJ4 | 12:10 | 12:14 | 4 | 2 | ALIVE | A | 187 |
| HJ5 | 12:04 | 12:09 | 5 | 2 | ALIVE | A | 142 |
| HJ6 | 12:13 | 12:24 | 11 | 2 | ALIVE | A | 183 |
| HJ7 | 12:19 | 12:20 | 1 | 2 | ALIVE | A | 141 |
| HJ8 | 12:21 | 12:27 | 6 | 2 | ALIVE | A | 161 |
| HJ9 | 12:15 | 12:17 | 2 | 2 | ALIVE | A | 147 |
| HK0 | 12:12 | 12:21 | 9 | 2 | ALIVE | A | 136 |
| HK1 | 12:29 | 12:34 | 5 | 2 | ALIVE | A | 195 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| HK2 | 12:29 | 12:34 | 5 | 2 | ALIVE | A | 197 | |
| HK3 | 12:27 | 12:29 | 2 | 2 | ALIVE | A | 187 | |
| HK4 | 12:23 | 12:26 | 3 | 2 | ALIVE | A | 176 | |
| HK5 | 12:25 | 12:29 | 4 | 2 | ALIVE | A | 177 | |
| HK7 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 176 | |
| HK8 | 12:41 | 12:43 | 2 | 2 | ALIVE | A | 188 | |
| HK9 | 12:44 | 13:04 | 20 | 2 | ALIVE | A | 191 | |
| HL0 | 12:41 | 12:43 | 2 | 2 | ALIVE | A | 172 | |
| HL1 | 12:40 | 12:44 | 4 | 2 | ALIVE | A | 135 | |
| HL2 | 12:49 | 12:50 | 1 | 2 | ALIVE | A | 164 | |
| HL3 | 12:55 | 12:58 | 3 | 2 | ALIVE | A | 192 | |
| HL4 | 13:10 | 13:21 | 11 | 2 | ALIVE | A | 180 | |
| HL6 | 12:47 | 12:53 | 6 | 2 | ALIVE | A | 140 | |
| HL7 | 13:14 | 13:20 | 6 | 2 | ALIVE | A | 193 | |
| HL8 | 13:26 | 13:30 | 4 | 2 | ALIVE | A | 197 | |
| KY8 | 7:39 | 7:47 | 8 | 2 | ALIVE | A | 187 | |
| KY9 | 7:42 | 7:48 | 6 | 2 | ALIVE | A | 199 | |
| KZ0 | 7:38 | 7:46 | 8 | 2 | ALIVE | A | 138 | |
| KZ1 | 7:47 | 8:06 | 19 | 2 | ALIVE | A | 159 | |
| KZ2 | 7:38 | 7:42 | 4 | 2 | ALIVE | A | 168 | |
| KZ3 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 133 | |
| KZ4 | 7:50 | 8:02 | 12 | 2 | ALIVE | A | 203 | |
| KZ5 | 8:02 | 8:04 | 2 | 2 | ALIVE | A | 174 | |
| KZ6 | 7:59 | 8:01 | 2 | 2 | ALIVE | A | 166 | |
| KZ7 | 7:52 | 7:58 | 6 | 2 | ALIVE | A | 138 | |
| 16 December 1999 - Testlot 31 : PL=3, Control - Water temp=48.0 C | | | | | | | | |
| H14 | 7:54 | 7:58 | 4 | 2 | ALIVE | A | 196 | |
| H15 | 7:54 | 7:59 | 5 | 2 | ALIVE | A | 130 | |
| H16 | 7:50 | 7:53 | 3 | 2 | ALIVE | A | 154 | |

| Fish No. | Time Released | Time Recovered | Time At Large (min.) | No. of Turb-N Tags recovered | Fish Data Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
|---|---|---|---|---|---|---|---|---|
| H17 | 7:46 | 7:51 | 5 | 2 | ALIVE | A | 184 | |
| H18 | 7:48 | 8:16 | 28 | 2 | ALIVE | A | 132 | |
| H19 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 131 | |
| H20 | 7:41 | 7:43 | 2 | 2 | ALIVE | A | 138 | |
| H21 | 7:40 | 7:42 | 2 | 2 | ALIVE | A | 182 | |
| H22 | 8:04 | 8:10 | 6 | 1 | ALIVE | B | 202 | |
| H23 | 7:57 | 8:04 | 7 | 2 | ALIVE | A | 173 | |
| H24 | 7:45 | 7:48 | 3 | 2 | ALIVE | A | 144 | |
| H25 | 7:40 | 7:44 | 4 | 2 | ALIVE | A | 200 | |
| H26 | 7:56 | 7:59 | 3 | 2 | ALIVE | A | 145 | |
| H27 | 7:52 | 7:56 | 4 | 2 | ALIVE | A | 148 | |
| H28 | 7:43 | 7:45 | 2 | 2 | ALIVE | A | 182 | |
| H29 | 8:33 | 8:37 | 4 | 2 | ALIVE | A | 148 | |
| H30 | 8:28 | 8:40 | 12 | 2 | ALIVE | A | 135 | |
| H31 | 8:41 | 8:45 | 4 | 2 | ALIVE | A | 185 | |
| H32 | 8:27 | 8:33 | 6 | 2 | ALIVE | A | 169 | |
| H33 | 8:37 | . | . | 0 | DEAD | Z | 201 | |
| H34 | 8:47 | 8:56 | 9 | 2 | ALIVE | A | 140 | |
| H35 | 9:09 | 9:12 | 3 | 2 | ALIVE | A | 190 | |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time Released | Time Recovered | Time At Large (min.) | No. of Turb-N Tags recovered | Fish Data Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
|---|---|---|---|---|---|---|---|---|
| H36 | 8:56 | 9:03 | 7 | 2 | ALIVE | A | 146 | |
| H37 | 9:00 | 9:08 | 8 | 2 | ALIVE | A | 158 | |
| H38 | 9:09 | 9:15 | 6 | 2 | ALIVE | A | 187 | |
| H39 | 9:32 | 9:43 | 11 | 2 | ALIVE | A | 186 | |
| H40 | 9:13 | 9:35 | 22 | 2 | ALIVE | A | 152 | |
| H41 | 9:34 | 9:42 | 8 | 2 | ALIVE | A | 204 | |
| H42 | 9:16 | 9:18 | 2 | 2 | ALIVE | A | 142 | |
| H43 | 9:19 | 9:34 | 15 | 2 | ALIVE | A | 135 | |
| H44 | 9:41 | 9:46 | 5 | 2 | ALIVE | A | 183 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H45 | 9:42 | 9:54 | 12 | 2 | ALIVE | A | 193 |
| H46 | 9:46 | 9:52 | 6 | 2 | ALIVE | A | 180 |
| H47 | 9:43 | 9:52 | 9 | 2 | ALIVE | A | 189 |
| H48 | 9:37 | 9:41 | 4 | 2 | ALIVE | A | 132 |
| H49 | 10:15 | 10:18 | 3 | 2 | ALIVE | A | 133 |
| H50 | 10:21 | 10:26 | 5 | 2 | ALIVE | A | 132 |
| H51 | 10:30 | 10:33 | 3 | 2 | ALIVE | A | 203 |
| H52 | 10:19 | 10:22 | 3 | 2 | ALIVE | A | 145 |
| H53 | 10:05 | 10:06 | 1 | 2 | ALIVE | A | 204 |
| H54 | 10:12 | 10:14 | 2 | 2 | ALIVE | A | 146 |
| H55 | 10:02 | 10:05 | 3 | 2 | ALIVE | A | 145 |
| H56 | 10:06 | 10:08 | 2 | 2 | ALIVE | A | 160 |
| H57 | 10:03 | 10:17 | 14 | 2 | ALIVE | A | 160 |
| H58 | 10:08 | 10:11 | 3 | 2 | ALIVE | A | 197 |
| H59 | 10:23 | 10:26 | 3 | 2 | ALIVE | A | 186 |
| H60 | 10:20 | 10:38 | 18 | 2 | ALIVE | A | 160 |
| H61 | 10:26 | 10:30 | 4 | 2 | ALIVE | A | 190 |
| H62 | 10:25 | 10:40 | 15 | 2 | ALIVE | A | 184 |
| H63 | 10:33 | 10:36 | 3 | 2 | ALIVE | A | 207 |
| H64 | 10:50 | 10:53 | 3 | 2 | ALIVE | A | 158 |
| H65 | 10:49 | 10:51 | 2 | 2 | ALIVE | A | 140 |
| H66 | 10:48 | 10:54 | 6 | 2 | ALIVE | A | 135 |
| H67 | 10:54 | 11:00 | 6 | 2 | ALIVE | A | 190 |
| H68 | 10:52 | 10:56 | 4 | 2 | ALIVE | A | 190 |
| H69 | 10:59 | 11:11 | 12 | 2 | ALIVE | A | 155 |
| H70 | 11:01 | 11:08 | 7 | 2 | ALIVE | A | 167 |
| H71 | 10:57 | 11:00 | 3 | 2 | ALIVE | A | 169 |
| H72 | 11:01 | 11:05 | 4 | 2 | ALIVE | A | 145 |
| H73 | 11:05 | 11:09 | 4 | 2 | ALIVE | A | 138 |
| H74 | 11:10 | 11:14 | 4 | 2 | ALIVE | A | 138 |
| H75 | 11:14 | 11:18 | 4 | 2 | ALIVE | A | 138 |
| H76 | 11:11 | 11:15 | 4 | 2 | ALIVE | A | 137 |
| H77 | 11:09 | 11:15 | 6 | 2 | ALIVE | A | 184 |
| H78 | 11:15 | 11:24 | 9 | 2 | ALIVE | A | 193 |
| H79 | 11:17 | 11:25 | 8 | 2 | ALIVE | A | 159 |
| H80 | 11:26 | 11:33 | 7 | 2 | ALIVE | A | 195 |
| H81 | 11:24 | 11:47 | 23 | 2 | ALIVE | A | 152 |
| H82 | 11:18 | 11:41 | 23 | 2 | ALIVE | A | 174 |
| H83 | 11:34 | 11:36 | 2 | 2 | DEAD | A | 202 |
| H84 | 11:59 | . | . | 0 | DEAD | Z | 142 |
| H85 | 11:57 | 12:01 | 4 | 2 | ALIVE | A | 197 |
| H86 | 12:00 | 12:06 | 6 | 2 | ALIVE | A | 154 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| H87 | 11:58 | 12:01 | 3 | 2 | ALIVE | A | 139 | |
| H88 | 12:02 | 12:08 | 6 | 2 | ALIVE | A | 194 | |
| H89 | 12:07 | 15:15 | 188 | 2 | ALIVE | A | 150 | |
| H90 | 12:25 | 12:34 | 9 | 2 | ALIVE | A | 188 | |
| H91 | 12:09 | 12:27 | 18 | 2 | ALIVE | A | 149 | |
| H92 | 12:22 | 12:24 | 2 | 2 | ALIVE | A | 187 | |
| H93 | 12:18 | 12:21 | 3 | 2 | ALIVE | A | 197 | |
| H94 | 12:42 | 15:15 | 153 | 2 | ALIVE | A | 192 | |
| H95 | 12:39 | 12:53 | 14 | 2 | ALIVE | A | 147 | |
| H96 | 12:35 | 12:41 | 6 | 2 | ALIVE | A | 192 | |
| H97 | 12:28 | 12:50 | 22 | 2 | ALIVE | A | 130 | |
| H98 | 12:36 | 12:39 | 3 | 2 | ALIVE | A | 185 | |
| H99 | 12:57 | 13:07 | 10 | 2 | ALIVE | A | 192 | |
| HM0 | 13:01 | 14:00 | 59 | 2 | ALIVE | A | 203 | |
| HM1 | 12:56 | . | . | 0 | TAG & PIN | | 147 | |
| HM2 | 12:54 | 12:57 | 3 | 2 | ALIVE | A | 154 | |
| HM3 | 12:53 | 13:03 | 10 | 2 | ALIVE | A | 179 | |
| HM4 | 13:08 | 13:10 | 2 | 2 | ALIVE | A | 143 | |
| HM5 | 13:08 | 13:23 | 15 | 2 | ALIVE | A | 131 | |
| HM6 | 13:26 | 13:31 | 5 | 2 | ALIVE | A | 192 | |
| HM7 | 13:27 | 13:32 | 5 | 2 | ALIVE | A | 190 | |
| HM8 | 13:25 | 13:27 | 2 | 2 | ALIVE | A | 197 | |
| HM9 | 13:48 | 13:50 | 2 | 2 | ALIVE | A | 150 | |
| HN0 | 13:51 | 14:23 | 32 | 2 | ALIVE | A | 189 | |
| HN1 | 14:12 | 14:25 | 13 | 2 | ALIVE | A | 189 | |
| HN4 | 14:19 | 15:02 | 43 | 2 | ALIVE | A | 203 | |
| HN5 | 14:24 | 14:27 | 3 | 2 | ALIVE | A | 138 | |
| HN6 | 14:33 | 14:36 | 3 | 2 | ALIVE | A | 187 | |
| HN7 | 14:26 | 14:32 | 6 | 2 | ALIVE | A | 146 | |
| HN8 | 14:31 | 15:15 | 44 | 2 | ALIVE | A | 190 | |
| HN9 | 14:37 | 14:48 | 11 | 2 | ALIVE | A | 198 | |
| HP0 | 14:49 | 15:07 | 18 | 2 | ALIVE | A | 174 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| HP1 | 14:58 | 15:04 | 6 | 2 | ALIVE | A | 191 |
| HP2 | 14:39 | 15:39 | 60 | 2 | ALIVE | AT | 193 |
| HP3 | 14:48 | 15:39 | 51 | 2 | ALIVE | AT | 163 |
| HP4 | 15:05 | . | . | 0 | UNKNOWN | X | 183 |
| HP5 | 15:06 | 15:09 | 3 | 2 | ALIVE | A | 138 |
| HP6 | 15:30 | 15:38 | 8 | 2 | ALIVE | A | 148 |
| HP7 | 15:10 | 15:37 | 27 | 2 | ALIVE | A | 185 |
| HP8 | 15:40 | 15:46 | 6 | 2 | ALIVE | A | 178 |
| HP9 | 15:11 | . | . | 0 | DEAD | Z | 135 |
| HR0 | 15:47 | 15:49 | 2 | 2 | ALIVE | A | 134 |
| HR1 | 15:46 | 15:51 | 5 | 2 | DEAD | | 163 |
| HR2 | 15:50 | 15:53 | 3 | 2 | ALIVE | A | 181 |
| HR3 | 15:41 | 15:45 | 4 | 2 | ALIVE | A | 139 |
| HR4 | 15:49 | 16:08 | 19 | 2 | ALIVE | A | 187 |
| HR5 | 15:52 | 15:55 | 3 | 2 | ALIVE | H | 165 |
| HR6 | 15:53 | 16:01 | 8 | 2 | ALIVE | A | 145 |
| HR7 | 15:55 | 16:01 | 6 | 2 | ALIVE | BH | 189 |
| HT7 | 13:34 | 13:36 | 2 | 2 | ALIVE | A | 145 |
| HT8 | 13:33 | 13:40 | 7 | 2 | ALIVE | A | 201 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| HT9 | 13:12 | 13:24 | 12 | 2 | ALIVE | A | 179 | |
| 17 December 1999 - Testlot 32 : PL=4, Unit 5, Hub - Water temp=47.5 C | | | | | | | | |
| HR8 | 7:42 | 7:49 | 7 | 2 | ALIVE | A | 182 | |
| HR9 | 7:40 | 7:46 | 6 | 2 | ALIVE | A | 187 | |
| HS0 | 7:35 | 7:44 | 9 | 2 | ALIVE | A | 166 | |
| HS1 | 7:35 | 7:39 | 4 | 2 | ALIVE | A | 133 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| HS2 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 167 |
| HS3 | 7:50 | 7:52 | 2 | 2 | ALIVE | A | 145 |
| HS4 | 7:45 | 7:50 | 5 | 2 | ALIVE | A | 135 |
| HS5 | 7:51 | 8:00 | 9 | 2 | ALIVE | A | 178 |
| HS6 | 7:52 | 8:00 | 8 | 2 | ALIVE | A | 187 |
| HS7 | 7:46 | 7:51 | 5 | 2 | ALIVE | A | 158 |
| HS8 | 8:06 | 8:16 | 10 | 2 | ALIVE | A | 170 |
| HS9 | 8:00 | 8:04 | 4 | 2 | ALIVE | A | 146 |
| HT0 | 8:05 | 8:20 | 15 | 2 | ALIVE | | 144 |
| HT1 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 141 |
| HT2 | 7:55 | 8:06 | 11 | 2 | ALIVE | A | 147 |
| HT3 | 8:26 | 8:31 | 5 | 2 | ALIVE | A | 203 |
| HT4 | 8:18 | 8:31 | 13 | 2 | ALIVE | A | 187 |
| HT5 | 8:23 | 8:31 | 8 | 2 | ALIVE | A | 198 |
| HT6 | 8:17 | 8:27 | 10 | 2 | ALIVE | H | 155 |
| HU0 | 8:41 | 8:46 | 5 | 2 | ALIVE | A | 152 |
| HU1 | 8:38 | 8:40 | 2 | 2 | ALIVE | A | 155 |
| HU2 | 8:40 | 8:47 | 7 | 2 | ALIVE | A | 150 |
| HU3 | 8:53 | 8:57 | 4 | 2 | ALIVE | A | 137 |
| HU4 | 8:57 | 9:08 | 11 | 2 | ALIVE | A | 137 |
| HU5 | 8:50 | 8:52 | 2 | 2 | ALIVE | A | 149 |
| HU6 | 8:56 | 9:09 | 13 | 2 | ALIVE | A | 192 |
| HU7 | 8:50 | 8:55 | 5 | 2 | ALIVE | A | 184 |
| HU8 | 9:11 | 9:19 | 8 | 2 | ALIVE | A | 193 |
| HU9 | 9:13 | 9:22 | 9 | 2 | ALIVE | A | 176 |
| HV0 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 186 |
| HV1 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 132 |
| HV2 | 9:09 | 9:17 | 8 | 2 | ALIVE | A | 191 |
| HV3 | 9:17 | 9:40 | 23 | 2 | ALIVE | A | 132 |
| HV4 | 9:25 | 9:27 | 2 | 2 | ALIVE | A | 168 |
| HV5 | 9:20 | 9:24 | 4 | 2 | ALIVE | A | 131 |
| HV6 | 9:23 | 9:31 | 8 | 2 | ALIVE | A | 144 |
| HV7 | 9:28 | 9:43 | 15 | 2 | ALIVE | A | 190 |
| HV8 | 10:05 | 10:11 | 6 | 2 | ALIVE | A | 190 |
| HV9 | 10:00 | 10:04 | 4 | 2 | ALIVE | A | 192 |
| HW0 | 10:00 | 10:04 | 4 | 2 | ALIVE | A | 182 |
| HW1 | 10:01 | 10:09 | 8 | 2 | ALIVE | A | 178 |
| HW2 | 10:04 | 10:16 | 12 | 2 | ALIVE | A | 203 |
| HW3 | 10:14 | 10:20 | 6 | 2 | ALIVE | A | 174 |
| HW4 | 10:20 | 10:23 | 3 | 2 | ALIVE | A | 167 |
| HW5 | 10:17 | 10:24 | 7 | 2 | ALIVE | A | 205 |
| HW6 | 10:19 | 10:26 | 7 | 2 | ALIVE | A | 206 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| HW7 | 10:10 | 10:13 | 3 | 2 | ALIVE | A | 152 | |
| HW8 | 10:23 | 10:32 | 9 | 2 | ALIVE | A | 188 | |
| HW9 | 10:28 | 10:35 | 7 | 2 | ALIVE | A | 152 | |
| HX0 | 10:27 | 10:31 | 4 | 2 | ALIVE | A | 196 | |
| HX1 | 10:57 | 11:04 | 7 | 2 | ALIVE | A | 146 | |
| HX2 | 10:24 | 10:27 | 3 | 2 | ALIVE | A | 157 | |
| HX3 | 10:59 | 11:03 | 4 | 2 | ALIVE | A | 140 | |
| HX4 | 11:08 | 11:14 | 6 | 2 | ALIVE | A | 192 | |
| HX5 | 11:07 | 11:11 | 4 | 2 | ALIVE | A | 141 | |
| HX6 | 11:12 | 11:12 | 0 | 2 | ALIVE | A | 132 | |
| HX8 | 11:28 | 11:34 | 6 | 2 | ALIVE | A | 178 | |
| HX9 | 11:34 | 11:40 | 6 | 2 | ALIVE | A | 196 | |
| HY0 | 11:31 | 11:34 | 3 | 2 | ALIVE | A | 195 | |
| HY1 | 11:24 | 11:26 | 2 | 2 | ALIVE | A | 143 | |
| HY2 | 11:27 | 11:30 | 3 | 2 | ALIVE | A | 145 | |
| HY3 | 12:44 | 12:49 | 5 | 2 | ALIVE | A | 186 | |
| HY4 | 12:15 | 12:18 | 3 | 2 | ALIVE | A | 206 | |
| HY5 | 12:37 | 12:48 | 11 | 2 | ALIVE | A | 162 | |
| HY6 | 12:18 | 12:26 | 8 | 2 | ALIVE | A | 139 | |
| HY7 | 12:05 | 12:16 | 11 | 2 | ALIVE | H | 190 | |
| HY8 | 12:36 | 12:45 | 9 | 2 | ALIVE | A | 132 | |
| HY9 | 11:56 | 12:00 | 4 | 2 | ALIVE | A | 131 | |
| HZ0 | 12:11 | 12:14 | 3 | 2 | ALIVE | A | 176 | |
| HZ1 | 12:39 | 12:43 | 4 | 2 | ALIVE | A | 192 | |
| HZ2 | 12:28 | 12:38 | 10 | 2 | ALIVE | A | 184 | |
| HZ3 | 12:02 | 12:04 | 2 | 2 | ALIVE | A | 188 | |
| HZ4 | 12:27 | 12:34 | 7 | 2 | ALIVE | A | 130 | |
| HZ5 | 11:56 | 12:10 | 14 | 2 | ALIVE | A | 143 | |
| HZ6 | 11:57 | 12:03 | 6 | 2 | ALIVE | A | 148 | |
| HZ7 | 8:36 | 8:41 | 5 | 2 | ALIVE | A | 190 | |
| HZ8 | 8:37 | 8:42 | 5 | 2 | ALIVE | A | 202 | |
| HZ9 | 8:08 | 8:16 | 8 | 2 | ALIVE | A | 138 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PA0 | 12:04 | 12:08 | 4 | 2 | ALIVE | A | 173 |
| PA1 | 13:44 | 13:54 | 10 | 2 | ALIVE | A | 177 |
| PA2 | 13:18 | 13:20 | 2 | 2 | ALIVE | A | 133 |
| PA3 | 13:37 | 13:41 | 4 | 2 | ALIVE | A | 181 |
| PA4 | 12:59 | 13:05 | 6 | 2 | ALIVE | A | 136 |
| PA5 | 13:39 | 13:43 | 4 | 2 | ALIVE | A | 194 |
| PA6 | 13:13 | 13:17 | 4 | 2 | ALIVE | A | 142 |
| PA7 | 13:08 | 13:12 | 4 | 2 | ALIVE | A | 138 |
| PA8 | 13:21 | 13:33 | 12 | 2 | ALIVE | A | 182 |
| PA9 | 13:02 | 13:05 | 3 | 2 | ALIVE | A | 142 |
| PB0 | 13:09 | 13:14 | 5 | 2 | ALIVE | A | 145 |
| PB1 | 12:58 | 13:01 | 3 | 2 | ALIVE | A | 135 |
| PB2 | 13:19 | 13:36 | 17 | 2 | ALIVE | A | 137 |
| PB3 | 13:06 | 13:08 | 2 | 2 | ALIVE | A | 135 |
| PB4 | 13:14 | 13:15 | 1 | 2 | ALIVE | A | 133 |
| PB5 | 13:42 | 13:49 | 7 | 2 | ALIVE | A | 179 |
| PB6 | 14:10 | 14:20 | 10 | 2 | ALIVE | A | 153 |
| PB7 | 14:22 | 14:24 | 2 | 2 | ALIVE | A | 190 |
| PB8 | 14:09 | 14:21 | 12 | 2 | ALIVE | A | 177 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PB9 | 14:08 | 14:11 | 3 | 2 | ALIVE | A | 180 | |
| PC0 | 14:13 | 14:44 | 31 | 2 | ALIVE | A | 194 | |
| PC1 | 14:26 | 14:33 | 7 | 2 | ALIVE | A | 135 | |
| PC2 | 14:37 | 14:42 | 5 | 2 | ALIVE | A | 145 | |
| PC3 | 14:24 | 14:38 | 14 | 2 | ALIVE | A | 134 | |
| PC4 | 14:43 | 14:54 | 11 | 2 | ALIVE | A | 186 | |
| PC5 | 14:40 | 15:00 | 20 | 2 | ALIVE | A | 186 | |
| PC6 | 15:02 | 15:14 | 12 | 2 | ALIVE | A | 194 | |
| PC7 | 15:00 | 15:04 | 4 | 2 | ALIVE | A | 140 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PC8 | 14:49 | 14:54 | 5 | 2 | ALIVE | A | 200 |
| PC9 | 14:56 | 15:10 | 14 | 2 | ALIVE | A | 197 |
| PD0 | 14:55 | 14:59 | 4 | 2 | ALIVE | A | 170 |
| PD1 | 15:11 | 15:14 | 3 | 2 | ALIVE | A | 144 |
| PD2 | 15:15 | 15:21 | 6 | 2 | ALIVE | A | 134 |
| PD3 | 15:05 | 15:09 | 4 | 2 | ALIVE | A | 131 |
| PD4 | 15:10 | 15:14 | 4 | 2 | ALIVE | A | 130 |
| PD5 | 15:16 | 15:26 | 10 | 2 | ALIVE | A | 152 |
| PD6 | 15:24 | 15:27 | 3 | 2 | ALIVE | A | 138 |
| PD7 | 15:26 | 15:39 | 13 | 2 | ALIVE | A | 146 |
| PD8 | 15:19 | 15:23 | 4 | 2 | ALIVE | A | 131 |
| PD9 | 15:27 | 15:52 | 25 | 2 | ALIVE | A | 194 |
| PE0 | 15:21 | 15:29 | 8 | 2 | ALIVE | A | 187 |
| PE9 | 11:39 | 11:49 | 10 | 2 | ALIVE | A | 188 |

18 December 1999 - Testlot 33 : PL=2, Unit 5, Tip - Water temp=46.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BP3 | 13:08 | 15:39 | 151 | 1 | DEAD | F | 137 |
| PE1 | 7:36 | 7:49 | 13 | 2 | ALIVE | A | 141 |
| PE2 | 7:37 | . | . | 0 | DEAD | Z | 137 |
| PE3 | 7:43 | 7:47 | 4 | 2 | ALIVE | A | 149 |
| PE4 | 7:35 | 7:42 | 7 | 2 | ALIVE | A | 167 |
| PE5 | 7:47 | 7:52 | 5 | 2 | ALIVE | A | 140 |
| PE6 | 7:58 | 8:03 | 5 | 2 | ALIVE | A | 148 |
| PE7 | 7:49 | 7:55 | 6 | 2 | ALIVE | A | 145 |
| PE8 | 7:55 | 8:02 | 7 | 2 | ALIVE | A | 135 |
| PF0 | 8:02 | 8:25 | 23 | 2 | ALIVE | A | 136 |
| PF1 | 7:52 | 7:58 | 6 | 2 | ALIVE | A | 186 |
| PF2 | 8:41 | 8:46 | 5 | 2 | ALIVE | A | 145 |
| PF3 | 8:05 | 8:10 | 5 | 2 | ALIVE | A | 146 |
| PF4 | 8:11 | 8:40 | 29 | 1 | DEAD | F | 140 |
| PF5 | 8:28 | 8:55 | 27 | 2 | ALIVE | A | 167 |
| PF6 | 8:10 | . | . | 0 | UNKNOWN | X | 136 |
| PF7 | 8:47 | 9:00 | 13 | 2 | ALIVE | A | 142 |
| PF8 | 8:44 | 8:45 | 1 | 2 | ALIVE | A | 141 |
| PF9 | 8:46 | 8:55 | 9 | 2 | ALIVE | A | 165 |
| PH0 | 8:56 | 8:59 | 3 | 2 | ALIVE | A | 178 |
| PH1 | 8:56 | 9:06 | 10 | 2 | ALIVE | A | 194 |
| PH2 | 9:07 | 9:15 | 8 | 2 | ALIVE | A | 137 |
| PH3 | 9:09 | 9:21 | 12 | 2 | ALIVE | A | 138 |
| PH4 | 9:11 | 9:15 | 4 | 2 | ALIVE | A | 140 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PH5 | 9:15 | 9:20 | 5 | 2 | ALIVE | A | 159 | |
| PH6 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 138 | |
| PH7 | 9:21 | 9:26 | 5 | 2 | ALIVE | A | 131 | |
| PH8 | 9:23 | . | . | 0 | UNKNOWN | X | 140 | |
| PH9 | 9:22 | 9:31 | 9 | 2 | ALIVE | A | 209 | |
| PJ0 | 9:25 | 9:28 | 3 | 2 | ALIVE | A | 192 | |
| PJ1 | 9:18 | 9:23 | 5 | 2 | ALIVE | A | 188 | |
| PJ2 | 9:28 | 9:33 | 5 | 2 | ALIVE | A | 141 | |
| PJ3 | 9:51 | 15:39 | 348 | 1 | DEAD | F | 174 | |
| PJ4 | 9:32 | 9:35 | 3 | 2 | ALIVE | A | 154 | |
| PJ5 | 9:35 | . | . | 0 | DEAD | Z | 187 | |
| PJ6 | 9:36 | 10:07 | 31 | 1 | ALIVE | B | 145 | |
| PJ7 | 10:12 | 10:17 | 5 | 2 | ALIVE | A | 131 | |
| PJ8 | 10:14 | 10:31 | 17 | 2 | ALIVE | A | 136 | |
| PJ9 | 9:57 | 9:59 | 2 | 2 | ALIVE | A | 147 | |
| PK0 | 10:18 | 10:25 | 7 | 2 | ALIVE | A | 137 | |
| PK1 | 10:00 | 15:37 | 337 | 2 | ALIVE | A | 135 | |
| PK2 | 10:52 | 11:00 | 8 | 2 | ALIVE | A | 133 | |
| PK3 | 11:00 | 11:03 | 3 | 2 | ALIVE | A | 180 | |
| PK4 | 10:15 | 10:49 | 34 | 2 | ALIVE | A | 148 | |
| PK5 | 10:51 | 10:55 | 4 | 2 | ALIVE | A | 180 | |
| PK6 | 10:53 | 11:00 | 7 | 2 | ALIVE | A | 134 | |
| PK7 | 10:56 | 10:59 | 3 | 2 | ALIVE | A | 139 | |
| PK8 | 10:46 | 10:49 | 3 | 2 | ALIVE | H | 187 | |
| PK9 | 10:40 | 10:44 | 4 | 2 | ALIVE | A | 133 | |
| PL0 | 11:00 | 11:02 | 2 | 2 | ALIVE | A | 132 | |
| PL1 | 11:02 | 11:05 | 3 | 2 | ALIVE | A | 132 | |
| PL2 | 10:42 | 10:44 | 2 | 2 | ALIVE | A | 143 | |
| PL3 | 10:49 | 10:51 | 2 | 2 | ALIVE | A | 147 | |
| PL4 | 10:41 | 10:47 | 6 | 2 | ALIVE | A | 181 | |
| PL5 | 10:48 | 10:50 | 2 | 2 | ALIVE | A | 135 | |
| PL6 | 11:01 | . | . | 0 | DEAD | Z | 132 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PL7 | 11:27 | 11:36 | 9 | 2 | ALIVE | A | 133 |
| PL8 | 11:26 | 11:30 | 4 | 2 | ALIVE | A | 148 |
| PL9 | 11:26 | 11:34 | 8 | 2 | ALIVE | A | 193 |
| PM0 | 11:34 | 11:57 | 23 | 2 | ALIVE | A | 142 |
| PM1 | 11:31 | 11:33 | 2 | 2 | ALIVE | A | 139 |
| PM2 | 11:41 | 11:44 | 3 | 2 | ALIVE | B | 139 |
| PM3 | 11:40 | 11:43 | 3 | 2 | ALIVE | A | 133 |
| PM4 | 11:40 | 11:45 | 5 | 2 | ALIVE | A | 195 |
| PM5 | 11:38 | 11:40 | 2 | 2 | ALIVE | A | 131 |
| PM6 | 11:36 | 11:40 | 4 | 2 | ALIVE | A | 166 |
| PM7 | 11:45 | 11:48 | 3 | 2 | ALIVE | A | 131 |
| PM8 | 11:50 | 11:55 | 5 | 2 | ALIVE | A | 146 |
| PM9 | 11:48 | 15:39 | 231 | 2 | ALIVE | A | 162 |
| PN0 | 11:46 | 11:48 | 2 | 2 | ALIVE | A | 151 |
| PN1 | 11:49 | 11:52 | 3 | 2 | ALIVE | A | 137 |
| PN2 | 12:05 | 12:10 | 5 | 2 | ALIVE | A | 192 |
| PN3 | 11:58 | 12:04 | 6 | 2 | ALIVE | A | 143 |
| PN4 | 11:58 | 12:01 | 3 | 2 | ALIVE | A | 159 |
| PN5 | 12:04 | 12:07 | 3 | 2 | ALIVE | A | 181 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PN6 | 12:01 | 12:18 | 17 | 2 | ALIVE | A | 135 | |
| PN7 | 12:18 | . | . | 0 | TAG & PIN | | 134 | |
| PN8 | 12:16 | 12:23 | 7 | 2 | ALIVE | A | 196 | |
| PN9 | 12:10 | 12:18 | 8 | 2 | ALIVE | A | 142 | |
| PP0 | 12:08 | 12:15 | 7 | 2 | ALIVE | A | 146 | |
| PP1 | 12:25 | 12:27 | 2 | 2 | ALIVE | A | 140 | |
| PP2 | 13:06 | 13:09 | 3 | 2 | ALIVE | A | 144 | |
| PP4 | 13:03 | 13:12 | 9 | 2 | ALIVE | A | 137 | |
| PP5 | 13:04 | 13:06 | 2 | 2 | ALIVE | A | 138 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PP6 | 13:03 | 13:34 | 31 | 2 | ALIVE | H | 176 |
| PP7 | 13:32 | 13:35 | 3 | 2 | ALIVE | A | 153 |
| PP8 | 13:13 | 13:16 | 3 | 2 | ALIVE | A | 140 |
| PP9 | 13:27 | 13:32 | 5 | 2 | ALIVE | A | 137 |
| PR0 | 13:22 | 13:27 | 5 | 2 | ALIVE | A | 185 |
| PR1 | 13:17 | 13:22 | 5 | 2 | ALIVE | A | 147 |
| PR2 | 13:44 | . | . | 0 | TAG & PIN | | 140 |
| PR3 | 13:36 | 13:55 | 19 | 2 | ALIVE | A | 145 |
| PR4 | 13:43 | 13:56 | 13 | 2 | ALIVE | A | 175 |
| PR5 | 13:38 | 13:42 | 4 | 2 | ALIVE | A | 144 |
| PR6 | 13:56 | 14:03 | 7 | 2 | ALIVE | A | 192 |
| PR7 | 14:01 | 14:13 | 12 | 2 | ALIVE | A | 141 |
| PR8 | 14:05 | 14:17 | 12 | 2 | ALIVE | A | 143 |
| PR9 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 192 |
| PS0 | 14:14 | 14:20 | 6 | 1 | DEAD | ENB | 130 |
| PS1 | 14:04 | 14:14 | 10 | 2 | ALIVE | A | 145 |
| PS2 | 14:21 | 14:24 | 3 | 2 | ALIVE | A | 143 |
| PS3 | 14:27 | 14:30 | 3 | 2 | ALIVE | A | 129 |
| PS4 | 14:19 | 14:29 | 10 | 2 | ALIVE | A | 139 |
| PS5 | 14:15 | 14:31 | 16 | 2 | ALIVE | A | 133 |
| PS6 | 14:24 | 14:27 | 3 | 2 | ALIVE | A | 142 |
| PS7 | 14:29 | 14:38 | 9 | 2 | ALIVE | A | 139 |
| PS8 | 15:06 | 15:06 | 0 | 2 | ALIVE | A | 138 |
| PS9 | 14:54 | 14:59 | 5 | 2 | ALIVE | A | 131 |
| PT0 | 15:08 | 15:08 | 0 | 2 | ALIVE | A | 148 |
| PT1 | 14:51 | 14:51 | 0 | 2 | ALIVE | A | 133 |
| PT2 | 14:54 | 14:54 | 0 | 2 | ALIVE | A | 125 |
| PT3 | 15:02 | 15:02 | 0 | 2 | ALIVE | A | 131 |
| PT4 | 15:10 | 15:10 | 0 | 2 | ALIVE | A | 199 |
| PT5 | 14:50 | 14:54 | 4 | 2 | ALIVE | A | 148 |
| PT6 | 15:07 | 15:07 | 0 | 2 | ALIVE | A | 135 |
| PT7 | 15:01 | 15:01 | 0 | 2 | ALIVE | A | 154 |
| PT9 | 12:28 | 12:32 | 4 | 2 | ALIVE | A | 136 |
| PU0 | 15:01 | 15:09 | 8 | 2 | ALIVE | A | 131 |
| PU1 | 14:46 | 14:57 | 11 | 2 | ALIVE | A | 146 |
| PU2 | 14:54 | 15:00 | 6 | 2 | ALIVE | A | 201 |
| PU3 | 14:45 | 14:49 | 4 | 2 | ALIVE | A | 161 |
| PU4 | 14:46 | 14:48 | 2 | 2 | ALIVE | A | 190 |
| PU5 | 14:31 | 14:34 | 3 | 2 | ALIVE | A | 181 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 19 December 1999 - Testlot 34 : PL=3, Unit 6, Hub - Water temp=47.0 C | | | | | | | | |
| PU6 | 7:31 | 7:37 | 6 | 2 | ALIVE | A | 177 | |
| PU7 | 7:38 | 7:42 | 4 | 2 | ALIVE | A | 142 | |
| PU8 | 7:31 | 7:46 | 15 | 2 | ALIVE | A | 145 | |
| PU9 | 7:32 | 7:33 | 1 | 1 | ALIVE | B | 205 | |
| PV0 | 7:36 | 7:38 | 2 | 2 | ALIVE | A | 188 | |
| PV1 | 7:48 | 7:54 | 6 | 2 | ALIVE | A | 133 | |
| PV2 | 7:54 | 8:00 | 6 | 2 | ALIVE | A | 146 | |
| PV3 | 7:49 | 7:53 | 4 | 2 | ALIVE | A | 155 | |
| PV4 | 7:40 | 7:47 | 7 | 2 | ALIVE | A | 198 | |
| PV5 | 7:43 | 7:47 | 4 | 2 | ALIVE | A | 132 | |
| PV6 | 8:00 | 8:04 | 4 | 2 | ALIVE | A | 135 | |
| PV7 | 8:05 | 8:11 | 6 | 2 | ALIVE | A | 131 | |
| PV8 | 8:03 | 8:25 | 22 | 2 | ALIVE | A | 132 | |
| PV9 | 8:12 | 8:23 | 11 | 2 | ALIVE | A | 149 | |
| PW0 | 7:56 | 8:02 | 6 | 2 | ALIVE | A | 190 | |
| PW1 | 8:26 | 8:48 | 22 | 2 | ALIVE | A | 191 | |
| PW2 | 8:21 | 8:31 | 10 | 2 | ALIVE | A | 205 | |
| PW3 | 8:25 | 8:34 | 9 | 2 | ALIVE | A | 136 | |
| PW4 | 8:32 | 8:36 | 4 | 2 | ALIVE | A | 135 | |
| PW5 | 8:35 | 8:49 | 14 | 2 | ALIVE | A | 135 | |
| PW6 | 9:10 | 9:14 | 4 | 2 | ALIVE | A | 192 | |
| PW7 | 9:33 | 9:39 | 6 | 2 | ALIVE | A | 196 | |
| PW8 | 9:13 | 9:19 | 6 | 2 | ALIVE | A | 197 | |
| PW9 | 9:15 | 9:21 | 6 | 2 | ALIVE | A | 174 | |
| PX0 | 9:24 | 9:32 | 8 | 2 | ALIVE | A | 158 | |
| PX1 | 9:28 | 9:36 | 8 | 2 | ALIVE | A | 187 | |
| PX2 | 9:09 | 9:19 | 10 | 2 | ALIVE | A | 134 | |
| PX3 | 9:40 | 9:43 | 3 | 2 | ALIVE | A | 137 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PX4 | 9:46 | 9:50 | 4 | 2 | ALIVE | A | 180 |
| PX5 | 9:41 | 9:45 | 4 | 2 | ALIVE | A | 195 |
| PX6 | 9:08 | 9:13 | 5 | 2 | ALIVE | A | 180 |
| PX7 | 9:44 | 9:47 | 3 | 2 | ALIVE | A | 196 |
| PX8 | 9:44 | 9:59 | 15 | 2 | ALIVE | A | 186 |
| PX9 | 9:39 | 9:43 | 4 | 2 | ALIVE | A | 117 |
| PY0 | 9:24 | 9:27 | 3 | 2 | ALIVE | A | 166 |
| PY1 | 10:20 | 10:24 | 4 | 2 | ALIVE | A | 141 |
| PY2 | 10:17 | 10:26 | 9 | 2 | ALIVE | A | 180 |
| PY3 | 10:15 | 10:19 | 4 | 2 | ALIVE | A | 136 |
| PY4 | 10:12 | 10:16 | 4 | 2 | ALIVE | A | 138 |
| PY5 | 10:11 | 10:14 | 3 | 2 | ALIVE | A | 186 |
| PY6 | 10:27 | 10:34 | 7 | 2 | ALIVE | A | 148 |
| PY7 | 10:25 | 10:35 | 10 | 2 | ALIVE | A | 131 |
| PY8 | 10:37 | 10:39 | 2 | 2 | ALIVE | A | 140 |
| PY9 | 10:36 | 10:56 | 20 | 2 | ALIVE | A | 186 |
| PZ0 | 10:40 | 10:50 | 10 | 2 | ALIVE | A | 158 |
| PZ1 | 10:57 | 11:05 | 8 | 2 | ALIVE | A | 195 |
| PZ2 | 10:05 | 11:27 | 82 | 2 | ALIVE | A | 193 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PZ3 | 10:15 | 10:54 | 39 | 2 | ALIVE | A | 133 | |
| PZ4 | 10:43 | 11:03 | 20 | 2 | ALIVE | A | 140 | |
| PZ5 | 11:03 | 11:08 | 5 | 2 | ALIVE | A | 130 | |
| PZ6 | 11:22 | 11:27 | 5 | 2 | ALIVE | A | 185 | |
| PZ7 | 11:12 | 11:20 | 8 | 2 | ALIVE | A | 200 | |
| PZ8 | 11:20 | 11:31 | 11 | 2 | ALIVE | A | 180 | |
| PZ9 | 11:09 | 11:12 | 3 | 2 | ALIVE | A | 205 | |
| SM0 | 11:27 | 11:30 | 3 | 2 | ALIVE | A | 146 | |
| SM1 | 11:32 | 11:38 | 6 | 2 | ALIVE | A | 146 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SM2 | 11:34 | 12:14 | 40 | 2 | ALIVE | A | 177 |
| SM3 | 11:37 | 11:43 | 6 | 2 | ALIVE | A | 198 |
| SM4 | 11:32 | 11:34 | 2 | 2 | ALIVE | A | 154 |
| SM5 | 11:31 | 11:34 | 3 | 2 | ALIVE | A | 135 |
| SM6 | 12:16 | 12:19 | 3 | 2 | ALIVE | A | 133 |
| SM7 | 12:37 | 12:43 | 6 | 2 | ALIVE | A | 179 |
| SM8 | 12:24 | 12:39 | 15 | 2 | ALIVE | A | 195 |
| SM9 | 12:40 | 12:44 | 4 | 2 | ALIVE | A | 186 |
| SN0 | 12:22 | 12:23 | 1 | 2 | ALIVE | A | 190 |
| SN1 | 12:28 | 12:29 | 1 | 2 | ALIVE | A | 141 |
| SN2 | 12:35 | 12:38 | 3 | 2 | ALIVE | A | 135 |
| SN3 | 12:19 | 12:21 | 2 | 2 | ALIVE | A | 135 |
| SN4 | 12:15 | 12:19 | 4 | 2 | ALIVE | A | 154 |
| SN5 | 12:20 | 12:24 | 4 | 2 | ALIVE | A | 154 |
| SN6 | 12:41 | 13:01 | 20 | 2 | ALIVE | A | 160 |
| SN7 | 12:32 | 12:36 | 4 | 2 | ALIVE | A | 139 |
| SN8 | 12:30 | 12:35 | 5 | 2 | ALIVE | A | 133 |
| SN9 | 12:23 | 12:27 | 4 | 2 | ALIVE | A | 137 |
| SP0 | 12:25 | 12:31 | 6 | 2 | ALIVE | A | 131 |
| SP1 | 13:15 | 13:18 | 3 | 2 | ALIVE | A | 188 |
| SP2 | 13:18 | 13:25 | 7 | 2 | ALIVE | A | 192 |
| SP3 | 13:12 | 13:15 | 3 | 2 | ALIVE | A | 146 |
| SP4 | 13:13 | 13:31 | 18 | 2 | ALIVE | A | 157 |
| SP5 | 13:26 | 13:29 | 3 | 2 | ALIVE | A | 139 |
| SP6 | 13:21 | 13:25 | 4 | 2 | ALIVE | A | 137 |
| SP7 | 13:29 | 13:35 | 6 | 2 | ALIVE | A | 135 |
| SP8 | 13:32 | 13:37 | 5 | 2 | ALIVE | A | 132 |
| SP9 | 13:25 | 13:31 | 6 | 2 | ALIVE | A | 131 |
| SR0 | 13:41 | 13:46 | 5 | 2 | ALIVE | A | 191 |
| SR1 | 13:37 | 13:41 | 4 | 2 | ALIVE | A | 188 |
| SR2 | 13:35 | 13:39 | 4 | 2 | ALIVE | A | 194 |
| SR3 | 13:36 | 13:42 | 6 | 2 | ALIVE | A | 168 |
| SR4 | 13:39 | 13:45 | 6 | 2 | ALIVE | A | 190 |
| SR5 | 13:46 | 13:52 | 6 | 2 | ALIVE | A | 194 |
| SR6 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 156 |
| SR7 | 13:44 | 13:50 | 6 | 2 | ALIVE | A | 131 |
| SR8 | 13:52 | 13:53 | 1 | 2 | ALIVE | A | 151 |
| SR9 | 13:45 | 13:51 | 6 | 2 | ALIVE | A | 140 |
| SS0 | 14:12 | 14:16 | 4 | 2 | ALIVE | A | 180 |
| SS1 | 14:07 | 14:10 | 3 | 2 | ALIVE | A | 164 |
| SS2 | 14:08 | 14:10 | 2 | 2 | ALIVE | A | 196 |
| SS3 | 14:08 | 14:12 | 4 | 2 | ALIVE | A | 188 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SS4 | 14:11 | 14:14 | 3 | 2 | ALIVE | A | 163 | |
| SS5 | 14:15 | 14:17 | 2 | 2 | ALIVE | A | 185 | |
| SS6 | 14:17 | 14:26 | 9 | 2 | ALIVE | A | 173 | |
| SS7 | 14:25 | 14:28 | 3 | 2 | ALIVE | A | 193 | |
| SS8 | 14:18 | 14:24 | 6 | 2 | ALIVE | A | 162 | |
| SS9 | 14:17 | 14:32 | 15 | 2 | ALIVE | A | 134 | |
| ST0 | 14:26 | 14:29 | 3 | 2 | ALIVE | A | 144 | |
| ST1 | 14:29 | 14:42 | 13 | 2 | ALIVE | A | 133 | |
| ST2 | 14:39 | 14:46 | 7 | 2 | ALIVE | A | 146 | |
| ST3 | 14:31 | 14:42 | 11 | 2 | ALIVE | A | 136 | |
| ST4 | 13:11 | 13:17 | 6 | 2 | ALIVE | A | 162 | |
| ST5 | 8:53 | 8:57 | 4 | 2 | ALIVE | A | 191 | |
| ST6 | 8:47 | 8:52 | 5 | 2 | ALIVE | A | 195 | |
| ST7 | 8:39 | 8:46 | 7 | 2 | ALIVE | A | 198 | |
| ST8 | 8:52 | 9:00 | 8 | 2 | ALIVE | A | 160 | |
| ST9 | 8:57 | 9:00 | 3 | 2 | ALIVE | A | 159 | |
| SU0 | 14:33 | 14:38 | 5 | 2 | ALIVE | A | 146 | |
| SU1 | 14:55 | 15:01 | 6 | 2 | ALIVE | A | 178 | |
| SU2 | 14:48 | 14:56 | 8 | 2 | ALIVE | H | 180 | |
| SU3 | 14:52 | 14:55 | 3 | 2 | ALIVE | A | 190 | |
| SU4 | 14:43 | 14:54 | 11 | 2 | ALIVE | A | 190 | |
| SU5 | 14:45 | 14:51 | 6 | 2 | ALIVE | A | 181 | |
| 20 December 1999 - Testlot 35 : PL=3, Unit 6, Mid - Water temp=46.0 C | | | | | | | | |
| DA0 | 10:43 | 11:02 | 19 | 2 | ALIVE | A | 132 | |
| DA1 | 10:54 | . | . | 0 | DEAD | Z | 170 | |
| DA2 | 11:04 | 11:26 | 22 | 2 | ALIVE | A | 199 | |
| DA3 | 11:03 | 11:05 | 2 | 2 | ALIVE | A | 185 | |
| DA4 | 10:51 | 10:58 | 7 | 2 | ALIVE | A | 175 | |
| DA5 | 10:59 | 11:03 | 4 | 2 | ALIVE | A | 147 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DA6 | 11:36 | 11:42 | 6 | 2 | ALIVE | A | 150 |
| DA7 | 11:43 | 11:48 | 5 | 2 | ALIVE | A | 190 |
| DA8 | 11:44 | 15:44 | 240 | 2 | ALIVE | A | 178 |
| DA9 | 11:37 | 11:42 | 5 | 2 | ALIVE | A | 177 |
| DB0 | 11:38 | 11:42 | 4 | 2 | ALIVE | A | 188 |
| DB1 | 11:49 | 12:08 | 19 | 2 | ALIVE | A | 140 |
| DB2 | 12:11 | 12:20 | 9 | 2 | ALIVE | A | 183 |
| DB3 | 11:47 | 12:04 | 17 | 2 | ALIVE | A | 185 |
| DB4 | 12:10 | 12:15 | 5 | 2 | ALIVE | A | 192 |
| DB5 | 12:07 | 12:11 | 4 | 2 | ALIVE | A | 130 |
| DB6 | 12:24 | 12:26 | 2 | 2 | ALIVE | A | 190 |
| DB7 | 12:23 | 12:31 | 8 | 2 | ALIVE | A | 186 |
| DB8 | 12:22 | 12:29 | 7 | 2 | ALIVE | A | 184 |
| DB9 | 12:15 | 12:21 | 6 | 2 | ALIVE | A | 132 |
| DC0 | 12:21 | 12:23 | 2 | 2 | ALIVE | A | 145 |
| DC1 | 12:30 | 12:32 | 2 | 2 | ALIVE | A | 198 |
| DC2 | 12:33 | 12:39 | 6 | 2 | ALIVE | A | 131 |
| DC3 | 12:32 | 12:42 | 10 | 2 | ALIVE | A | 133 |
| DC5 | 12:31 | 12:33 | 2 | 2 | ALIVE | A | 170 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| DC6 | 12:45 | 12:47 | 2 | 2 | ALIVE | A | 201 | |
| DC7 | 12:40 | 12:44 | 4 | 2 | ALIVE | A | 194 | |
| DC8 | 12:43 | 12:49 | 6 | 2 | ALIVE | A | 183 | |
| DC9 | 12:36 | 12:43 | 7 | 2 | ALIVE | A | 204 | |
| DD0 | 12:44 | 13:00 | 16 | 2 | ALIVE | A | 133 | |
| DD1 | 13:36 | 13:38 | 2 | 2 | ALIVE | A | 164 | |
| DD2 | 13:38 | 13:39 | 1 | 2 | ALIVE | A | 174 | |
| DD3 | 13:08 | 13:11 | 3 | 2 | ALIVE | A | 203 | |
| DD4 | 13:07 | 13:12 | 5 | 2 | ALIVE | A | 200 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DD5 | 13:42 | 14:00 | 18 | 2 | ALIVE | A | 146 |
| DD6 | 13:13 | 13:15 | 2 | 2 | ALIVE | A | 131 |
| DD7 | 13:08 | 13:18 | 10 | 2 | ALIVE | A | 199 |
| DD8 | 13:30 | 13:45 | 15 | 2 | ALIVE | A | 169 |
| DD9 | 13:40 | 13:42 | 2 | 2 | ALIVE | A | 190 |
| DE0 | 13:16 | 13:20 | 4 | 2 | ALIVE | A | 154 |
| DE1 | 13:26 | 13:30 | 4 | 2 | ALIVE | A | 148 |
| DE2 | 13:12 | 13:15 | 3 | 2 | ALIVE | A | 172 |
| DE3 | 13:23 | 13:28 | 5 | 2 | ALIVE | A | 143 |
| DE4 | 13:17 | 13:20 | 3 | 2 | ALIVE | A | 143 |
| DE5 | 13:35 | 13:37 | 2 | 2 | ALIVE | A | 145 |
| DE6 | 14:09 | 14:12 | 3 | 2 | ALIVE | A | 165 |
| DE7 | 14:14 | 14:19 | 5 | 2 | ALIVE | A | 141 |
| DE8 | 14:11 | 14:14 | 3 | 2 | ALIVE | A | 150 |
| DE9 | 12:27 | 12:30 | 3 | 2 | ALIVE | A | 162 |
| DF0 | 14:24 | 15:40 | 76 | 2 | ALIVE | H | 177 |
| DF1 | 14:19 | 14:23 | 4 | 2 | ALIVE | A | 137 |
| DF2 | 14:39 | 14:41 | 2 | 2 | ALIVE | A | 148 |
| DF3 | 14:41 | 14:49 | 8 | 2 | ALIVE | A | 185 |
| DF4 | 14:31 | 14:37 | 6 | 2 | ALIVE | A | 177 |
| DF5 | 14:34 | 14:38 | 4 | 2 | ALIVE | A | 191 |
| DF6 | 14:38 | 14:43 | 5 | 2 | ALIVE | A | 183 |
| DF7 | 14:49 | 14:55 | 6 | 2 | ALIVE | A | 180 |
| DF8 | 14:55 | 15:00 | 5 | 2 | ALIVE | A | 188 |
| DF9 | 14:44 | 14:46 | 2 | 2 | ALIVE | A | 138 |
| DH0 | 14:51 | 14:54 | 3 | 2 | ALIVE | A | 177 |
| DH1 | 14:47 | 14:50 | 3 | 2 | ALIVE | A | 147 |
| DH2 | 15:01 | 15:05 | 4 | 2 | ALIVE | A | 141 |
| DH3 | 15:01 | 15:07 | 6 | 2 | ALIVE | A | 177 |
| DH4 | 15:05 | 15:08 | 3 | 2 | ALIVE | A | 202 |
| DH5 | 15:08 | 15:12 | 4 | 2 | ALIVE | A | 195 |
| DH6 | 14:57 | 15:00 | 3 | 2 | ALIVE | A | 152 |
| SU6 | 7:47 | 7:48 | 1 | 2 | ALIVE | A | 134 |
| SU7 | 7:49 | 7:54 | 5 | 2 | ALIVE | A | 167 |
| SU8 | 7:44 | 7:47 | 3 | 2 | ALIVE | A | 137 |
| SU9 | 7:48 | 7:52 | 4 | 2 | ALIVE | A | 153 |
| SV0 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 133 |
| SV1 | 7:52 | 8:01 | 9 | 2 | ALIVE | A | 164 |
| SV2 | 7:53 | 7:57 | 4 | 2 | ALIVE | A | 132 |
| SV3 | 7:41 | 7:48 | 7 | 2 | ALIVE | A | 141 |
| SV4 | 7:54 | 8:28 | 34 | 2 | ALIVE | A | 187 |
| SV5 | 7:57 | 8:00 | 3 | 2 | ALIVE | A | 188 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SV6 | 7:39 | 7:43 | 4 | 2 | ALIVE | A | 148 | |
| SV7 | 7:41 | 7:45 | 4 | 2 | ALIVE | A | 166 | |
| SV8 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 205 | |
| SV9 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 132 | |
| SW0 | 8:01 | 8:06 | 5 | 2 | ALIVE | A | 147 | |
| SW1 | 8:29 | 8:46 | 17 | 2 | ALIVE | A | 160 | |
| SW2 | 8:31 | 8:39 | 8 | 2 | ALIVE | A | 139 | |
| SW3 | 8:22 | 8:28 | 6 | 2 | ALIVE | A | 147 | |
| SW4 | 8:23 | 8:46 | 23 | 2 | ALIVE | A | 146 | |
| SW5 | 8:40 | 8:46 | 6 | 2 | ALIVE | A | 191 | |
| SW6 | 8:47 | 8:49 | 2 | 2 | ALIVE | A | 113 | |
| SW7 | 8:53 | 8:58 | 5 | 2 | ALIVE | A | 188 | |
| SW8 | 8:51 | 8:56 | 5 | 2 | ALIVE | A | 172 | |
| SW9 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 156 | |
| SX0 | 8:50 | 8:52 | 2 | 2 | ALIVE | A | 191 | |
| SX1 | 9:04 | 9:10 | 6 | 2 | ALIVE | A | 192 | |
| SX2 | 9:01 | 9:05 | 4 | 2 | ALIVE | A | 157 | |
| SX3 | 8:59 | 9:04 | 5 | 2 | ALIVE | A | 181 | |
| SX4 | 8:55 | 9:03 | 8 | 2 | ALIVE | A | 135 | |
| SX5 | 8:57 | 9:01 | 4 | 2 | ALIVE | A | 131 | |
| SX6 | 9:16 | 9:25 | 9 | 1 | DEAD | B | 191 | |
| SX7 | 9:10 | 9:22 | 12 | 2 | ALIVE | A | 181 | |
| SX8 | 9:12 | 9:15 | 3 | 1 | ALIVE | B | 138 | |
| SX9 | 9:05 | 9:12 | 7 | 2 | ALIVE | A | 152 | |
| SY0 | 9:08 | 9:15 | 7 | 2 | ALIVE | H | 190 | |
| SY1 | 9:55 | 10:03 | 8 | 2 | ALIVE | A | 138 | |
| SY2 | 9:53 | 10:02 | 9 | 2 | ALIVE | A | 196 | |
| SY3 | 10:04 | 10:12 | 8 | 2 | ALIVE | A | 152 | |
| SY4 | 9:51 | . | . | 0 | DEAD | Z | 187 | |
| SY5 | 9:50 | 9:55 | 5 | 2 | ALIVE | A | 132 | |
| SY6 | 10:20 | 10:25 | 5 | 2 | ALIVE | A | 163 | |
| SY7 | 10:11 | 10:16 | 5 | 2 | ALIVE | A | 145 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SY8 | 10:16 | 10:22 | 6 | 2 | ALIVE | A | 145 |
| SY9 | 10:13 | 10:19 | 6 | 2 | ALIVE | A | 135 |
| SZ0 | 10:23 | 10:28 | 5 | 2 | ALIVE | A | 205 |
| SZ1 | 10:25 | 10:28 | 3 | 2 | ALIVE | A | 135 |
| SZ2 | 10:39 | 10:45 | 6 | 2 | ALIVE | A | 179 |
| SZ3 | 10:29 | 10:43 | 14 | 2 | ALIVE | A | 136 |
| SZ4 | 10:35 | 10:46 | 11 | 2 | ALIVE | A | 200 |
| SZ5 | 10:29 | 10:32 | 3 | 2 | ALIVE | A | 145 |
| SZ6 | 10:31 | 10:38 | 7 | 2 | ALIVE | A | 134 |
| SZ7 | 10:46 | 10:49 | 3 | 2 | ALIVE | A | 188 |
| SZ8 | 10:49 | 10:53 | 4 | 2 | ALIVE | A | 197 |
| SZ9 | 10:45 | 10:49 | 4 | 2 | ALIVE | A | 193 |

21 December 1999 - Testlot 36 : PL=2, Unit 6, Hub - Water temp=46.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DH7 | 7:36 | 7:42 | 6 | 2 | ALIVE | A | 143 |
| DH8 | 7:35 | 7:38 | 3 | 2 | ALIVE | A | 153 |
| DH9 | 7:42 | 7:47 | 5 | 2 | ALIVE | A | 183 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| DJ0 | 7:34 | 7:45 | 11 | 2 | ALIVE | A | 134 | |
| DJ1 | 7:37 | 7:44 | 7 | 2 | ALIVE | A | 135 | |
| DJ2 | 7:46 | 7:56 | 10 | 2 | ALIVE | A | 138 | |
| DJ3 | 7:52 | 7:54 | 2 | 2 | ALIVE | A | 163 | |
| DJ4 | 7:45 | 7:48 | 3 | 2 | ALIVE | A | 170 | |
| DJ5 | 7:51 | 7:55 | 4 | 2 | ALIVE | A | 205 | |
| DJ6 | 7:48 | 7:51 | 3 | 2 | ALIVE | A | 137 | |
| DJ7 | 8:01 | 8:06 | 5 | 2 | ALIVE | A | 141 | |
| DJ8 | 7:57 | 8:00 | 3 | 2 | ALIVE | A | 138 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DJ9 | 8:03 | 8:06 | 3 | 2 | ALIVE | A | 187 |
| DK0 | 7:56 | 8:02 | 6 | 2 | ALIVE | A | 185 |
| DK1 | 7:57 | 8:02 | 5 | 2 | ALIVE | A | 183 |
| DK2 | 8:08 | 8:14 | 6 | 1 | DEAD | HJ | 139 |
| DK3 | 8:05 | 8:08 | 3 | 2 | ALIVE | A | 143 |
| DK4 | 8:07 | 8:14 | 7 | 2 | ALIVE | A | 140 |
| DK5 | 8:16 | 8:27 | 11 | 2 | ALIVE | A | 153 |
| DK6 | 8:10 | 8:19 | 9 | 2 | ALIVE | A | 172 |
| DK7 | 9:31 | 9:35 | 4 | 2 | ALIVE | A | 187 |
| DK8 | 9:22 | 9:28 | 6 | 2 | ALIVE | A | 171 |
| DK9 | 9:29 | 9:31 | 2 | 2 | ALIVE | A | 180 |
| DL1 | 9:23 | 9:30 | 7 | 2 | ALIVE | A | 184 |
| DL2 | 9:21 | 9:30 | 9 | 2 | ALIVE | A | 183 |
| DL3 | 9:34 | 9:38 | 4 | 2 | ALIVE | A | 192 |
| DL4 | 9:39 | 9:51 | 12 | 2 | ALIVE | A | 175 |
| DL5 | 9:37 | 9:40 | 3 | 2 | ALIVE | A | 161 |
| DL6 | 9:34 | 9:36 | 2 | 2 | ALIVE | A | 135 |
| DL7 | 9:51 | 10:02 | 11 | 2 | ALIVE | A | 186 |
| DL8 | 9:42 | 9:45 | 3 | 2 | ALIVE | A | 132 |
| DL9 | 9:42 | 9:49 | 7 | 2 | ALIVE | A | 153 |
| DM0 | 9:49 | 9:53 | 4 | 2 | ALIVE | A | 191 |
| DM1 | 9:45 | 9:48 | 3 | 2 | ALIVE | A | 140 |
| DM2 | 9:54 | 10:00 | 6 | 2 | ALIVE | A | 187 |
| DM3 | 10:03 | 10:10 | 7 | 2 | ALIVE | A | 169 |
| DM4 | 9:54 | 10:03 | 9 | 2 | ALIVE | A | 205 |
| DM5 | 10:04 | 10:13 | 9 | 2 | ALIVE | A | 188 |
| DM6 | 10:01 | 10:08 | 7 | 2 | ALIVE | A | 188 |
| DM7 | 9:02 | 9:05 | 3 | 2 | ALIVE | A | 194 |
| DM8 | 8:29 | 8:49 | 20 | 2 | ALIVE | A | 192 |
| DM9 | 9:02 | 9:12 | 10 | 2 | ALIVE | A | 183 |
| DN0 | 8:22 | 8:24 | 2 | 2 | ALIVE | A | 161 |
| DN1 | 8:25 | . | . | 0 | UNKNOWN | X | 147 |
| DN2 | 10:11 | 10:14 | 3 | 2 | ALIVE | A | 182 |
| DN3 | 10:16 | 10:25 | 9 | 2 | ALIVE | A | 151 |
| DN4 | 10:13 | 10:18 | 5 | 2 | ALIVE | A | 132 |
| DN5 | 10:08 | 10:13 | 5 | 2 | ALIVE | A | 151 |
| DN6 | 10:14 | 10:31 | 17 | 2 | ALIVE | A | 200 |
| DN7 | 10:19 | 10:28 | 9 | 2 | ALIVE | A | 133 |
| DN8 | 10:26 | 10:30 | 4 | 2 | ALIVE | A | 190 |
| DN9 | 10:31 | 10:34 | 3 | 2 | ALIVE | A | 186 |
| DP0 | 10:29 | 10:32 | 3 | 2 | ALIVE | A | 201 |
| DP1 | 10:32 | 10:40 | 8 | 2 | ALIVE | A | 192 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| DP2 | 10:49 | 10:57 | 8 | 2 | ALIVE | A | 198 | |
| DP3 | 11:04 | 11:07 | 3 | 2 | ALIVE | A | 180 | |
| DP4 | 10:52 | 10:55 | 3 | 2 | ALIVE | H | 181 | |
| DP5 | 10:57 | 11:02 | 5 | 2 | ALIVE | A | 133 | |
| DP6 | 10:58 | 11:04 | 6 | 2 | ALIVE | A | 191 | |
| DP7 | 11:08 | 11:11 | 3 | 2 | ALIVE | A | 134 | |
| DP8 | 11:12 | 11:15 | 3 | 2 | ALIVE | A | 145 | |
| DP9 | 11:09 | 11:14 | 5 | 2 | ALIVE | A | 136 | |
| DR0 | 11:15 | 11:31 | 16 | 2 | ALIVE | A | 204 | |
| DR1 | 11:06 | 11:08 | 2 | 2 | ALIVE | A | 134 | |
| DR2 | 11:22 | 11:25 | 3 | 2 | ALIVE | A | 132 | |
| DR3 | 11:17 | 11:23 | 6 | 2 | ALIVE | A | 168 | |
| DR4 | 11:28 | 11:36 | 8 | 2 | ALIVE | A | 182 | |
| DR5 | 11:23 | 11:30 | 7 | 2 | ALIVE | A | 170 | |
| DR6 | 11:26 | 11:29 | 3 | 2 | ALIVE | A | 195 | |
| DR7 | 11:46 | 11:48 | 2 | 2 | ALIVE | A | 193 | |
| DR8 | 12:05 | 12:08 | 3 | 2 | ALIVE | A | 183 | |
| DR9 | 12:24 | 12:27 | 3 | 2 | ALIVE | A | 185 | |
| DS0 | 11:54 | 12:09 | 15 | 2 | ALIVE | A | 201 | |
| DS1 | 12:14 | 12:21 | 7 | 2 | ALIVE | A | 148 | |
| DS2 | 11:54 | 11:59 | 5 | 2 | ALIVE | A | 150 | |
| DS3 | 12:09 | 12:16 | 7 | 2 | ALIVE | A | 137 | |
| DS4 | 11:47 | 11:48 | 1 | 2 | ALIVE | A | 134 | |
| DS5 | 12:29 | 12:35 | 6 | 2 | ALIVE | A | 186 | |
| DS6 | 11:50 | 11:53 | 3 | 2 | ALIVE | A | 133 | |
| DS7 | 12:17 | 12:57 | 40 | 2 | ALIVE | A | 194 | |
| DS8 | 12:00 | 12:08 | 8 | 2 | ALIVE | A | 191 | |
| DS9 | 11:49 | 11:53 | 4 | 2 | ALIVE | A | 190 | |
| DT0 | 12:22 | 12:24 | 2 | 2 | ALIVE | A | 163 | |
| DT1 | 12:10 | 12:14 | 4 | 2 | ALIVE | A | 138 | |
| DT2 | 12:36 | 12:53 | 17 | 2 | ALIVE | A | 199 | |
| DT3 | 12:38 | 12:43 | 5 | 2 | ALIVE | A | 203 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DT4 | 12:41 | 12:44 | 3 | 2 | ALIVE | A | 196 |
| DT5 | 12:48 | 12:55 | 7 | 2 | ALIVE | A | 191 |
| DT6 | 12:57 | 13:00 | 3 | 2 | ALIVE | A | 156 |
| DT7 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 150 |
| DT8 | 12:44 | 12:46 | 2 | 2 | ALIVE | A | 172 |
| DT9 | 9:36 | 9:40 | 4 | 2 | ALIVE | A | 192 |
| DU0 | 12:45 | 12:52 | 7 | 2 | ALIVE | A | 188 |
| DU1 | 12:57 | 13:00 | 3 | 2 | ALIVE | A | 190 |
| DU2 | 13:01 | 13:31 | 30 | 2 | ALIVE | A | 192 |
| DU3 | 12:54 | 12:57 | 3 | 2 | ALIVE | A | 158 |
| DU4 | 12:59 | 13:01 | 2 | 2 | ALIVE | A | 165 |
| DU5 | 12:35 | 12:37 | 2 | 2 | ALIVE | A | 182 |
| DU6 | 12:32 | 12:34 | 2 | 2 | ALIVE | A | 150 |
| DU7 | 12:37 | 12:40 | 3 | 2 | ALIVE | A | 138 |
| DU8 | 13:43 | 13:47 | 4 | 2 | ALIVE | A | 165 |
| DU9 | 13:48 | 13:50 | 2 | 2 | ALIVE | A | 187 |
| DV0 | 13:47 | 13:52 | 5 | 2 | ALIVE | A | 190 |
| DV1 | 13:44 | 13:46 | 2 | 2 | ALIVE | A | 192 |
| DV2 | 13:43 | 13:54 | 11 | 2 | ALIVE | A | 179 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| DV3 | 13:53 | 14:01 | 8 | 2 | ALIVE | A | 160 | |
| DV4 | 13:51 | 13:56 | 5 | 2 | ALIVE | A | 193 | |
| DV5 | 13:59 | 14:08 | 9 | 2 | ALIVE | A | 201 | |
| DV6 | 13:57 | 14:00 | 3 | 2 | ALIVE | A | 178 | |
| DV7 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 194 | |
| DV8 | 14:07 | 14:10 | 3 | 2 | ALIVE | A | 131 | |
| DV9 | 14:01 | 14:06 | 5 | 2 | ALIVE | A | 160 | |
| DW0 | 14:02 | 14:04 | 2 | 2 | ALIVE | A | 188 | |
| DW1 | 14:05 | 14:10 | 5 | 2 | ALIVE | A | 202 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DW2 | 14:09 | 14:19 | 10 | 2 | ALIVE | A | 197 |
| DW3 | 14:12 | 14:18 | 6 | 2 | ALIVE | A | 144 |
| DW4 | 14:20 | 14:32 | 12 | 2 | ALIVE | A | 156 |
| DW5 | 14:15 | 14:22 | 7 | 2 | ALIVE | A | 142 |
| DW6 | 14:19 | 14:30 | 11 | 2 | ALIVE | A | 146 |
| DW7 | 14:11 | 14:14 | 3 | 2 | ALIVE | A | 148 |

22 December 1999 - Testlot 37 : PL=2, Control - Water temp=46.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DW8 | 7:47 | 7:53 | 6 | 2 | ALIVE | A | 202 |
| DW9 | 7:44 | 7:46 | 2 | 2 | ALIVE | A | 191 |
| DX0 | 7:56 | 8:00 | 4 | 2 | ALIVE | A | 198 |
| DX1 | 7:48 | 7:50 | 2 | 2 | ALIVE | A | 150 |
| DX2 | 7:40 | 7:47 | 7 | 2 | ALIVE | A | 144 |
| DX3 | 7:35 | 7:39 | 4 | 2 | ALIVE | A | 135 |
| DX4 | 7:34 | 7:37 | 3 | 2 | ALIVE | A | 185 |
| DX5 | 7:51 | 7:55 | 4 | 2 | ALIVE | A | 171 |
| DX6 | 7:38 | 7:40 | 2 | 2 | ALIVE | A | 180 |
| DX7 | 7:34 | 7:39 | 5 | 2 | ALIVE | A | 195 |
| DX8 | 7:47 | 7:55 | 8 | 2 | ALIVE | A | 197 |
| DX9 | 7:55 | 7:58 | 3 | 2 | ALIVE | A | 201 |
| DY0 | 7:39 | 7:43 | 4 | 2 | ALIVE | A | 178 |
| DY1 | 7:56 | 7:58 | 2 | 2 | ALIVE | A | 186 |
| DY2 | 7:42 | 7:46 | 4 | 2 | ALIVE | A | 138 |
| DY3 | 8:16 | 8:20 | 4 | 2 | ALIVE | A | 143 |
| DY4 | 8:17 | 8:25 | 8 | 2 | ALIVE | A | 132 |
| DY5 | 8:22 | 8:28 | 6 | 2 | ALIVE | A | 182 |
| DY6 | 8:16 | 8:20 | 4 | 2 | ALIVE | A | 187 |
| DY7 | 8:21 | 8:28 | 7 | 2 | ALIVE | A | 196 |
| DY8 | 8:31 | 8:35 | 4 | 2 | ALIVE | A | 147 |
| DY9 | 8:30 | 8:40 | 10 | 2 | ALIVE | A | 135 |
| DZ0 | 8:35 | 8:41 | 6 | 2 | ALIVE | A | 203 |
| DZ1 | 8:30 | 8:34 | 4 | 2 | ALIVE | A | 140 |
| DZ2 | 8:26 | 8:29 | 3 | 2 | ALIVE | A | 135 |
| DZ3 | 8:41 | 8:44 | 3 | 2 | ALIVE | A | 185 |
| DZ4 | 8:45 | 8:52 | 7 | 2 | ALIVE | A | 186 |
| DZ5 | 8:38 | 8:46 | 8 | 2 | ALIVE | A | 195 |
| DZ6 | 8:47 | 9:08 | 21 | 2 | ALIVE | A | 174 |
| DZ7 | 8:42 | 8:46 | 4 | 2 | ALIVE | A | 144 |
| DZ8 | 8:50 | 9:02 | 12 | 2 | ALIVE | A | 134 |
| DZ9 | 9:02 | 9:10 | 8 | 2 | ALIVE | A | 143 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NA0 | 9:04 | 9:07 | 3 | 2 | ALIVE | A | 142 | |
| NA1 | 9:01 | 9:03 | 2 | 2 | ALIVE | A | 179 | |
| NA2 | 8:52 | 8:56 | 4 | 1 | DEAD | F | 184 | |
| NA3 | 9:10 | 9:45 | 35 | 2 | ALIVE | A | 191 | |
| NA4 | 9:15 | 9:18 | 3 | 2 | ALIVE | A | 190 | |
| NA5 | 9:09 | 9:12 | 3 | 2 | ALIVE | A | 187 | |
| NA6 | 9:13 | 9:21 | 8 | 2 | ALIVE | A | 146 | |
| NA7 | 9:10 | 9:14 | 4 | 2 | ALIVE | A | 143 | |
| NA8 | 9:59 | 10:06 | 7 | 2 | ALIVE | A | 195 | |
| NA9 | 10:12 | 10:23 | 11 | 2 | ALIVE | A | 182 | |
| NB0 | 9:49 | 9:53 | 4 | 2 | ALIVE | A | 190 | |
| NB1 | 9:45 | 9:53 | 8 | 2 | ALIVE | A | 192 | |
| NB2 | 10:27 | 10:33 | 6 | 2 | ALIVE | A | 203 | |
| NB3 | 9:54 | 9:59 | 5 | 2 | ALIVE | A | 163 | |
| NB4 | 10:25 | 10:26 | 1 | 2 | ALIVE | A | 139 | |
| NB5 | 9:50 | . | . | 0 | UNKNOWN | X | 132 | |
| NB6 | 10:10 | 10:20 | 10 | 2 | ALIVE | A | 167 | |
| NB7 | 10:03 | 10:09 | 6 | 2 | ALIVE | A | 153 | |
| NB8 | 10:06 | 10:09 | 3 | 2 | ALIVE | A | 143 | |
| NB9 | 10:25 | 10:32 | 7 | 2 | ALIVE | A | 142 | |
| NC0 | 9:53 | 9:56 | 3 | 2 | ALIVE | A | 145 | |
| NC1 | 10:23 | 10:26 | 3 | 2 | ALIVE | A | 156 | |
| NC2 | 9:57 | 10:01 | 4 | 2 | ALIVE | A | 187 | |
| NC4 | 10:52 | 10:57 | 5 | 2 | ALIVE | A | 169 | |
| NC5 | 10:53 | 10:57 | 4 | 2 | ALIVE | A | 194 | |
| NC6 | 10:58 | 11:03 | 5 | 2 | ALIVE | A | 193 | |
| NC7 | 10:54 | 10:58 | 4 | 2 | ALIVE | A | 178 | |
| NC8 | 11:09 | 11:12 | 3 | 2 | ALIVE | A | 180 | |
| NC9 | 11:07 | 11:10 | 3 | 2 | ALIVE | A | 187 | |
| ND0 | 11:05 | 11:08 | 3 | 2 | ALIVE | A | 188 | |
| ND1 | 11:00 | 11:03 | 3 | 2 | ALIVE | A | 203 | |
| ND2 | 11:10 | 11:13 | 3 | 2 | ALIVE | A | 201 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ND3 | 11:14 | 11:17 | 3 | 2 | ALIVE | A | 143 |
| ND4 | 11:22 | 11:29 | 7 | 2 | ALIVE | A | 137 |
| ND5 | 11:18 | 11:23 | 5 | 2 | ALIVE | A | 132 |
| ND6 | 11:15 | 11:19 | 4 | 2 | ALIVE | A | 179 |
| ND7 | 11:20 | 11:24 | 4 | 2 | ALIVE | A | 188 |
| ND8 | 11:33 | 11:35 | 2 | 2 | ALIVE | A | 156 |
| ND9 | 11:37 | 11:43 | 6 | 2 | ALIVE | A | 193 |
| NE0 | 11:34 | 11:42 | 8 | 2 | ALIVE | A | 149 |
| NE1 | 11:36 | 11:46 | 10 | 2 | ALIVE | A | 133 |
| NE2 | 11:30 | 11:35 | 5 | 2 | ALIVE | A | 147 |
| NE3 | 12:21 | 12:24 | 3 | 2 | ALIVE | A | 188 |
| NE4 | 12:05 | 12:12 | 7 | 2 | ALIVE | A | 197 |
| NE5 | 12:21 | 12:33 | 12 | 2 | ALIVE | A | 185 |
| NE6 | 12:13 | . | . | 0 | TAG & PIN | | 151 |
| NE7 | 11:52 | 11:59 | 7 | 1 | ALIVE | B | 144 |
| NE8 | 12:25 | 12:29 | 4 | 2 | ALIVE | A | 161 |
| NE9 | 12:30 | 12:35 | 5 | 2 | ALIVE | A | 134 |
| NF0 | 12:33 | 12:56 | 23 | 2 | ALIVE | A | 143 |
| NF1 | 12:37 | 12:46 | 9 | 2 | ALIVE | A | 194 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NF2 | 12:47 | 12:51 | 4 | 2 | DEAD | GE | 183 | |
| NF4 | 13:11 | 13:18 | 7 | 2 | ALIVE | A | 195 | |
| NF5 | 12:54 | 12:59 | 5 | 2 | ALIVE | A | 150 | |
| NF6 | 12:49 | 12:54 | 5 | 2 | ALIVE | A | 162 | |
| NF7 | 13:00 | 13:03 | 3 | 2 | ALIVE | A | 135 | |
| NF8 | 13:19 | 13:23 | 4 | 2 | ALIVE | A | 137 | |
| NH0 | 15:20 | 15:25 | 5 | 2 | ALIVE | A | 147 | |
| NH1 | 13:26 | 13:29 | 3 | 2 | ALIVE | A | 140 | |
| NH2 | 13:12 | 13:19 | 7 | 2 | ALIVE | A | 147 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NH4 | 13:45 | 13:47 | 2 | 2 | ALIVE | A | 195 |
| NH5 | 13:37 | 13:40 | 3 | 2 | ALIVE | A | 168 |
| NH6 | 13:41 | 13:44 | 3 | 2 | ALIVE | A | 151 |
| NH7 | 13:36 | 13:40 | 4 | 2 | ALIVE | A | 150 |
| NH8 | 14:06 | 14:18 | 12 | 2 | ALIVE | A | 193 |
| NH9 | 14:00 | 14:05 | 5 | 2 | ALIVE | A | 200 |
| NJ0 | 13:57 | 14:00 | 3 | 2 | ALIVE | A | 184 |
| NJ1 | 13:56 | . | . | 0 | TAG & PIN | | 157 |
| NJ2 | 13:55 | 14:05 | 10 | 2 | DEAD | JHE | 197 |
| NJ3 | 14:28 | 14:35 | 7 | 2 | ALIVE | A | 188 |
| NJ4 | 14:18 | 14:34 | 16 | 2 | ALIVE | A | 137 |
| NJ5 | 14:24 | 14:27 | 3 | 2 | ALIVE | A | 142 |
| NJ6 | 14:11 | 14:16 | 5 | 2 | ALIVE | H | 140 |
| NJ7 | 14:19 | 14:21 | 2 | 2 | ALIVE | A | 138 |
| NJ8 | 14:36 | 14:41 | 5 | 2 | ALIVE | A | 132 |
| NJ9 | 14:37 | 15:00 | 23 | 2 | ALIVE | A | 146 |
| NK0 | 14:50 | 14:52 | 2 | 2 | ALIVE | A | 132 |
| NK1 | 14:42 | 15:02 | 20 | 2 | ALIVE | A | 193 |
| NK2 | 14:37 | 14:49 | 12 | 2 | ALIVE | A | 190 |
| NK3 | 15:02 | 15:04 | 2 | 2 | ALIVE | A | 182 |
| NK4 | 14:53 | 14:56 | 3 | 2 | ALIVE | A | 182 |
| NK5 | 15:02 | . | . | 0 | UNKNOWN | X | 172 |
| NK6 | 15:07 | 15:17 | 10 | 2 | ALIVE | A | 163 |
| NK7 | 15:05 | 15:12 | 7 | 2 | ALIVE | A | 170 |
| NK8 | 15:33 | 15:33 | 0 | 2 | ALIVE | A | 187 |
| NK9 | 15:23 | 15:28 | 5 | 2 | ALIVE | A | 188 |
| NL0 | 15:23 | 15:31 | 8 | 2 | ALIVE | A | 136 |

5 January 2000 - Testlot 38 : PL=1, Unit 6, Hub - Water temp=42.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NL1 | 13:28 | 15:35 | 127 | 2 | ALIVE | A | 165 |
| W00 | 8:11 | 8:13 | 2 | 2 | ALIVE | A | 199 |
| W01 | 8:02 | 8:14 | 12 | 2 | ALIVE | A | 212 |
| W02 | 8:02 | 8:05 | 3 | 2 | ALIVE | A | 209 |
| W03 | 7:55 | 7:59 | 4 | 2 | ALIVE | A | 194 |
| W04 | 7:57 | 8:01 | 4 | 2 | ALIVE | A | 201 |
| W05 | 8:07 | 8:12 | 5 | 2 | ALIVE | A | 141 |
| W06 | 8:14 | 8:17 | 3 | 2 | ALIVE | A | 133 |
| W07 | 8:12 | 8:18 | 6 | 2 | ALIVE | A | 174 |
| W08 | 7:51 | 7:55 | 4 | 2 | ALIVE | A | 191 |
| W09 | 8:13 | 8:21 | 8 | 2 | ALIVE | A | 193 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| W10 | 8:16 | 8:20 | 4 | 2 | ALIVE | A | 157 | |
| W11 | 7:51 | 7:57 | 6 | 2 | ALIVE | A | 136 | |
| W12 | 7:59 | 8:06 | 7 | 2 | ALIVE | A | 141 | |
| W13 | 8:05 | 8:10 | 5 | 2 | ALIVE | A | 201 | |
| W14 | 7:52 | 7:56 | 4 | 2 | ALIVE | A | 211 | |
| W15 | 8:43 | 8:48 | 5 | 2 | ALIVE | A | 212 | |
| W16 | 8:35 | 8:43 | 8 | 2 | ALIVE | A | 146 | |
| W17 | 8:41 | 9:01 | 20 | 2 | ALIVE | A | 146 | |
| W18 | 8:35 | 8:41 | 6 | 2 | ALIVE | A | 147 | |
| W19 | 8:36 | 8:58 | 22 | 2 | ALIVE | A | 161 | |
| W20 | 9:00 | 9:04 | 4 | 2 | ALIVE | A | 141 | |
| W21 | 8:58 | 9:02 | 4 | 2 | ALIVE | A | 153 | |
| W22 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 195 | |
| W23 | 8:57 | 8:59 | 2 | 2 | ALIVE | H | 157 | |
| W24 | 8:53 | 8:58 | 5 | 2 | ALIVE | A | 154 | |
| W25 | 9:03 | 9:10 | 7 | 2 | ALIVE | A | 138 | |
| W26 | 9:07 | 9:14 | 7 | 2 | ALIVE | A | 150 | |
| W27 | 9:02 | 9:19 | 17 | 2 | ALIVE | A | 143 | |
| W28 | 9:04 | 9:07 | 3 | 2 | ALIVE | A | 150 | |
| W29 | 9:11 | 9:14 | 3 | 2 | ALIVE | A | 180 | |
| W30 | 9:15 | 9:21 | 6 | 2 | ALIVE | A | 137 | |
| W31 | 9:15 | 9:18 | 3 | 2 | ALIVE | A | 196 | |
| W32 | 9:20 | 9:24 | 4 | 2 | ALIVE | A | 185 | |
| W33 | 9:18 | 9:22 | 4 | 2 | ALIVE | H | 134 | |
| W34 | 9:22 | 9:31 | 9 | 2 | ALIVE | A | 143 | |
| W35 | 9:33 | 9:38 | 5 | 2 | ALIVE | A | 161 | |
| W36 | 9:38 | 9:43 | 5 | 2 | ALIVE | A | 164 | |
| W37 | 9:28 | 9:30 | 2 | 2 | ALIVE | A | 150 | |
| W38 | 9:31 | . | . | 0 | TAG & PIN | | 145 | |
| W39 | 9:26 | 16:00 | 394 | 2 | ALIVE | A | 180 | |
| W40 | 10:08 | 10:13 | 5 | 2 | ALIVE | A | 193 | |
| W41 | 10:03 | 10:09 | 6 | 2 | ALIVE | A | 203 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W42 | 10:02 | 10:07 | 5 | 2 | ALIVE | A | 191 |
| W43 | 9:57 | 10:02 | 5 | 2 | ALIVE | A | 146 |
| W44 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 159 |
| W45 | 10:23 | 10:36 | 13 | 2 | ALIVE | A | 187 |
| W46 | 10:19 | 10:23 | 4 | 2 | ALIVE | H | 180 |
| W47 | 10:11 | 10:19 | 8 | 2 | ALIVE | A | 204 |
| W48 | 10:15 | 10:26 | 11 | 2 | ALIVE | A | 146 |
| W49 | 10:12 | 10:29 | 17 | 2 | ALIVE | A | 202 |
| W50 | 10:36 | 10:41 | 5 | 2 | ALIVE | A | 152 |
| W51 | 10:32 | 10:42 | 10 | 2 | ALIVE | A | 159 |
| W52 | 10:41 | 10:46 | 5 | 2 | ALIVE | A | 142 |
| W53 | 10:29 | 10:51 | 22 | 2 | ALIVE | A | 139 |
| W54 | 10:26 | 10:32 | 6 | 2 | ALIVE | A | 182 |
| W55 | 10:55 | 11:12 | 17 | 2 | ALIVE | A | 140 |
| W56 | 10:51 | 11:17 | 26 | 2 | ALIVE | A | 135 |
| W57 | 10:46 | 10:53 | 7 | 2 | ALIVE | A | 198 |
| W58 | 10:43 | 10:55 | 12 | 2 | ALIVE | A | 144 |
| W59 | 10:53 | 11:16 | 23 | 2 | ALIVE | A | 145 |
| W60 | 11:16 | 11:27 | 11 | 2 | ALIVE | A | 200 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| W61 | 11:20 | 11:42 | 22 | 2 | ALIVE | A | 175 | |
| W62 | 11:16 | 11:30 | 14 | 2 | ALIVE | A | 174 | |
| W63 | 11:12 | 11:19 | 7 | 2 | ALIVE | A | 135 | |
| W64 | 11:19 | 11:37 | 18 | 2 | ALIVE | A | 152 | |
| W65 | 12:00 | 12:11 | 11 | 2 | ALIVE | A | 195 | |
| W66 | 12:01 | 12:11 | 10 | 2 | ALIVE | A | 180 | |
| W67 | 11:52 | 12:00 | 8 | 2 | ALIVE | A | 184 | |
| W68 | 11:52 | 12:00 | 8 | 2 | ALIVE | A | 133 | |
| W69 | 11:51 | 12:12 | 21 | 2 | ALIVE | A | 195 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W70 | 12:18 | 12:45 | 27 | 2 | ALIVE | A | 168 |
| W71 | 12:12 | 12:34 | 22 | 2 | ALIVE | A | 179 |
| W72 | 12:34 | 13:00 | 26 | 2 | ALIVE | A | 185 |
| W73 | 12:14 | 12:18 | 4 | 2 | ALIVE | A | 139 |
| W74 | 12:11 | 12:42 | 31 | 2 | ALIVE | A | 141 |
| W75 | 13:00 | 13:20 | 20 | 2 | ALIVE | A | 196 |
| W76 | 12:45 | 13:11 | 26 | 2 | ALIVE | A | 200 |
| W77 | 12:48 | 12:56 | 8 | 2 | ALIVE | A | 167 |
| W78 | 12:58 | 13:12 | 14 | 2 | ALIVE | A | 190 |
| W79 | 13:12 | 13:20 | 8 | 2 | ALIVE | A | 194 |
| W80 | 13:21 | 13:24 | 3 | 2 | ALIVE | A | 147 |
| W81 | 13:32 | 13:36 | 4 | 2 | ALIVE | A | 173 |
| W82 | 13:14 | 13:28 | 14 | 2 | ALIVE | A | 144 |
| W83 | 13:22 | 13:50 | 28 | 2 | ALIVE | A | 160 |
| W84 | 13:24 | 13:28 | 4 | 2 | ALIVE | A | 189 |
| W85 | 14:42 | 14:46 | 4 | 2 | ALIVE | A | 202 |
| W86 | 14:08 | 14:13 | 5 | 2 | ALIVE | A | 198 |
| W87 | 14:31 | 14:35 | 4 | 2 | ALIVE | A | 163 |
| W88 | 14:22 | 14:25 | 3 | 2 | ALIVE | A | 154 |
| W89 | 14:02 | 14:09 | 7 | 2 | ALIVE | A | 201 |
| W90 | 13:59 | . | . | 0 | DEAD | ZL | 193 |
| W91 | 14:46 | 15:05 | 19 | 2 | ALIVE | A | 188 |
| W92 | 14:47 | 14:56 | 9 | 2 | ALIVE | A | 164 |
| W93 | 14:12 | 14:16 | 4 | 2 | ALIVE | A | 135 |
| W94 | 14:35 | 14:40 | 5 | 2 | ALIVE | A | 132 |
| W95 | 13:59 | 14:20 | 21 | 2 | ALIVE | A | 167 |
| W96 | 14:39 | 14:46 | 7 | 2 | ALIVE | A | 200 |
| W97 | 14:24 | 14:30 | 6 | 2 | ALIVE | A | 194 |
| W98 | 14:56 | 15:00 | 4 | 2 | ALIVE | A | 145 |
| W99 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 196 |
| WA0 | 15:26 | 15:37 | 11 | 2 | ALIVE | A | 199 |
| WA1 | 15:16 | 15:23 | 7 | 2 | ALIVE | A | 185 |
| WA2 | 15:31 | 15:35 | 4 | 2 | ALIVE | A | 144 |
| WA3 | 15:17 | 15:37 | 20 | 2 | ALIVE | A | 154 |
| WA4 | 15:24 | 15:31 | 7 | 2 | ALIVE | A | 135 |
| WA5 | 15:43 | 15:47 | 4 | 2 | ALIVE | A | 180 |
| WA6 | 15:40 | 15:49 | 9 | 2 | ALIVE | A | 175 |
| WA7 | 15:38 | 15:42 | 4 | 2 | ALIVE | A | 200 |
| WA8 | 15:35 | 15:39 | 4 | 2 | ALIVE | A | 146 |
| WA9 | 15:37 | 15:49 | 12 | 2 | ALIVE | A | 145 |
| WB0 | 15:52 | 15:56 | 4 | 2 | ALIVE | A | 149 |
| WB1 | 15:54 | 16:02 | 8 | 2 | ALIVE | A | 201 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| WB2 | 15:48 | 15:52 | 4 | 2 | ALIVE | A | 190 | |
| WB3 | 15:54 | 15:58 | 4 | 2 | ALIVE | A | 152 | |
| WB4 | 15:49 | 15:54 | 5 | 2 | ALIVE | A | 142 | |
| WB5 | 16:06 | 16:10 | 4 | 2 | ALIVE | A | 136 | |
| WB6 | 15:58 | 16:03 | 5 | 2 | ALIVE | A | 176 | |
| WB7 | 16:02 | 16:10 | 8 | 2 | ALIVE | A | 164 | |
| WB8 | 16:04 | 16:06 | 2 | 2 | ALIVE | A | 161 | |
| WB9 | 15:57 | 16:07 | 10 | 2 | ALIVE | A | 152 | |
| 6 January 2000 - Testlot 39 : PL=3, Unit 6, Hub - Water temp=42.0 C | | | | | | | | |
| NL2 | 10:32 | 10:37 | 5 | 2 | ALIVE | A | 207 | |
| WC0 | 7:49 | 7:53 | 4 | 2 | ALIVE | A | 208 | |
| WC1 | 7:40 | 7:52 | 12 | 2 | ALIVE | A | 149 | |
| WC2 | 7:32 | 7:48 | 16 | 2 | ALIVE | A | 195 | |
| WC3 | 7:33 | 7:52 | 19 | 2 | ALIVE | A | 187 | |
| WC4 | 7:32 | 7:39 | 7 | 2 | ALIVE | A | 150 | |
| WC5 | 8:01 | 8:05 | 4 | 2 | ALIVE | A | 140 | |
| WC6 | 7:53 | 8:00 | 7 | 2 | ALIVE | A | 146 | |
| WC7 | 8:02 | 8:09 | 7 | 2 | ALIVE | A | 186 | |
| WC8 | 7:54 | 8:01 | 7 | 2 | ALIVE | A | 178 | |
| WC9 | 7:55 | 8:00 | 5 | 2 | ALIVE | A | 206 | |
| WD0 | 8:05 | 8:13 | 8 | 2 | ALIVE | A | 194 | |
| WD1 | 8:04 | 8:20 | 16 | 2 | ALIVE | A | 192 | |
| WD2 | 8:17 | 8:22 | 5 | 2 | ALIVE | A | 177 | |
| WD4 | 8:09 | 8:16 | 7 | 2 | ALIVE | A | 152 | |
| WD5 | 8:30 | 8:38 | 8 | 2 | ALIVE | A | 136 | |
| WD6 | 8:40 | 8:45 | 5 | 2 | ALIVE | A | 155 | |
| WD7 | 8:23 | 8:28 | 5 | 2 | ALIVE | A | 184 | |
| WD8 | 8:29 | 8:39 | 10 | 2 | ALIVE | A | 151 | |
| WD9 | 8:20 | 8:29 | 9 | 2 | ALIVE | A | 206 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WE0 | 8:42 | 8:50 | 8 | 2 | ALIVE | A | 199 |
| WE1 | 8:51 | 8:54 | 3 | 2 | ALIVE | A | 138 |
| WE2 | 8:51 | 8:56 | 5 | 2 | ALIVE | A | 200 |
| WE3 | 8:54 | 8:58 | 4 | 2 | ALIVE | A | 161 |
| WE4 | 8:46 | 8:53 | 7 | 2 | ALIVE | A | 155 |
| WE5 | 9:31 | 9:34 | 3 | 2 | ALIVE | A | 146 |
| WE6 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 144 |
| WE7 | 9:20 | 9:27 | 7 | 2 | ALIVE | A | 192 |
| WE8 | 9:29 | 9:31 | 2 | 2 | ALIVE | A | 202 |
| WE9 | 9:18 | 9:22 | 4 | 2 | ALIVE | A | 147 |
| WF0 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 185 |
| WF1 | 9:28 | 9:33 | 5 | 2 | ALIVE | A | 202 |
| WF2 | 9:23 | 9:25 | 2 | 2 | ALIVE | A | 153 |
| WF3 | 9:06 | 9:10 | 4 | 2 | ALIVE | A | 196 |
| WF4 | 9:28 | 9:32 | 4 | 2 | ALIVE | A | 203 |
| WF5 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 157 |
| WF6 | 9:11 | 9:19 | 8 | 2 | ALIVE | H | 148 |
| WF7 | 9:09 | 9:17 | 8 | 2 | ALIVE | A | 136 |
| WF8 | 9:21 | 9:27 | 6 | 2 | ALIVE | A | 197 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| WF9 | 9:11 | 9:21 | 10 | 2 | ALIVE | A | 204 | |
| WH0 | 9:49 | 9:53 | 4 | 2 | ALIVE | A | 137 | |
| WH1 | 9:50 | 9:56 | 6 | 2 | ALIVE | A | 151 | |
| WH2 | 9:46 | 9:48 | 2 | 2 | ALIVE | A | 146 | |
| WH3 | 9:46 | 9:49 | 3 | 2 | ALIVE | A | 147 | |
| WH4 | 9:45 | 10:08 | 23 | 2 | ALIVE | A | 205 | |
| WH5 | 9:53 | 9:57 | 4 | 2 | ALIVE | A | 203 | |
| WH6 | 10:01 | 10:08 | 7 | 2 | ALIVE | A | 180 | |
| WH7 | 10:02 | 10:06 | 4 | 2 | ALIVE | A | 155 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WH8 | 9:57 | 10:00 | 3 | 2 | ALIVE | A | 143 |
| WH9 | 9:58 | 10:01 | 3 | 1 | DEAD | FB | 142 |
| WJ0 | 10:09 | 10:17 | 8 | 2 | ALIVE | A | 193 |
| WJ1 | 10:18 | 10:28 | 10 | 2 | ALIVE | A | 184 |
| WJ2 | 10:08 | 10:17 | 9 | 2 | ALIVE | A | 197 |
| WJ3 | 10:11 | 10:21 | 10 | 2 | ALIVE | A | 151 |
| WJ4 | 10:18 | 10:20 | 2 | 2 | ALIVE | A | 206 |
| WJ5 | 10:07 | 10:11 | 4 | 2 | ALIVE | A | 195 |
| WJ6 | 10:29 | 10:33 | 4 | 2 | ALIVE | A | 180 |
| WJ7 | 10:21 | 10:25 | 4 | 2 | ALIVE | A | 205 |
| WJ8 | 10:26 | 10:31 | 5 | 2 | ALIVE | A | 190 |
| WJ9 | 10:23 | . | . | 0 | DEAD | Z | 164 |
| WK0 | 11:33 | 11:35 | 2 | 2 | ALIVE | A | 173 |
| WK1 | 11:37 | 11:42 | 5 | 2 | ALIVE | A | 158 |
| WK2 | 11:35 | 11:38 | 3 | 2 | ALIVE | A | 180 |
| WK3 | 11:30 | 11:32 | 2 | 2 | ALIVE | A | 137 |
| WK4 | 12:04 | 12:10 | 6 | 2 | ALIVE | A | 157 |
| WK5 | 11:19 | . | . | 0 | DEAD | Z | 141 |
| WK6 | 11:21 | 11:27 | 6 | 2 | ALIVE | A | 203 |
| WK7 | 11:12 | 11:40 | 28 | 2 | ALIVE | A | 204 |
| WK8 | 11:14 | 11:17 | 3 | 2 | ALIVE | A | 150 |
| WK9 | 11:47 | 12:11 | 24 | 2 | ALIVE | A | 143 |
| WL0 | 11:17 | 11:20 | 3 | 2 | ALIVE | A | 151 |
| WL1 | 11:43 | 11:46 | 3 | 2 | ALIVE | A | 150 |
| WL2 | 11:54 | 11:58 | 4 | 2 | ALIVE | A | 197 |
| WL3 | 11:27 | 11:29 | 2 | 2 | ALIVE | A | 190 |
| WL4 | 11:13 | 11:18 | 5 | 2 | ALIVE | A | 189 |
| WL5 | 10:44 | 10:46 | 2 | 2 | ALIVE | A | 155 |
| WL6 | 10:48 | 10:51 | 3 | 2 | ALIVE | A | 137 |
| WL7 | 10:54 | 10:56 | 2 | 2 | ALIVE | A | 156 |
| WL8 | 10:48 | 10:53 | 5 | 2 | ALIVE | A | 174 |
| WL9 | 10:52 | 11:02 | 10 | 2 | ALIVE | A | 195 |
| WM0 | 12:25 | 12:28 | 3 | 2 | ALIVE | A | 142 |
| WM1 | 12:36 | 12:41 | 5 | 2 | ALIVE | A | 147 |
| WM2 | 12:28 | 12:36 | 8 | 2 | ALIVE | A | 175 |
| WM3 | 12:26 | 12:35 | 9 | 2 | ALIVE | A | 157 |
| WM4 | 12:35 | 12:39 | 4 | 2 | ALIVE | A | 196 |
| WM5 | 12:42 | 12:45 | 3 | 2 | ALIVE | A | 144 |
| WM6 | 12:42 | 13:00 | 18 | 2 | ALIVE | A | 135 |
| WM7 | 12:45 | 12:50 | 5 | 2 | ALIVE | A | 205 |
| WM8 | 12:40 | 12:46 | 6 | 2 | ALIVE | A | 182 |
| WM9 | 12:47 | 12:52 | 5 | 2 | ALIVE | A | 153 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| WN0 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 187 | |
| WN1 | 12:52 | 13:01 | 9 | 2 | ALIVE | H | 195 | |
| WN2 | 13:01 | 13:06 | 5 | 2 | ALIVE | A | 147 | |
| WN3 | 12:51 | 12:53 | 2 | 2 | ALIVE | A | 159 | |
| WN4 | 12:57 | 13:02 | 5 | 2 | ALIVE | A | 206 | |
| WN5 | 13:12 | 13:17 | 5 | 2 | ALIVE | A | 191 | |
| WN6 | 13:07 | 13:12 | 5 | 2 | ALIVE | A | 140 | |
| WN7 | 13:05 | 13:09 | 4 | 1 | DEAD | EB | 201 | |
| WN8 | 13:04 | 13:11 | 7 | 2 | ALIVE | H | 145 | |
| WN9 | 13:09 | 13:12 | 3 | 2 | ALIVE | A | 150 | |
| WP0 | 13:17 | 13:22 | 5 | 2 | ALIVE | A | 161 | |
| WP1 | 13:22 | 13:34 | 12 | 2 | ALIVE | A | 194 | |
| WP2 | 13:16 | 13:23 | 7 | 2 | ALIVE | A | 196 | |
| WP3 | 13:23 | 13:53 | 30 | 2 | ALIVE | A | 154 | |
| WP4 | 13:15 | 13:21 | 6 | 2 | ALIVE | A | 193 | |
| WP5 | 13:30 | 13:35 | 5 | 2 | ALIVE | A | 207 | |
| WP6 | 13:40 | 13:48 | 8 | 2 | ALIVE | A | 186 | |
| WP7 | 13:37 | 13:59 | 22 | 2 | ALIVE | A | 185 | |
| WP8 | 13:37 | 13:40 | 3 | 1 | DEAD | FB | 149 | |
| WP9 | 13:26 | 13:28 | 2 | 2 | ALIVE | A | 151 | |
| WR0 | 13:49 | 13:51 | 2 | 2 | ALIVE | A | 150 | |
| WR1 | 13:59 | 14:05 | 6 | 2 | ALIVE | A | 192 | |
| WR2 | 13:51 | 13:57 | 6 | 2 | ALIVE | A | 146 | |
| WR3 | 13:53 | 14:03 | 10 | 2 | ALIVE | A | 150 | |
| WR4 | 13:58 | 14:00 | 2 | 2 | ALIVE | A | 135 | |
| WR5 | 14:06 | 14:08 | 2 | 2 | ALIVE | A | 196 | |
| WR6 | 14:08 | 14:19 | 11 | 2 | ALIVE | A | 147 | |
| WR7 | 14:02 | 14:05 | 3 | 2 | ALIVE | A | 159 | |
| WR8 | 14:08 | 14:18 | 10 | 2 | ALIVE | A | 136 | |
| WR9 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 154 | |

7 January 2000 - Testlot 40 : PL=3, Unit 5, Tip - Water temp= 5.5 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NL4 | 13:09 | 13:13 | 4 | 2 | ALIVE | A | 145 |
| NL5 | 13:12 | 13:16 | 4 | 2 | ALIVE | A | 145 |
| NL8 | 13:17 | 13:23 | 6 | 2 | ALIVE | A | 190 |
| NL9 | 13:32 | 14:08 | 36 | 2 | ALIVE | A | 198 |
| NM0 | 12:52 | 12:55 | 3 | 2 | ALIVE | A | 172 |
| NM1 | 13:10 | 13:12 | 2 | 2 | ALIVE | A | 202 |
| NM2 | 13:10 | 13:16 | 6 | 2 | ALIVE | A | 151 |
| NM3 | 12:57 | 13:02 | 5 | 2 | ALIVE | A | 141 |
| NM4 | 13:16 | 13:20 | 4 | 2 | ALIVE | A | 146 |
| NM5 | 13:58 | 14:03 | 5 | 2 | ALIVE | A | 187 |
| NM6 | 14:08 | 14:21 | 13 | 2 | ALIVE | A | 198 |
| NM7 | 14:03 | 14:11 | 8 | 2 | ALIVE | A | 187 |
| NM8 | 14:12 | 14:23 | 11 | 2 | ALIVE | A | 146 |
| NM9 | 14:00 | 14:27 | 27 | 2 | ALIVE | A | 199 |
| NN0 | 14:34 | 14:52 | 18 | 2 | ALIVE | A | 151 |
| NN1 | 14:30 | 14:52 | 22 | 2 | ALIVE | A | 206 |
| NN2 | 14:22 | 14:29 | 7 | 2 | ALIVE | A | 134 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NN3 | 14:24 | 14:34 | 10 | 2 | ALIVE | A | 190 | |
| NN4 | 14:28 | 14:35 | 7 | 2 | ALIVE | A | 159 | |
| NN5 | 14:52 | 15:13 | 21 | 2 | ALIVE | A | 192 | |
| NN6 | 14:51 | 14:59 | 8 | 2 | ALIVE | A | 184 | |
| NN7 | 14:46 | 14:49 | 3 | 2 | ALIVE | A | 155 | |
| NN8 | 14:41 | 14:45 | 4 | 2 | ALIVE | A | 156 | |
| NN9 | 14:36 | 14:40 | 4 | 2 | ALIVE | A | 136 | |
| NP0 | 15:12 | 15:33 | 21 | 2 | ALIVE | A | 132 | |
| NP1 | 15:00 | 15:06 | 6 | 2 | ALIVE | A | 205 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NP2 | 14:56 | 15:02 | 6 | 2 | ALIVE | A | 187 |
| NP3 | 15:05 | 15:14 | 9 | 2 | ALIVE | A | 205 |
| NP4 | 15:06 | 15:10 | 4 | 2 | ALIVE | A | 145 |
| NP5 | 16:11 | 16:17 | 6 | 2 | ALIVE | A | 140 |
| NP6 | 16:03 | 16:11 | 8 | 2 | ALIVE | A | 160 |
| NP7 | 15:58 | 16:04 | 6 | 2 | ALIVE | A | 153 |
| NP8 | 15:57 | 16:04 | 7 | 2 | ALIVE | A | 193 |
| NP9 | 16:09 | 16:14 | 5 | 2 | ALIVE | A | 180 |
| NR0 | 16:06 | 16:09 | 3 | 2 | ALIVE | A | 154 |
| NR1 | 15:43 | 15:46 | 3 | 2 | ALIVE | A | 139 |
| NR2 | 15:39 | 15:43 | 4 | 2 | ALIVE | A | 193 |
| NR3 | 15:40 | 15:43 | 3 | 2 | ALIVE | A | 131 |
| NR4 | 15:51 | 15:55 | 4 | 2 | ALIVE | A | 195 |
| NR5 | 16:05 | 16:11 | 6 | 2 | ALIVE | A | 201 |
| NR6 | 15:48 | 15:57 | 9 | 2 | ALIVE | A | 200 |
| NR7 | 15:54 | 15:57 | 3 | 2 | ALIVE | A | 142 |
| NR8 | 15:42 | 15:48 | 6 | 2 | ALIVE | A | 140 |
| NR9 | 15:46 | 15:50 | 4 | 2 | ALIVE | A | 205 |
| NZ8 | 15:18 | 15:21 | 3 | 2 | ALIVE | A | 206 |
| NZ9 | 15:02 | 15:05 | 3 | 2 | ALIVE | A | 175 |
| WS0 | 7:40 | 8:07 | 27 | 2 | ALIVE | A | 191 |
| WS1 | 7:41 | 7:44 | 3 | 2 | ALIVE | A | 203 |
| WS2 | 7:45 | 7:49 | 4 | 2 | ALIVE | A | 195 |
| WS3 | 7:41 | 7:49 | 8 | 2 | ALIVE | A | 135 |
| WS4 | 7:49 | 7:49 | 0 | 2 | ALIVE | A | 139 |
| WS5 | 8:01 | 8:05 | 4 | 2 | ALIVE | A | 144 |
| WS6 | 8:06 | 8:10 | 4 | 2 | ALIVE | A | 141 |
| WS8 | 8:04 | 8:13 | 9 | 2 | ALIVE | A | 194 |
| WS9 | 7:54 | 7:59 | 5 | 1 | DEAD | B | 139 |
| WT0 | 8:10 | 8:13 | 3 | 2 | ALIVE | A | 145 |
| WT1 | 8:21 | 8:24 | 3 | 2 | ALIVE | A | 155 |
| WT2 | 8:14 | 8:39 | 25 | 2 | ALIVE | A | 154 |
| WT3 | 8:13 | 8:32 | 19 | 2 | ALIVE | A | 138 |
| WT4 | 8:24 | 8:52 | 28 | 2 | ALIVE | A | 200 |
| WT5 | 8:48 | 8:54 | 6 | 2 | ALIVE | A | 203 |
| WT7 | 8:45 | 8:47 | 2 | 2 | ALIVE | A | 131 |
| WT9 | 8:53 | 8:55 | 2 | 2 | ALIVE | A | 195 |
| WU0 | 9:00 | 9:03 | 3 | 2 | ALIVE | A | 198 |
| WU1 | 9:03 | 9:13 | 10 | 2 | ALIVE | A | 202 |
| WU2 | 9:11 | 9:22 | 11 | 2 | ALIVE | A | 200 |
| WU3 | 9:14 | 9:32 | 18 | 2 | ALIVE | A | 146 |
| WU4 | 9:10 | 9:15 | 5 | 2 | ALIVE | A | 157 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| WU5 | 9:32 | 9:56 | 24 | 2 | ALIVE | A | 177 | |
| WU6 | 9:40 | 9:45 | 5 | 2 | ALIVE | A | 164 | |
| WU7 | 9:46 | 10:00 | 14 | 2 | ALIVE | A | 166 | |
| WU8 | 9:31 | 9:54 | 23 | 2 | ALIVE | A | 139 | |
| WU9 | 9:33 | 9:39 | 6 | 2 | ALIVE | A | 134 | |
| WV0 | 9:55 | 10:01 | 6 | 2 | ALIVE | A | 202 | |
| WV1 | 10:04 | 10:31 | 27 | 2 | ALIVE | A | 197 | |
| WV2 | 10:02 | 10:03 | 1 | 2 | ALIVE | A | 142 | |
| WV3 | 10:00 | 10:12 | 12 | 2 | ALIVE | A | 137 | |
| WV4 | 9:59 | 10:06 | 7 | 2 | ALIVE | A | 140 | |
| WV5 | 10:23 | 10:52 | 29 | 2 | ALIVE | A | 194 | |
| WV6 | 10:15 | 10:45 | 30 | 2 | ALIVE | A | 199 | |
| WV7 | 10:07 | 10:14 | 7 | 2 | ALIVE | A | 148 | |
| WV8 | 10:13 | 10:23 | 10 | 2 | ALIVE | A | 137 | |
| WV9 | 10:36 | 10:39 | 3 | 2 | ALIVE | A | 138 | |
| WW0 | 10:39 | 10:51 | 12 | 2 | ALIVE | A | 190 | |
| WW1 | 10:50 | 10:56 | 6 | 2 | ALIVE | A | 156 | |
| WW2 | 10:55 | 11:19 | 24 | 2 | ALIVE | A | 160 | |
| WW3 | 10:57 | 11:16 | 19 | 2 | ALIVE | A | 143 | |
| WW4 | 10:50 | 10:57 | 7 | 2 | ALIVE | A | 148 | |
| WW6 | 11:22 | 11:42 | 20 | 2 | ALIVE | A | 199 | |
| WW7 | 11:17 | 11:27 | 10 | 2 | ALIVE | A | 202 | |
| WW8 | 11:15 | 11:23 | 8 | 2 | ALIVE | A | 182 | |
| WW9 | 11:00 | . | . | 0 | DEAD | Z | 155 | |
| WX0 | 11:51 | 11:54 | 3 | 2 | ALIVE | A | 147 | |
| WX1 | 12:03 | 12:07 | 4 | 2 | ALIVE | A | 152 | |
| WX2 | 11:44 | 11:52 | 8 | 2 | ALIVE | A | 206 | |
| WX3 | 11:47 | 11:50 | 3 | 2 | ALIVE | A | 200 | |
| WX4 | 11:43 | 11:48 | 5 | 2 | ALIVE | A | 199 | |
| WX5 | 11:50 | 11:58 | 8 | 2 | ALIVE | A | 152 | |
| WX6 | 12:01 | 12:06 | 5 | 2 | ALIVE | A | 169 | |
| WX7 | 11:56 | 12:00 | 4 | 2 | ALIVE | A | 140 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WX8 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 134 |
| WX9 | 12:01 | 12:06 | 5 | 2 | ALIVE | A | 132 |
| WY0 | 11:53 | 11:56 | 3 | 2 | ALIVE | A | 184 |
| WY1 | 11:45 | 11:54 | 9 | 2 | ALIVE | A | 199 |
| WY2 | 12:05 | 12:08 | 3 | 2 | ALIVE | A | 195 |
| WY3 | 11:58 | 12:00 | 2 | 2 | ALIVE | A | 160 |
| WY4 | 11:56 | 12:00 | 4 | 2 | ALIVE | A | 160 |
| WY5 | 12:24 | 12:46 | 22 | 2 | ALIVE | A | 186 |
| WY6 | 12:20 | 12:27 | 7 | 2 | ALIVE | A | 195 |
| WY7 | 12:19 | 12:22 | 3 | 2 | ALIVE | A | 168 |
| WY8 | 12:19 | 12:25 | 6 | 2 | ALIVE | A | 138 |
| WY9 | 12:21 | 12:25 | 4 | 2 | ALIVE | A | 152 |
| WZ1 | 12:29 | 12:39 | 10 | 2 | ALIVE | A | 176 |
| WZ2 | 12:38 | 12:43 | 5 | 2 | ALIVE | A | 192 |
| WZ3 | 12:27 | 12:30 | 3 | 2 | ALIVE | A | 165 |
| WZ4 | 12:42 | 12:46 | 4 | 2 | ALIVE | A | 155 |
| WZ5 | 12:44 | 12:50 | 6 | 2 | ALIVE | A | 205 |
| WZ6 | 12:49 | 12:52 | 3 | 2 | ALIVE | A | 207 |
| WZ7 | 12:50 | 12:59 | 9 | 2 | ALIVE | A | 142 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| WZ8 | 12:47 | 12:52 | 5 | 2 | ALIVE | A | 140 | |
| 8 January 2000 - Testlot 41 : PL=4, Control - Water temp= 6.0 C | | | | | | | | |
| F00 | 11:50 | 11:58 | 8 | 2 | ALIVE | A | 207 | |
| F01 | 11:49 | 11:53 | 4 | 2 | ALIVE | A | 147 | |
| F02 | 11:54 | 11:56 | 2 | 2 | ALIVE | A | 145 | |
| F03 | 11:53 | 11:59 | 6 | 2 | ALIVE | A | 161 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F04 | 12:06 | 12:18 | 12 | 2 | ALIVE | A | 150 |
| F05 | 12:20 | 12:22 | 2 | 2 | ALIVE | A | 205 |
| F06 | 12:22 | 12:26 | 4 | 2 | ALIVE | A | 150 |
| F07 | 11:59 | 12:01 | 2 | 2 | ALIVE | A | 140 |
| F08 | 12:21 | 12:26 | 5 | 2 | ALIVE | A | 134 |
| F09 | 11:58 | 12:17 | 19 | 2 | ALIVE | A | 142 |
| F10 | 12:53 | 12:55 | 2 | 2 | ALIVE | A | 142 |
| F11 | 12:48 | 13:04 | 16 | 2 | ALIVE | A | 207 |
| F12 | 12:49 | 12:52 | 3 | 2 | ALIVE | A | 200 |
| F13 | 12:54 | 13:02 | 8 | 2 | ALIVE | A | 174 |
| F14 | 12:48 | 12:57 | 9 | 2 | ALIVE | A | 151 |
| F15 | 13:11 | 13:15 | 4 | 2 | ALIVE | A | 183 |
| F16 | 13:03 | 13:15 | 12 | 2 | ALIVE | A | 139 |
| F17 | 13:07 | 13:11 | 4 | 2 | ALIVE | A | 146 |
| F18 | 12:56 | 13:05 | 9 | 2 | ALIVE | A | 135 |
| F19 | 13:06 | 13:11 | 5 | 2 | ALIVE | A | 195 |
| F20 | 13:18 | 13:41 | 23 | 2 | ALIVE | A | 165 |
| F21 | 13:17 | 13:21 | 4 | 2 | ALIVE | A | 206 |
| F22 | 13:22 | 13:28 | 6 | 2 | ALIVE | A | 185 |
| F23 | 13:14 | 13:22 | 8 | 2 | ALIVE | A | 200 |
| F24 | 13:23 | 13:30 | 7 | 2 | ALIVE | A | 179 |
| F25 | 13:31 | 13:50 | 19 | 2 | ALIVE | A | 202 |
| F26 | 13:42 | 13:44 | 2 | 2 | ALIVE | A | 155 |
| F27 | 13:30 | 13:31 | 1 | 2 | ALIVE | A | 141 |
| F28 | 13:33 | 13:38 | 5 | 2 | ALIVE | A | 200 |
| F29 | 13:40 | 13:41 | 1 | 2 | ALIVE | A | 161 |
| F30 | 13:58 | 14:03 | 5 | 2 | ALIVE | A | 185 |
| F31 | 13:59 | 14:01 | 2 | 2 | ALIVE | A | 190 |
| F32 | 14:02 | 14:14 | 12 | 2 | ALIVE | A | 203 |
| F33 | 14:01 | 14:05 | 4 | 2 | ALIVE | A | 196 |
| F34 | 14:03 | 14:14 | 11 | 2 | ALIVE | A | 142 |
| F35 | 14:19 | 14:26 | 7 | 2 | ALIVE | A | 201 |
| F36 | 14:10 | 14:15 | 5 | 2 | ALIVE | A | 160 |
| F37 | 14:15 | 14:19 | 4 | 2 | ALIVE | A | 161 |
| F38 | 14:16 | 14:23 | 7 | 2 | ALIVE | A | 153 |
| F39 | 14:17 | 14:23 | 6 | 2 | ALIVE | A | 143 |
| F40 | 14:30 | 14:36 | 6 | 2 | ALIVE | A | 198 |
| F41 | 14:25 | 14:33 | 8 | 2 | ALIVE | A | 150 |
| F42 | 14:26 | 14:29 | 3 | 2 | ALIVE | A | 154 |
| F43 | 14:34 | 14:36 | 2 | 2 | ALIVE | A | 154 |
| F44 | 14:24 | 14:29 | 5 | 2 | ALIVE | A | 156 |
| F45 | 14:48 | 14:55 | 7 | 2 | ALIVE | A | 207 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| F46 | 14:44 | 14:49 | 5 | 2 | ALIVE | A | 146 | |
| F47 | 14:37 | 14:43 | 6 | 2 | ALIVE | A | 131 | |
| F48 | 14:50 | 15:52 | 62 | 2 | ALIVE | A | 143 | |
| F49 | 14:38 | 14:47 | 9 | 2 | ALIVE | A | 176 | |
| NS0 | 7:58 | 8:00 | 2 | 2 | ALIVE | A | 181 | |
| NS1 | 7:36 | 7:39 | 3 | 2 | ALIVE | A | 198 | |
| NS2 | 7:36 | 7:39 | 3 | 2 | ALIVE | A | 145 | |
| NS3 | 8:04 | 8:07 | 3 | 2 | ALIVE | A | 201 | |
| NS4 | 7:42 | 7:52 | 10 | 2 | ALIVE | A | 203 | |
| NS5 | 7:37 | 7:55 | 18 | 2 | ALIVE | A | 160 | |
| NS6 | 7:43 | 7:47 | 4 | 2 | ALIVE | A | 196 | |
| NS7 | 8:05 | 8:28 | 23 | 2 | ALIVE | A | 146 | |
| NS8 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 159 | |
| NS9 | 7:47 | 7:56 | 9 | 2 | ALIVE | A | 159 | |
| NT0 | 7:57 | 8:15 | 18 | 2 | ALIVE | A | 205 | |
| NT1 | 7:40 | 7:45 | 5 | 2 | ALIVE | A | 204 | |
| NT2 | 7:39 | 7:41 | 2 | 2 | ALIVE | A | 140 | |
| NT3 | 7:53 | 7:55 | 2 | 2 | ALIVE | A | 151 | |
| NT4 | 7:56 | 8:04 | 8 | 2 | ALIVE | A | 140 | |
| NT5 | 8:25 | 8:43 | 18 | 2 | ALIVE | A | 150 | |
| NT6 | 8:25 | 8:29 | 4 | 2 | ALIVE | A | 205 | |
| NT7 | 8:31 | 8:34 | 3 | 2 | ALIVE | A | 198 | |
| NT8 | 8:26 | 8:31 | 5 | 2 | ALIVE | A | 191 | |
| NT9 | 8:30 | 8:43 | 13 | 2 | ALIVE | A | 155 | |
| NU0 | 8:45 | 8:52 | 7 | 1 | ALIVE | A | 166 | |
| NU1 | 8:34 | 8:40 | 6 | 2 | ALIVE | A | 149 | |
| NU2 | 8:42 | 8:58 | 16 | 2 | ALIVE | A | 202 | |
| NU3 | 8:44 | 8:49 | 5 | 2 | ALIVE | A | 205 | |
| NU4 | 8:49 | 8:53 | 4 | 2 | ALIVE | A | 139 | |
| NU5 | 9:17 | 9:19 | 2 | 2 | ALIVE | A | 167 | |
| NU6 | 9:02 | 9:14 | 12 | 2 | ALIVE | A | 136 | |
| NU7 | 9:01 | 9:16 | 15 | 2 | ALIVE | A | 204 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NU8 | 8:55 | 8:59 | 4 | 2 | ALIVE | A | 205 |
| NU9 | 8:54 | . | . | 0 | DEAD | Z | 136 |
| NV0 | 9:19 | 9:20 | 1 | 2 | ALIVE | A | 143 |
| NV1 | 9:21 | 9:24 | 3 | 2 | ALIVE | A | 202 |
| NV2 | 9:22 | 9:32 | 10 | 2 | ALIVE | A | 139 |
| NV3 | 9:25 | . | . | 0 | DEAD | Z | 141 |
| NV4 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 190 |
| NV5 | 9:28 | 9:31 | 3 | 2 | ALIVE | A | 153 |
| NV6 | 9:36 | 9:41 | 5 | 2 | ALIVE | A | 198 |
| NV7 | 9:33 | 9:34 | 1 | 2 | ALIVE | A | 151 |
| NV8 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 182 |
| NV9 | 9:35 | 9:42 | 7 | 2 | ALIVE | A | 146 |
| NW0 | 9:58 | 10:04 | 6 | 2 | ALIVE | A | 196 |
| NW1 | 9:59 | 10:20 | 21 | 2 | ALIVE | A | 205 |
| NW2 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 207 |
| NW3 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 191 |
| NW4 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 197 |
| NW5 | 10:06 | 10:52 | 46 | 2 | ALIVE | A | 199 |
| NW6 | 10:16 | 10:30 | 14 | 2 | ALIVE | A | 137 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NW7 | 10:01 | 10:04 | 3 | 2 | ALIVE | A | 150 | |
| NW8 | 10:05 | 10:15 | 10 | 2 | ALIVE | A | 193 | |
| NW9 | 10:25 | 10:28 | 3 | 2 | ALIVE | A | 148 | |
| NX0 | 10:45 | 10:57 | 12 | 2 | ALIVE | A | 203 | |
| NX1 | 10:46 | 10:48 | 2 | 2 | ALIVE | A | 143 | |
| NX2 | 10:39 | 10:45 | 6 | 2 | ALIVE | A | 198 | |
| NX3 | 10:31 | 10:44 | 13 | 2 | ALIVE | A | 135 | |
| NX4 | 10:30 | 10:39 | 9 | 2 | ALIVE | A | 195 | |
| NX5 | 10:52 | 10:56 | 4 | 2 | ALIVE | A | 198 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NX6 | 10:48 | 10:51 | 3 | 2 | ALIVE | A | 138 |
| NX7 | 10:56 | 11:00 | 4 | 2 | ALIVE | A | 187 |
| NX8 | 11:01 | 11:14 | 13 | 2 | ALIVE | A | 160 |
| NX9 | 10:58 | 11:00 | 2 | 2 | ALIVE | A | 132 |
| NY0 | 11:28 | 11:32 | 4 | 2 | ALIVE | A | 192 |
| NY1 | 11:13 | 11:35 | 22 | 2 | ALIVE | A | 140 |
| NY2 | 11:16 | 11:26 | 10 | 2 | ALIVE | A | 191 |
| NY3 | 11:33 | 11:41 | 8 | 2 | ALIVE | A | 201 |
| NY4 | 11:04 | 11:11 | 7 | 2 | ALIVE | A | 207 |
| NY5 | 12:00 | 12:05 | 5 | 2 | ALIVE | A | 193 |
| NY6 | 12:26 | 12:28 | 2 | 2 | ALIVE | A | 151 |
| NY7 | 12:20 | 12:25 | 5 | 2 | ALIVE | A | 199 |
| NY8 | 12:01 | 12:18 | 17 | 2 | ALIVE | A | 200 |
| NY9 | 11:51 | 11:53 | 2 | 2 | ALIVE | A | 145 |

10 January 2000 - Testlot 42 : PL=1, Unit 5, Mid - Water temp=41.9 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F55 | 8:02 | 8:06 | 4 | 2 | ALIVE | A | 203 |
| F58 | 7:59 | 8:13 | 14 | 2 | ALIVE | A | 121 |
| F60 | 8:37 | 9:00 | 23 | 2 | ALIVE | A | 142 |
| F61 | 8:25 | 8:28 | 3 | 2 | ALIVE | A | 193 |
| F62 | 8:32 | 8:46 | 14 | 2 | ALIVE | A | 207 |
| F63 | 8:29 | 8:32 | 3 | 2 | ALIVE | A | 131 |
| F64 | 8:48 | 9:18 | 30 | 2 | ALIVE | A | 149 |
| F65 | 9:10 | 9:17 | 7 | 2 | ALIVE | A | 151 |
| F66 | 9:01 | 9:09 | 8 | 2 | ALIVE | A | 206 |
| F67 | 8:56 | 9:00 | 4 | 2 | ALIVE | A | 152 |
| F68 | 9:18 | 9:32 | 14 | 2 | ALIVE | A | 150 |
| F69 | 9:00 | . | . | 0 | UNKNOWN | X | 148 |
| F70 | 9:46 | 10:19 | 33 | 2 | ALIVE | A | 164 |
| F71 | 9:21 | 9:42 | 21 | 2 | ALIVE | A | 207 |
| F72 | 9:33 | 9:45 | 12 | 2 | ALIVE | A | 152 |
| F73 | 9:40 | 10:08 | 28 | 2 | ALIVE | A | 140 |
| F74 | 9:32 | . | . | 0 | DEAD | Z | 150 |
| F75 | 11:18 | 11:28 | 10 | 2 | ALIVE | A | 152 |
| F77 | 11:30 | 11:50 | 20 | 2 | ALIVE | A | 151 |
| F78 | 11:29 | 12:11 | 42 | 2 | ALIVE | A | 208 |
| F79 | 11:26 | 11:41 | 15 | 2 | ALIVE | A | 150 |
| F80 | 11:42 | 11:54 | 12 | 2 | ALIVE | A | 145 |
| F81 | 12:13 | 12:16 | 3 | 2 | ALIVE | A | 150 |
| F82 | 11:55 | 12:16 | 21 | 2 | ALIVE | A | 142 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| F83 | 12:01 | 12:16 | 15 | 2 | ALIVE | A | 146 | |
| F84 | 11:51 | 12:00 | 9 | 2 | ALIVE | A | 131 | |
| F85 | 12:18 | 12:43 | 25 | 2 | ALIVE | A | 137 | |
| F86 | 12:19 | 12:33 | 14 | 2 | ALIVE | A | 143 | |
| F88 | 12:33 | 12:45 | 12 | 2 | ALIVE | A | 145 | |
| F89 | 12:21 | 12:30 | 9 | 2 | ALIVE | A | 201 | |
| F90 | 10:29 | 11:29 | 60 | 2 | ALIVE | A | 200 | |
| F91 | 10:39 | 11:12 | 33 | 2 | ALIVE | A | 191 | |
| F92 | 10:28 | 10:33 | 5 | 2 | ALIVE | A | 209 | |
| F93 | 10:23 | 10:56 | 33 | 2 | ALIVE | A | 165 | |
| F94 | 10:34 | 10:37 | 3 | 2 | ALIVE | A | 130 | |
| F95 | 12:46 | 12:57 | 11 | 2 | ALIVE | A | 195 | |
| F96 | 12:45 | 12:53 | 8 | 2 | ALIVE | A | 139 | |
| F97 | 12:47 | 13:06 | 19 | 2 | ALIVE | A | 152 | |
| F98 | 12:43 | 12:46 | 3 | 2 | ALIVE | A | 189 | |
| F99 | 12:54 | 13:25 | 31 | 2 | ALIVE | A | 138 | |
| FA0 | 13:18 | 13:47 | 29 | 2 | ALIVE | A | 206 | |
| FA1 | 13:18 | 13:20 | 2 | 2 | ALIVE | A | 165 | |
| FA2 | 13:21 | 13:44 | 23 | 2 | ALIVE | A | 199 | |
| FA3 | 13:31 | 13:39 | 8 | 2 | ALIVE | A | 141 | |
| FA4 | 13:40 | 13:51 | 11 | 2 | ALIVE | A | 145 | |
| FA5 | 13:46 | 14:05 | 19 | 2 | ALIVE | A | 136 | |
| FA6 | 13:57 | 14:01 | 4 | 2 | ALIVE | A | 211 | |
| FA7 | 13:52 | 14:03 | 11 | 2 | ALIVE | A | 197 | |
| FA8 | 13:47 | 13:52 | 5 | 2 | ALIVE | A | 198 | |
| FA9 | 13:53 | 13:57 | 4 | 2 | ALIVE | A | 147 | |
| FB0 | 14:04 | 14:18 | 14 | 2 | ALIVE | A | 195 | |
| FB1 | 14:05 | 14:11 | 6 | 2 | ALIVE | A | 202 | |
| FB2 | 14:11 | 14:20 | 9 | 2 | ALIVE | A | 201 | |
| FB3 | 14:06 | 14:12 | 6 | 2 | ALIVE | A | 196 | |
| FB4 | 14:01 | 14:05 | 4 | 2 | ALIVE | A | 152 | |
| FB5 | 14:20 | 14:24 | 4 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FB6 | 14:25 | 14:28 | 3 | 2 | ALIVE | A | 132 |
| FB7 | 14:19 | 14:26 | 7 | 2 | ALIVE | A | 133 |
| FB8 | 14:25 | 14:25 | 0 | 2 | ALIVE | A | 127 |
| FB9 | 14:20 | 14:24 | 4 | 2 | ALIVE | A | 189 |
| FC0 | 14:49 | 14:51 | 2 | 2 | ALIVE | A | 194 |
| FC1 | 15:13 | 15:15 | 2 | 2 | ALIVE | A | 195 |
| FC2 | 14:59 | 15:06 | 7 | 2 | ALIVE | A | 152 |
| FC3 | 15:06 | 15:09 | 3 | 2 | ALIVE | A | 146 |
| FC4 | 14:54 | 14:57 | 3 | 2 | ALIVE | A | 146 |
| FC5 | 14:48 | 14:49 | 1 | 2 | ALIVE | A | 155 |
| FC6 | 14:51 | 14:51 | 0 | 2 | ALIVE | A | 201 |
| FC7 | 15:08 | 15:09 | 1 | 2 | ALIVE | A | 139 |
| FC8 | 14:52 | 15:02 | 10 | 2 | ALIVE | A | 202 |
| FC9 | 14:57 | 15:11 | 14 | 2 | ALIVE | A | 203 |
| FD0 | 15:03 | 15:05 | 2 | 2 | ALIVE | A | 180 |
| FD1 | 15:10 | 15:12 | 2 | 2 | ALIVE | A | 205 |
| FD2 | 14:47 | 14:51 | 4 | 2 | ALIVE | A | 136 |
| FD3 | 14:52 | 14:56 | 4 | 2 | ALIVE | A | 205 |
| FD4 | 15:09 | 15:12 | 3 | 2 | ALIVE | A | 158 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| FD5 | 15:22 | 15:35 | 13 | 2 | ALIVE | A | 155 | |
| FD6 | 15:23 | 15:45 | 22 | 2 | ALIVE | A | 137 | |
| FD7 | 15:25 | 15:35 | 10 | 2 | ALIVE | A | 132 | |
| FD8 | 15:36 | 15:54 | 18 | 2 | ALIVE | A | 204 | |
| FD9 | 15:23 | 15:25 | 2 | 2 | ALIVE | A | 190 | |
| FE0 | 15:44 | 15:57 | 13 | 2 | ALIVE | A | 192 | |
| FE1 | 15:54 | 16:02 | 8 | 2 | ALIVE | A | 187 | |
| FE2 | 15:37 | 15:44 | 7 | 2 | ALIVE | A | 176 | |
| FE3 | 15:58 | 16:03 | 5 | 2 | ALIVE | A | 168 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FE4 | 15:46 | 16:04 | 18 | 2 | ALIVE | A | 145 |
| FE5 | 16:02 | 16:22 | 20 | 2 | ALIVE | A | 150 |
| FE6 | 16:09 | 16:12 | 3 | 2 | ALIVE | A | 205 |
| FE7 | 16:04 | 16:08 | 4 | 2 | ALIVE | A | 146 |
| FE8 | 16:03 | 16:07 | 4 | 2 | ALIVE | A | 139 |
| FE9 | 16:07 | 16:10 | 3 | 2 | ALIVE | A | 135 |
| FF0 | 16:26 | 16:30 | 4 | 2 | ALIVE | A | 146 |
| FF1 | 16:23 | 16:36 | 13 | 2 | ALIVE | A | 185 |
| FF2 | 16:13 | 16:38 | 25 | 2 | ALIVE | A | 143 |
| FF3 | 16:20 | 16:27 | 7 | 2 | ALIVE | A | 138 |
| FF4 | 16:11 | 16:16 | 5 | 2 | ALIVE | A | 142 |
| FF5 | 16:43 | 16:44 | 1 | 2 | ALIVE | A | 130 |
| FF9 | 16:41 | 16:41 | 0 | 2 | ALIVE | A | 207 |
| FH0 | 16:39 | 16:40 | 1 | 2 | ALIVE | A | 206 |
| FH1 | 16:46 | 16:52 | 6 | 2 | ALIVE | A | 188 |
| FH2 | 16:38 | 16:42 | 4 | 2 | ALIVE | A | 130 |
| FH3 | 16:42 | 16:44 | 2 | 2 | ALIVE | A | 207 |
| FH6 | 16:44 | 16:53 | 9 | 2 | ALIVE | A | 155 |
| FH7 | 16:39 | 16:53 | 14 | 2 | ALIVE | A | 146 |
| FH8 | 16:33 | 16:38 | 5 | 2 | ALIVE | A | 140 |
| FH9 | 16:32 | 16:33 | 1 | 2 | ALIVE | A | 164 |
| FL8 | 16:16 | 16:19 | 3 | 2 | ALIVE | A | 142 |
| FL9 | 12:58 | 13:03 | 5 | 2 | ALIVE | A | 195 |
| NZ0 | 7:53 | 8:11 | 18 | 2 | ALIVE | A | 204 |
| NZ1 | 7:56 | 8:01 | 5 | 2 | ALIVE | A | 200 |
| NZ2 | 7:45 | 7:55 | 10 | 2 | ALIVE | A | 205 |
| NZ3 | 7:48 | 7:57 | 9 | 2 | ALIVE | A | 152 |
| NZ4 | 7:47 | 7:52 | 5 | 2 | ALIVE | A | 143 |
| NZ5 | 8:15 | 8:24 | 9 | 2 | ALIVE | A | 157 |
| NZ6 | 8:13 | 8:36 | 23 | 2 | ALIVE | A | 206 |
| NZ7 | 8:08 | . | . | 0 | DEAD | Z | 143 |

11 January 2000 - Testlot 43 : PL=1, Control - Water temp=41.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FJ0 | 7:55 | 7:57 | 2 | 2 | ALIVE | A | 184 |
| FJ1 | 7:56 | 8:00 | 4 | 2 | ALIVE | A | 150 |
| FJ2 | 7:39 | 7:42 | 3 | 2 | ALIVE | A | 172 |
| FJ3 | 7:46 | 7:49 | 3 | 2 | ALIVE | A | 155 |
| FJ4 | 7:40 | 7:45 | 5 | 2 | ALIVE | A | 134 |
| FJ5 | 7:38 | 7:49 | 11 | 2 | ALIVE | A | 154 |
| FJ6 | 7:52 | 7:55 | 3 | 2 | ALIVE | A | 186 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| FJ7 | 7:54 | 8:13 | 19 | 2 | ALIVE | A | 152 | |
| FJ8 | 7:50 | 7:52 | 2 | 2 | ALIVE | A | 146 | |
| FJ9 | 7:42 | 7:45 | 3 | 2 | ALIVE | A | 144 | |
| FK0 | 7:46 | 7:54 | 8 | 2 | ALIVE | A | 134 | |
| FK1 | 8:00 | 8:04 | 4 | 2 | ALIVE | A | 192 | |
| FK2 | 7:38 | 7:40 | 2 | 2 | ALIVE | A | 195 | |
| FK3 | 7:57 | 8:05 | 8 | 2 | ALIVE | A | 190 | |
| FK4 | 7:50 | 7:53 | 3 | 2 | ALIVE | A | 147 | |
| FK5 | 8:16 | 8:28 | 12 | 2 | ALIVE | A | 151 | |
| FK6 | 8:17 | 8:18 | 1 | 2 | ALIVE | A | 143 | |
| FK7 | 8:17 | 8:29 | 12 | 2 | ALIVE | A | 140 | |
| FK8 | 8:19 | 8:28 | 9 | 2 | ALIVE | A | 157 | |
| FK9 | 8:29 | 8:34 | 5 | 2 | ALIVE | A | 146 | |
| FL0 | 13:13 | 13:30 | 17 | 2 | ALIVE | A | 144 | |
| FL1 | 13:14 | 13:21 | 7 | 2 | ALIVE | A | 183 | |
| FL2 | 13:41 | 13:44 | 3 | 2 | ALIVE | A | 185 | |
| FL3 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 203 | |
| FL4 | 14:06 | 14:09 | 3 | 2 | ALIVE | H | 203 | |
| FM0 | 8:32 | 8:36 | 4 | 2 | ALIVE | H | 167 | |
| FM1 | 8:38 | 8:39 | 1 | 2 | ALIVE | A | 141 | |
| FM2 | 8:38 | 8:42 | 4 | 2 | ALIVE | A | 190 | |
| FM3 | 8:33 | 8:36 | 3 | 2 | ALIVE | A | 152 | |
| FM4 | 8:37 | 8:45 | 8 | 2 | ALIVE | A | 204 | |
| FM5 | 8:43 | 8:46 | 3 | 2 | ALIVE | A | 155 | |
| FM6 | 8:44 | 8:46 | 2 | 2 | ALIVE | A | 147 | |
| FM7 | 8:47 | 8:49 | 2 | 2 | ALIVE | A | 171 | |
| FM8 | 8:40 | 8:45 | 5 | 2 | ALIVE | A | 150 | |
| FM9 | 8:46 | 8:49 | 3 | 2 | ALIVE | A | 169 | |
| FN0 | 8:51 | 8:53 | 2 | 2 | ALIVE | A | 146 | |
| FN1 | 8:49 | 8:51 | 2 | 2 | ALIVE | A | 143 | |
| FN2 | 8:50 | 8:52 | 2 | 2 | ALIVE | A | 154 | |
| FN3 | 8:52 | 8:54 | 2 | 2 | ALIVE | A | 183 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FN4 | 8:53 | 8:58 | 5 | 2 | ALIVE | A | 147 |
| FN5 | 8:55 | 9:00 | 5 | 1 | ALIVE | HB | 137 |
| FN6 | 8:58 | 9:01 | 3 | 2 | ALIVE | A | 135 |
| FN7 | 9:01 | 9:19 | 18 | 1 | ALIVE | B | 140 |
| FN8 | 8:56 | 8:59 | 3 | 2 | ALIVE | A | 149 |
| FN9 | 8:59 | 9:03 | 4 | 2 | ALIVE | A | 162 |
| FP0 | 9:31 | 9:33 | 2 | 2 | ALIVE | A | 195 |
| FP1 | 9:23 | 9:27 | 4 | 2 | ALIVE | A | 201 |
| FP2 | 9:14 | 9:23 | 9 | 2 | ALIVE | A | 146 |
| FP3 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 181 |
| FP4 | 9:28 | 9:30 | 2 | 2 | ALIVE | A | 152 |
| FP5 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 160 |
| FP6 | 9:31 | 9:35 | 4 | 2 | ALIVE | A | 166 |
| FP7 | 9:24 | 9:26 | 2 | 2 | ALIVE | A | 140 |
| FP8 | 9:27 | 9:29 | 2 | 2 | ALIVE | A | 133 |
| FP9 | 9:18 | 9:30 | 12 | 2 | ALIVE | A | 135 |
| FR0 | 9:27 | 9:50 | 23 | 2 | ALIVE | A | 205 |
| FR1 | 9:36 | 9:41 | 5 | 2 | ALIVE | A | 144 |
| FR2 | 9:24 | 9:26 | 2 | 2 | ALIVE | A | 136 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| FR3 | 9:16 | 9:17 | 1 | 2 | ALIVE | A | 140 | |
| FR4 | 9:37 | 9:38 | 1 | 2 | ALIVE | A | 150 | |
| FR5 | 9:56 | 9:58 | 2 | 2 | ALIVE | A | 134 | |
| FR6 | 9:52 | 9:55 | 3 | 2 | ALIVE | A | 141 | |
| FR7 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 132 | |
| FR8 | 9:51 | 9:53 | 2 | 2 | ALIVE | A | 194 | |
| FR9 | 9:53 | 9:56 | 3 | 2 | ALIVE | A | 157 | |
| FS0 | 10:03 | 10:06 | 3 | 2 | ALIVE | A | 151 | |
| FS1 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 170 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FS2 | 10:02 | 10:04 | 2 | 2 | ALIVE | A | 144 |
| FS3 | 10:04 | 10:07 | 3 | 2 | ALIVE | A | 142 |
| FS4 | 9:59 | 10:06 | 7 | 2 | ALIVE | A | 150 |
| FS5 | 10:13 | 10:16 | 3 | 2 | ALIVE | A | 151 |
| FS6 | 10:06 | 10:12 | 6 | 2 | ALIVE | A | 143 |
| FS7 | 10:07 | . | . | 2 | DEAD | Z | 152 |
| FS8 | 10:08 | 10:11 | 3 | 2 | ALIVE | A | 132 |
| FS9 | 10:12 | 10:15 | 3 | 2 | ALIVE | A | 147 |
| FT0 | 10:18 | 10:20 | 2 | 2 | ALIVE | A | 158 |
| FT1 | 10:22 | 10:27 | 5 | 2 | ALIVE | A | 130 |
| FT2 | 10:22 | 10:25 | 3 | 2 | ALIVE | A | 144 |
| FT3 | 10:17 | 10:20 | 3 | 2 | ALIVE | A | 140 |
| FT4 | 10:25 | 10:32 | 7 | 2 | ALIVE | A | 144 |
| FT5 | 10:27 | 10:42 | 15 | 1 | ALIVE | HB | 204 |
| FT6 | 10:43 | 10:45 | 2 | 2 | ALIVE | A | 145 |
| FT7 | 10:33 | 10:43 | 10 | 2 | ALIVE | A | 146 |
| FT8 | 10:44 | 10:48 | 4 | 2 | ALIVE | A | 139 |
| FT9 | 10:46 | 10:53 | 7 | 2 | ALIVE | A | 136 |
| FU0 | 11:00 | 11:03 | 3 | 2 | ALIVE | A | 195 |
| FU1 | 11:01 | 11:15 | 14 | 2 | ALIVE | A | 132 |
| FU2 | 11:02 | 11:04 | 2 | 2 | ALIVE | A | 145 |
| FU3 | 11:04 | 11:08 | 4 | 2 | ALIVE | A | 135 |
| FU4 | 11:06 | 11:12 | 6 | 2 | ALIVE | A | 132 |
| FU5 | 11:13 | 11:39 | 26 | 2 | ALIVE | A | 146 |
| FU6 | 11:12 | 11:13 | 1 | 2 | ALIVE | A | 145 |
| FU7 | 11:20 | 11:39 | 19 | 2 | ALIVE | A | 155 |
| FU8 | 11:19 | 11:21 | 2 | 2 | ALIVE | A | 147 |
| FU9 | 11:15 | . | . | 0 | TAG & PIN | | 144 |
| FV0 | 11:43 | 12:00 | 17 | 2 | ALIVE | A | 150 |
| FV1 | 11:43 | 11:47 | 4 | 2 | ALIVE | A | 185 |
| FV2 | 11:23 | 11:37 | 14 | 2 | ALIVE | A | 147 |
| FV3 | 11:42 | 11:48 | 6 | 2 | ALIVE | A | 151 |
| FV4 | 11:49 | 11:58 | 9 | 2 | ALIVE | A | 145 |
| FV5 | 11:51 | 11:58 | 7 | 2 | ALIVE | A | 203 |
| FV6 | 12:04 | 12:23 | 19 | 2 | ALIVE | A | 158 |
| FV7 | 12:01 | 12:07 | 6 | 2 | ALIVE | A | 140 |
| FV8 | 11:59 | 12:03 | 4 | 2 | ALIVE | A | 145 |
| FV9 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 135 |
| FW0 | 12:24 | 12:34 | 10 | 1 | DEAD | B | 150 |
| FW1 | 12:23 | 12:27 | 4 | 2 | ALIVE | A | 145 |
| FW2 | 12:25 | 15:30 | 185 | 2 | ALIVE | A | 136 |
| FW3 | 12:20 | 12:24 | 4 | 2 | DEAD | J | 133 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| FW4 | 12:19 | 12:22 | 3 | 2 | ALIVE | A | 170 | |
| FW5 | 12:29 | 15:30 | 181 | 2 | ALIVE | A | 137 | |
| FW6 | 12:46 | . | . | 0 | UNKNOWN | X | 159 | |
| FW7 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 155 | |
| FW8 | 12:37 | 12:44 | 7 | 2 | ALIVE | A | 204 | |
| FW9 | 12:44 | 12:47 | 3 | 2 | DEAD | EN | 205 | |
| FX0 | 12:55 | 12:59 | 4 | 2 | ALIVE | A | 168 | |
| FX1 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 148 | |
| FX3 | 12:50 | 12:53 | 3 | 2 | ALIVE | A | 145 | |
| FX4 | 12:51 | 12:54 | 3 | 2 | ALIVE | A | 138 | |
| FX5 | 13:48 | 15:30 | 102 | 2 | ALIVE | A | 143 | |
| FX6 | 13:00 | 15:30 | 150 | 2 | ALIVE | A | 150 | |
| FX7 | 13:22 | 13:31 | 9 | 2 | ALIVE | A | 138 | |
| FX8 | 13:32 | 13:39 | 7 | 2 | ALIVE | A | 191 | |
| FX9 | 13:34 | 13:55 | 21 | 2 | ALIVE | A | 147 | |
| 12 January 2000 - Testlot 44 : PL=2, Unit 5, Tip - Water temp=41.0 C | | | | | | | | |
| FL5 | 11:12 | 11:15 | 3 | 2 | ALIVE | A | 168 | |
| FL6 | 12:25 | 12:46 | 21 | 2 | ALIVE | A | 145 | |
| FL7 | 12:24 | 12:26 | 2 | 2 | ALIVE | A | 154 | |
| FY0 | 7:45 | 7:52 | 7 | 2 | ALIVE | A | 151 | |
| FY1 | 7:45 | 8:00 | 15 | 2 | ALIVE | A | 148 | |
| FY2 | 7:53 | 8:05 | 12 | 2 | ALIVE | A | 147 | |
| FY3 | 7:46 | 7:52 | 6 | 2 | ALIVE | A | 184 | |
| FY4 | 7:52 | 7:58 | 6 | 2 | ALIVE | A | 149 | |
| FY5 | 8:01 | 8:04 | 3 | 2 | ALIVE | A | 205 | |
| FY6 | 8:06 | 8:08 | 2 | 2 | ALIVE | A | 141 | |
| FY7 | 8:05 | 8:26 | 21 | 2 | ALIVE | A | 137 | |
| FY8 | 8:10 | . | . | 0 | DEAD | Z | 135 | |
| FY9 | 7:59 | 8:35 | 36 | 2 | ALIVE | A | 192 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FZ0 | 8:28 | 8:46 | 18 | 2 | ALIVE | A | 200 |
| FZ1 | 8:56 | 9:07 | 11 | 2 | ALIVE | A | 135 |
| FZ2 | 8:38 | 8:50 | 12 | 2 | ALIVE | A | 142 |
| FZ3 | 8:47 | 8:56 | 9 | 2 | ALIVE | A | 145 |
| FZ4 | 8:50 | 8:57 | 7 | 2 | ALIVE | A | 160 |
| FZ5 | 9:00 | . | . | 0 | DEAD | Z | 188 |
| FZ6 | 8:59 | 9:23 | 24 | 2 | ALIVE | A | 185 |
| FZ7 | 9:07 | 9:11 | 4 | 2 | ALIVE | A | 146 |
| FZ8 | 9:13 | 9:45 | 32 | 2 | ALIVE | A | 191 |
| FZ9 | 9:12 | 9:22 | 10 | 2 | ALIVE | A | 146 |
| LA0 | 9:24 | 10:15 | 51 | 2 | ALIVE | A | 198 |
| LA1 | 9:23 | 9:28 | 5 | 2 | ALIVE | A | 140 |
| LA2 | 9:50 | 9:54 | 4 | 2 | ALIVE | A | 138 |
| LA3 | 9:52 | 9:59 | 7 | 2 | ALIVE | A | 164 |
| LA4 | 9:29 | 9:48 | 19 | 2 | ALIVE | A | 145 |
| LA5 | 10:07 | 10:19 | 12 | 2 | ALIVE | A | 190 |
| LA6 | 10:04 | 10:09 | 5 | 2 | ALIVE | A | 201 |
| LA7 | 10:19 | 10:22 | 3 | 2 | ALIVE | A | 146 |
| LA8 | 10:10 | 10:35 | 25 | 2 | ALIVE | A | 147 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| LA9 | 10:05 | 10:10 | 5 | 2 | ALIVE | A | 150 | |
| LB1 | 10:22 | 10:25 | 3 | 2 | ALIVE | A | 205 | |
| LB2 | 10:33 | 10:40 | 7 | 2 | ALIVE | A | 192 | |
| LB4 | 10:26 | 10:36 | 10 | 2 | ALIVE | A | 183 | |
| LB5 | 10:43 | 10:50 | 7 | 2 | ALIVE | A | 156 | |
| LB6 | 10:39 | 10:41 | 2 | 2 | ALIVE | A | 200 | |
| LB7 | 10:45 | 11:03 | 18 | 2 | ALIVE | A | 152 | |
| LB8 | 10:42 | 10:49 | 7 | 2 | ALIVE | A | 136 | |
| LB9 | 10:41 | 10:43 | 2 | 2 | ALIVE | A | 135 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LC0 | 10:52 | 10:54 | 2 | 2 | ALIVE | A | 145 |
| LC1 | 10:55 | 11:04 | 9 | 2 | ALIVE | A | 200 |
| LC2 | 10:53 | 11:00 | 7 | 2 | ALIVE | A | 200 |
| LC3 | 11:00 | 11:04 | 4 | 2 | ALIVE | A | 205 |
| LC4 | 11:02 | 11:10 | 8 | 2 | ALIVE | A | 142 |
| LC5 | 11:04 | 11:07 | 3 | 2 | ALIVE | A | 142 |
| LC6 | 11:12 | 11:16 | 4 | 2 | ALIVE | A | 156 |
| LC7 | 11:11 | 11:15 | 4 | 2 | ALIVE | A | 140 |
| LC8 | 11:05 | 11:11 | 6 | 2 | ALIVE | A | 161 |
| LC9 | 11:07 | 11:10 | 3 | 2 | ALIVE | A | 140 |
| LD0 | 11:27 | 11:51 | 24 | 2 | ALIVE | A | 149 |
| LD1 | 11:26 | 11:32 | 6 | 2 | ALIVE | A | 160 |
| LD2 | 11:28 | 11:48 | 20 | 2 | ALIVE | A | 153 |
| LD3 | 11:48 | 11:55 | 7 | 2 | ALIVE | A | 141 |
| LD4 | 11:32 | 11:48 | 16 | 2 | ALIVE | A | 150 |
| LD5 | 11:59 | 12:31 | 32 | 1 | ALIVE | HB | 206 |
| LD6 | 11:55 | 12:03 | 8 | 2 | ALIVE | A | 200 |
| LD7 | 11:50 | 15:30 | 220 | 2 | ALIVE | A | 202 |
| LD8 | 11:52 | 11:59 | 7 | 2 | ALIVE | A | 185 |
| LD9 | 12:00 | 12:03 | 3 | 2 | ALIVE | A | 147 |
| LE0 | 12:17 | 12:33 | 16 | 2 | ALIVE | A | 155 |
| LE1 | 12:10 | 12:19 | 9 | 2 | ALIVE | A | 206 |
| LE2 | 12:04 | 15:30 | 206 | 2 | ALIVE | A | 155 |
| LE3 | 12:14 | 12:17 | 3 | 2 | ALIVE | A | 140 |
| LE4 | 12:03 | 15:30 | 207 | 2 | ALIVE | A | 134 |
| LE5 | 12:42 | 12:49 | 7 | 2 | ALIVE | A | 142 |
| LE6 | 12:39 | 12:41 | 2 | 2 | ALIVE | A | 140 |
| LE7 | 12:19 | 12:23 | 4 | 2 | ALIVE | A | 139 |
| LE8 | 12:43 | 12:57 | 14 | 2 | ALIVE | A | 160 |
| LE9 | 12:34 | 12:42 | 8 | 2 | ALIVE | A | 193 |
| LF0 | 13:02 | 13:07 | 5 | 2 | ALIVE | A | 195 |
| LF1 | 13:12 | 13:21 | 9 | 2 | ALIVE | A | 190 |
| LF2 | 13:08 | 13:10 | 2 | 2 | ALIVE | A | 151 |
| LF3 | 13:00 | 13:19 | 19 | 2 | ALIVE | A | 185 |
| LF4 | 13:01 | 13:34 | 33 | 2 | ALIVE | A | 154 |
| LF5 | 13:26 | 15:08 | 102 | 2 | ALIVE | A | 140 |
| LF6 | 13:39 | 13:41 | 2 | 2 | ALIVE | A | 145 |
| LF7 | 13:29 | 13:49 | 20 | 2 | ALIVE | A | 150 |
| LF8 | 13:21 | 13:24 | 3 | 2 | ALIVE | A | 145 |
| LF9 | 13:23 | 13:28 | 5 | 2 | ALIVE | A | 148 |
| LH0 | 13:50 | 13:57 | 7 | 2 | ALIVE | A | 145 |
| LH1 | 13:41 | 13:44 | 3 | 2 | ALIVE | A | 132 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| LH3 | 13:44 | 13:50 | 6 | 2 | ALIVE | A | 156 | |
| LH4 | 13:51 | 14:04 | 13 | 2 | ALIVE | A | 137 | |
| LH5 | 13:57 | 14:05 | 8 | 2 | ALIVE | A | 202 | |
| LH6 | 14:06 | 14:12 | 6 | 2 | ALIVE | A | 135 | |
| LH7 | 14:13 | 14:20 | 7 | 2 | ALIVE | A | 190 | |
| LH8 | 14:04 | 14:10 | 6 | 2 | ALIVE | A | 151 | |
| LH9 | 14:10 | 14:17 | 7 | 2 | DEAD | | 180 | |
| LJ0 | 14:56 | 15:01 | 5 | 2 | ALIVE | A | 139 | |
| LJ1 | 15:00 | 15:03 | 3 | 2 | ALIVE | A | 145 | |
| LJ2 | 14:44 | 14:57 | 13 | 2 | ALIVE | A | 137 | |
| LJ3 | 14:39 | 14:40 | 1 | 2 | ALIVE | A | 145 | |
| LJ4 | 14:52 | . | . | 0 | UNKNOWN | X | 206 | |
| LJ5 | 15:02 | 15:05 | 3 | 2 | ALIVE | A | 147 | |
| LJ6 | 14:43 | 14:50 | 7 | 2 | ALIVE | A | 150 | |
| LJ7 | 14:53 | 14:56 | 3 | 2 | ALIVE | A | 136 | |
| LJ8 | 14:48 | 14:50 | 2 | 2 | ALIVE | A | 141 | |
| LJ9 | 14:41 | 14:44 | 3 | 2 | ALIVE | A | 159 | |
| LK0 | 14:40 | 14:47 | 7 | 2 | ALIVE | A | 140 | |
| LK1 | 14:58 | 15:00 | 2 | 2 | ALIVE | A | 138 | |
| LK2 | 14:39 | 14:43 | 4 | 2 | ALIVE | A | 145 | |
| LK3 | 15:03 | 15:09 | 6 | 2 | ALIVE | A | 141 | |
| LK4 | 14:51 | 14:53 | 2 | 2 | ALIVE | A | 138 | |
| LK5 | 15:30 | 15:33 | 3 | 2 | ALIVE | A | 191 | |
| LK6 | 15:40 | 15:43 | 3 | 2 | ALIVE | A | 200 | |
| LK7 | 15:39 | 15:42 | 3 | 2 | ALIVE | A | 136 | |
| LK8 | 15:37 | 15:39 | 2 | 2 | ALIVE | A | 133 | |
| LK9 | 15:05 | 15:09 | 4 | 2 | ALIVE | A | 195 | |
| LL0 | 15:32 | 15:36 | 4 | 2 | ALIVE | A | 197 | |
| LL1 | 15:11 | 15:15 | 4 | 2 | ALIVE | A | 152 | |
| LL2 | 15:35 | 15:35 | 0 | 2 | ALIVE | A | 142 | |
| LL3 | 15:33 | 15:40 | 7 | 2 | ALIVE | A | 190 | |
| LL4 | 15:14 | 15:33 | 19 | 2 | ALIVE | A | 185 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LL5 | 15:13 | 15:29 | 16 | 2 | ALIVE | A | 185 |
| LL6 | 15:37 | 15:38 | 1 | 2 | ALIVE | A | 154 |
| LL7 | 15:26 | 15:31 | 5 | 2 | ALIVE | A | 204 |
| LL8 | 15:43 | 15:44 | 1 | 2 | ALIVE | A | 144 |
| LL9 | 15:42 | 15:49 | 7 | 2 | ALIVE | A | 149 |
| LV3 | 10:36 | 10:39 | 3 | 2 | DEAD | F | 190 |
| LZ7 | 14:21 | 14:32 | 11 | 2 | ALIVE | A | 184 |
| LZ8 | 14:17 | 14:20 | 3 | 2 | ALIVE | A | 151 |
| LZ9 | 12:33 | 12:39 | 6 | 2 | ALIVE | A | 162 |
| 13 January 2000 - Testlot 45 : PL=4, Control - Water temp=41.0 C | | | | | | | |
| L00 | 13:48 | 13:51 | 3 | 2 | ALIVE | A | 197 |
| L01 | 13:46 | 13:48 | 2 | 2 | ALIVE | A | 202 |
| L02 | 13:40 | 13:42 | 2 | 2 | ALIVE | A | 187 |
| L03 | 13:51 | 14:04 | 13 | 2 | ALIVE | A | 145 |
| L04 | 14:08 | 14:14 | 6 | 2 | ALIVE | A | 132 |
| L05 | 13:40 | 13:41 | 1 | 2 | ALIVE | A | 144 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| L06 | 14:08 | 14:10 | 2 | 2 | ALIVE | A | 143 | |
| L07 | 13:43 | 13:46 | 3 | 2 | ALIVE | A | 138 | |
| L08 | 13:52 | 13:56 | 4 | 2 | ALIVE | A | 154 | |
| L09 | 13:44 | 13:51 | 7 | 2 | ALIVE | A | 145 | |
| LM0 | 7:43 | 7:49 | 6 | 1 | DEAD | JB | 151 | |
| LM1 | 7:42 | 7:52 | 10 | 2 | ALIVE | A | 161 | |
| LM2 | 7:45 | 7:50 | 5 | 2 | ALIVE | A | 148 | |
| LM3 | 7:41 | 7:43 | 2 | 2 | ALIVE | A | 147 | |
| LM4 | 7:50 | 7:51 | 1 | 2 | ALIVE | A | 134 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LM5 | 8:02 | . | . | 0 | TAG & PIN | | 146 |
| LM6 | 7:57 | 7:57 | 0 | 2 | ALIVE | A | 141 |
| LM7 | 7:54 | 8:11 | 17 | 2 | ALIVE | A | 147 |
| LM8 | 7:53 | 8:05 | 12 | 2 | ALIVE | A | 144 |
| LM9 | 7:59 | 8:00 | 1 | 2 | ALIVE | A | 140 |
| LN0 | 8:31 | 8:36 | 5 | 2 | ALIVE | A | 144 |
| LN1 | 8:30 | 8:33 | 3 | 2 | ALIVE | HM | 132 |
| LN2 | 8:30 | 8:50 | 20 | 2 | ALIVE | A | 179 |
| LN3 | 8:36 | 8:41 | 5 | 2 | ALIVE | A | 141 |
| LN4 | 8:34 | 8:57 | 23 | 2 | ALIVE | A | 153 |
| LN5 | 8:55 | 8:58 | 3 | 2 | ALIVE | A | 154 |
| LN6 | 8:59 | 9:03 | 4 | 2 | ALIVE | A | 150 |
| LN7 | 8:46 | 8:49 | 3 | 2 | ALIVE | A | 151 |
| LN8 | 8:50 | 8:54 | 4 | 2 | ALIVE | A | 147 |
| LN9 | 8:42 | 9:03 | 21 | 2 | ALIVE | A | 148 |
| LP0 | 9:09 | 9:17 | 8 | 2 | ALIVE | A | 137 |
| LP1 | 9:07 | 9:12 | 5 | 2 | ALIVE | A | 151 |
| LP2 | 9:04 | 9:07 | 3 | 2 | ALIVE | A | 146 |
| LP3 | 9:13 | 15:30 | 377 | 2 | ALIVE | A | 133 |
| LP4 | 9:02 | 9:06 | 4 | 2 | ALIVE | A | 134 |
| LP5 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 147 |
| LP6 | 9:22 | 9:32 | 10 | 2 | ALIVE | A | 160 |
| LP7 | 9:21 | 9:26 | 5 | 2 | ALIVE | A | 195 |
| LP8 | 9:32 | 9:56 | 24 | 2 | ALIVE | A | 142 |
| LP9 | 9:27 | 9:31 | 4 | 2 | ALIVE | A | 139 |
| LR0 | 9:36 | 9:44 | 8 | 2 | ALIVE | A | 205 |
| LR1 | 9:44 | 9:47 | 3 | 2 | ALIVE | A | 147 |
| LR2 | 9:48 | 9:55 | 7 | 2 | ALIVE | A | 135 |
| LR3 | 9:43 | 9:48 | 5 | 2 | ALIVE | A | 153 |
| LR4 | 9:39 | 9:43 | 4 | 2 | ALIVE | A | 197 |
| LR5 | 9:57 | 10:01 | 4 | 1 | DEAD | EB | 195 |
| LR6 | 9:54 | 9:57 | 3 | 2 | ALIVE | A | 206 |
| LR7 | 9:50 | 9:53 | 3 | 2 | ALIVE | A | 162 |
| LR8 | 9:59 | 10:04 | 5 | 2 | ALIVE | A | 148 |
| LR9 | 10:02 | 10:04 | 2 | 2 | ALIVE | A | 152 |
| LS0 | 10:08 | 10:11 | 3 | 2 | ALIVE | A | 138 |
| LS1 | 10:11 | 10:14 | 3 | 2 | ALIVE | A | 147 |
| LS2 | 10:13 | 10:17 | 4 | 2 | ALIVE | A | 145 |
| LS3 | 10:06 | 10:12 | 6 | 2 | ALIVE | A | 137 |
| LS4 | 10:10 | 10:11 | 1 | 1 | ALIVE | HB | 134 |
| LS5 | 10:17 | 10:19 | 2 | 2 | ALIVE | A | 204 |
| LS6 | 10:15 | 10:20 | 5 | 2 | ALIVE | A | 200 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| LS7 | 10:21 | 10:23 | 2 | 2 | ALIVE | A | 136 | |
| LS8 | 10:19 | 10:21 | 2 | 2 | ALIVE | A | 193 | |
| LS9 | 10:20 | 10:22 | 2 | 2 | ALIVE | A | 132 | |
| LT0 | 10:46 | 10:47 | 1 | 2 | ALIVE | A | 200 | |
| LT2 | 10:39 | 10:41 | 2 | 2 | ALIVE | A | 196 | |
| LT3 | 10:42 | 10:44 | 2 | 2 | ALIVE | A | 147 | |
| LT4 | 10:45 | 10:52 | 7 | 2 | ALIVE | A | 198 | |
| LT5 | 10:50 | 10:53 | 3 | 2 | ALIVE | A | 162 | |
| LT6 | 10:35 | 10:37 | 2 | 2 | ALIVE | A | 170 | |
| LT7 | 10:42 | 10:44 | 2 | 2 | ALIVE | A | 183 | |
| LT8 | 10:48 | 10:50 | 2 | 2 | ALIVE | A | 154 | |
| LT9 | 10:41 | 10:42 | 1 | 2 | ALIVE | A | 149 | |
| LU0 | 10:37 | 10:40 | 3 | 2 | ALIVE | A | 150 | |
| LU1 | 10:48 | 10:54 | 6 | 2 | ALIVE | A | 140 | |
| LU2 | 10:43 | 10:47 | 4 | 2 | ALIVE | A | 139 | |
| LU3 | 10:38 | 10:41 | 3 | 2 | ALIVE | A | 164 | |
| LU4 | 10:33 | 10:36 | 3 | 2 | ALIVE | A | 134 | |
| LU5 | 11:08 | 11:10 | 2 | 2 | ALIVE | A | 151 | |
| LU6 | 11:06 | 11:08 | 2 | 2 | ALIVE | A | 186 | |
| LU7 | 11:10 | 11:11 | 1 | 2 | ALIVE | A | 139 | |
| LU8 | 11:11 | 11:14 | 3 | 2 | ALIVE | A | 136 | |
| LU9 | 11:07 | 11:17 | 10 | 2 | ALIVE | A | 159 | |
| LV0 | 11:18 | 15:30 | 252 | 2 | ALIVE | A | 143 | |
| LV1 | 11:17 | 11:18 | 1 | 2 | ALIVE | A | 201 | |
| LV2 | 11:16 | 11:17 | 1 | 2 | ALIVE | A | 205 | |
| LV3 | 11:20 | 11:25 | 5 | 2 | ALIVE | A | 147 | |
| LV4 | 11:13 | 11:15 | 2 | 2 | ALIVE | A | 163 | |
| LV5 | 11:31 | 11:33 | 2 | 2 | ALIVE | A | 153 | |
| LV6 | 11:26 | 11:32 | 6 | 2 | ALIVE | A | 135 | |
| LV7 | 11:28 | 15:30 | 242 | 2 | ALIVE | A | 134 | |
| LV8 | 11:21 | 15:30 | 249 | 2 | ALIVE | A | 151 | |
| LV9 | 11:27 | 11:31 | 4 | 2 | ALIVE | A | 144 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LW0 | 11:43 | 12:03 | 20 | 2 | ALIVE | A | 144 |
| LW1 | 11:38 | 11:41 | 3 | 2 | ALIVE | A | 168 |
| LW2 | 11:45 | 12:09 | 24 | 2 | ALIVE | A | 147 |
| LW3 | 11:39 | 11:41 | 2 | 2 | ALIVE | A | 150 |
| LW4 | 11:35 | 11:37 | 2 | 2 | ALIVE | A | 176 |
| LW5 | 12:14 | 12:22 | 8 | 2 | ALIVE | A | 142 |
| LW6 | 12:12 | 12:18 | 6 | 2 | ALIVE | A | 205 |
| LW7 | 12:19 | 12:50 | 31 | 2 | ALIVE | A | 156 |
| LW8 | 12:13 | 12:17 | 4 | 2 | ALIVE | A | 156 |
| LW9 | 12:20 | 12:22 | 2 | 2 | ALIVE | A | 137 |
| LX0 | 12:46 | 12:48 | 2 | 2 | ALIVE | A | 144 |
| LX1 | 12:24 | 12:38 | 14 | 1 | DEAD | EB | 136 |
| LX2 | 12:35 | . | . | 0 | TAG & PIN | | 160 |
| LX3 | 12:23 | 12:34 | 11 | 2 | ALIVE | A | 190 |
| LX4 | 12:38 | 12:45 | 7 | 2 | ALIVE | A | 159 |
| LX5 | 12:50 | 12:54 | 4 | 2 | ALIVE | A | 202 |
| LX6 | 13:06 | 13:08 | 2 | 2 | ALIVE | A | 165 |
| LX7 | 12:58 | 13:08 | 10 | 2 | ALIVE | A | 200 |
| LX8 | 12:55 | 13:05 | 10 | 2 | ALIVE | A | 155 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| LX9 | 13:08 | 13:11 | 3 | 2 | ALIVE | A | 155 | |
| LY0 | 13:12 | 13:13 | 1 | 2 | ALIVE | A | 147 | |
| LY1 | 13:18 | 13:27 | 9 | 2 | ALIVE | A | 159 | |
| LY2 | 13:15 | 15:30 | 135 | 2 | ALIVE | A | 175 | |
| LY3 | 13:10 | 13:20 | 10 | 2 | ALIVE | A | 148 | |
| LY4 | 13:14 | 13:17 | 3 | 2 | ALIVE | A | 145 | |
| LY5 | 13:47 | 13:51 | 4 | 2 | ALIVE | A | 145 | |
| LY6 | 14:05 | 14:09 | 4 | 2 | ALIVE | A | 136 | |
| LY7 | 13:41 | 13:45 | 4 | 2 | ALIVE | A | 204 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LY8 | 13:53 | 14:09 | 16 | 2 | ALIVE | A | 148 |
| LY9 | 13:56 | 14:02 | 6 | 2 | ALIVE | A | 147 |
| LZ0 | 13:28 | 13:30 | 2 | 2 | ALIVE | A | 139 |
| LZ1 | 13:21 | 13:33 | 12 | 2 | ALIVE | A | 144 |
| LZ2 | 11:58 | 12:00 | 2 | 2 | ALIVE | A | 140 |
| LZ3 | 11:52 | 11:57 | 5 | 2 | ALIVE | A | 164 |
| LZ4 | 10:35 | 10:38 | 3 | 2 | ALIVE | A | 132 |
| LZ5 | 11:49 | 11:51 | 2 | 2 | ALIVE | A | 152 |
| LZ6 | 11:34 | 11:38 | 4 | 2 | ALIVE | A | 143 |

14 January 2000 - Testlot 46 : PL=2, Unit 5, Mid - Water temp=41.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| L10 | 7:55 | 8:09 | 14 | 2 | ALIVE | A | 151 |
| L11 | 7:46 | 8:00 | 14 | 2 | ALIVE | A | 150 |
| L12 | 7:48 | 7:54 | 6 | 2 | ALIVE | A | 198 |
| L13 | 7:56 | 8:04 | 8 | 2 | ALIVE | A | 190 |
| L14 | 7:47 | 7:54 | 7 | 2 | ALIVE | A | 144 |
| L15 | 8:12 | 8:14 | 2 | 2 | ALIVE | A | 163 |
| L16 | 8:02 | 8:07 | 5 | 2 | ALIVE | A | 166 |
| L17 | 8:11 | 8:20 | 9 | 2 | ALIVE | A | 138 |
| L18 | 8:08 | 8:17 | 9 | 2 | ALIVE | A | 145 |
| L19 | 8:06 | 8:10 | 4 | 2 | ALIVE | A | 140 |
| L20 | 8:17 | 8:21 | 4 | 2 | ALIVE | A | 151 |
| L21 | 8:15 | 8:19 | 4 | 2 | ALIVE | A | 139 |
| L22 | 8:21 | 8:37 | 16 | 2 | ALIVE | A | 146 |
| L23 | 8:19 | 8:33 | 14 | 2 | ALIVE | A | 144 |
| L24 | 8:20 | 8:29 | 9 | 2 | ALIVE | A | 135 |
| L25 | 8:39 | 8:43 | 4 | 2 | ALIVE | A | 143 |
| L26 | 8:43 | 8:50 | 7 | 2 | ALIVE | A | 138 |
| L27 | 8:33 | 8:44 | 11 | 2 | ALIVE | A | 143 |
| L28 | 8:37 | 8:44 | 7 | 2 | ALIVE | A | 171 |
| L29 | 8:29 | 8:39 | 10 | 2 | ALIVE | A | 207 |
| L30 | 8:50 | 8:58 | 8 | 2 | ALIVE | A | 149 |
| L31 | 8:48 | 8:51 | 3 | 2 | ALIVE | A | 202 |
| L32 | 8:45 | 8:48 | 3 | 2 | ALIVE | A | 166 |
| L33 | 8:46 | 8:50 | 4 | 2 | ALIVE | A | 197 |
| L34 | 8:51 | . | . | 0 | TAG & PIN | | 156 |
| L35 | 9:23 | 9:25 | 2 | 2 | ALIVE | A | 202 |
| L36 | 9:34 | 9:40 | 6 | 2 | ALIVE | A | 140 |
| L37 | 9:06 | 9:12 | 6 | 2 | ALIVE | A | 148 |
| L38 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 144 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| L40 | 9:29 | 9:32 | 3 | 2 | ALIVE | A | 156 | |
| L41 | 9:28 | 9:34 | 6 | 2 | ALIVE | A | 194 | |
| L42 | 9:21 | 9:23 | 2 | 2 | ALIVE | A | 156 | |
| L43 | 9:10 | 9:14 | 4 | 2 | ALIVE | A | 184 | |
| L44 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 195 | |
| L45 | 9:25 | 9:27 | 2 | 2 | ALIVE | A | 142 | |
| L46 | 9:17 | 9:19 | 2 | 2 | ALIVE | A | 145 | |
| L47 | 9:27 | 9:29 | 2 | 2 | ALIVE | A | 140 | |
| L48 | 9:09 | 9:12 | 3 | 2 | ALIVE | A | 142 | |
| L49 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 155 | |
| L50 | 10:23 | 10:28 | 5 | 2 | ALIVE | A | 185 | |
| L51 | 10:00 | 10:27 | 27 | 2 | ALIVE | A | 199 | |
| L52 | 9:59 | 10:11 | 12 | 1 | ALIVE | B | 146 | |
| L54 | 10:28 | 10:48 | 20 | 2 | ALIVE | A | 142 | |
| L55 | 10:35 | 10:42 | 7 | 2 | ALIVE | A | 193 | |
| L56 | 10:31 | 10:35 | 4 | 2 | ALIVE | A | 140 | |
| L57 | 10:42 | 10:47 | 5 | 2 | ALIVE | A | 161 | |
| L58 | 10:48 | 10:51 | 3 | 2 | ALIVE | A | 145 | |
| L59 | 10:49 | . | . | 0 | DEAD | Z | 145 | |
| L60 | 10:51 | 10:54 | 3 | 2 | ALIVE | A | 201 | |
| L61 | 10:52 | 10:56 | 4 | 2 | ALIVE | A | 204 | |
| L62 | 10:55 | 11:01 | 6 | 2 | ALIVE | A | 185 | |
| L63 | 11:01 | 11:05 | 4 | 2 | ALIVE | A | 205 | |
| L64 | 10:56 | 11:00 | 4 | 2 | ALIVE | A | 138 | |
| L65 | 11:13 | 11:26 | 13 | 2 | ALIVE | A | 206 | |
| L66 | 11:09 | 11:13 | 4 | 2 | ALIVE | A | 195 | |
| L67 | 11:03 | 11:08 | 5 | 2 | ALIVE | A | 203 | |
| L68 | 11:06 | 11:18 | 12 | 2 | ALIVE | A | 206 | |
| L69 | 11:12 | 11:17 | 5 | 2 | ALIVE | A | 164 | |
| L70 | 11:34 | 11:38 | 4 | 2 | ALIVE | A | 205 | |
| L71 | 11:32 | 11:49 | 17 | 2 | DEAD | F | 147 | |
| L72 | 11:38 | 11:43 | 5 | 2 | ALIVE | A | 194 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| L73 | 11:35 | 11:39 | 4 | 2 | ALIVE | A | 198 |
| L74 | 11:33 | 11:35 | 2 | 2 | ALIVE | A | 148 |
| L75 | 11:46 | 12:12 | 26 | 2 | ALIVE | A | 136 |
| L77 | 11:41 | 11:45 | 4 | 2 | ALIVE | A | 137 |
| L78 | 11:44 | 15:30 | 226 | 2 | ALIVE | A | 144 |
| L79 | 11:56 | 12:04 | 8 | 2 | ALIVE | A | 147 |
| L80 | 12:17 | 12:19 | 2 | 2 | ALIVE | A | 172 |
| L82 | 12:09 | 12:16 | 7 | 2 | ALIVE | A | 183 |
| L83 | 12:16 | 12:19 | 3 | 2 | ALIVE | A | 138 |
| L84 | 12:06 | 12:07 | 1 | 2 | ALIVE | A | 185 |
| L85 | 12:24 | 12:27 | 3 | 2 | ALIVE | A | 149 |
| L86 | 12:26 | 12:30 | 4 | 2 | ALIVE | A | 152 |
| L87 | 12:28 | 12:32 | 4 | 2 | ALIVE | A | 149 |
| L88 | 12:21 | 12:23 | 2 | 2 | ALIVE | A | 195 |
| L89 | 12:20 | 12:23 | 3 | 2 | ALIVE | A | 160 |
| L90 | 12:45 | 12:49 | 4 | 2 | ALIVE | A | 186 |
| L91 | 12:38 | 12:45 | 7 | 2 | ALIVE | A | 146 |
| L93 | 12:58 | 13:06 | 8 | 2 | ALIVE | A | 150 |
| L94 | 12:55 | 12:57 | 2 | 2 | ALIVE | A | 148 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| L95 | 13:39 | 13:41 | 2 | 2 | ALIVE | A | 181 | |
| L96 | 13:28 | 13:38 | 10 | 2 | ALIVE | A | 205 | |
| L97 | 13:14 | 13:20 | 6 | 2 | ALIVE | A | 181 | |
| L98 | 13:42 | 13:45 | 3 | 2 | ALIVE | A | 178 | |
| L99 | 13:13 | 13:19 | 6 | 2 | ALIVE | A | 160 | |
| LT1 | 13:22 | 13:24 | 2 | 2 | ALIVE | A | 150 | |
| LV8 | 11:17 | 11:21 | 4 | 2 | ALIVE | A | 190 | |
| X00 | 13:12 | 13:13 | 1 | 2 | ALIVE | A | 145 | |
| X02 | 13:21 | 13:27 | 6 | 2 | ALIVE | A | 145 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| X03 | 13:19 | 13:21 | 2 | 2 | ALIVE | A | 191 |
| X04 | 13:32 | 13:47 | 15 | 2 | ALIVE | A | 135 |
| X05 | 13:13 | 13:36 | 23 | 2 | ALIVE | A | 147 |
| X06 | 13:42 | 13:46 | 4 | 2 | ALIVE | A | 155 |
| X07 | 13:27 | 13:32 | 5 | 2 | ALIVE | A | 158 |
| X08 | 13:24 | 13:27 | 3 | 2 | ALIVE | A | 133 |
| X09 | 13:38 | 13:41 | 3 | 2 | ALIVE | A | 152 |
| X10 | 13:41 | 13:51 | 10 | 2 | ALIVE | A | 138 |
| X11 | 14:02 | 14:04 | 2 | 2 | ALIVE | A | 154 |
| X12 | 14:01 | 14:04 | 3 | 2 | ALIVE | A | 183 |
| X13 | 14:05 | 14:07 | 2 | 2 | ALIVE | A | 202 |
| X14 | 14:00 | 14:01 | 1 | 2 | ALIVE | A | 144 |
| X15 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 148 |
| X16 | 14:06 | 14:08 | 2 | 2 | ALIVE | A | 182 |
| X17 | 14:09 | 14:10 | 1 | 2 | ALIVE | A | 184 |
| X18 | 14:09 | 14:12 | 3 | 2 | ALIVE | A | 139 |
| X19 | 14:11 | 14:15 | 4 | 2 | ALIVE | A | 149 |
| X20 | 14:07 | 14:09 | 2 | 2 | ALIVE | A | 145 |
| X21 | 14:23 | 14:26 | 3 | 2 | ALIVE | A | 131 |
| X22 | 14:16 | 14:27 | 11 | 2 | ALIVE | A | 135 |
| X23 | 14:14 | 14:24 | 10 | 2 | ALIVE | A | 197 |
| X24 | 14:12 | 14:22 | 10 | 2 | ALIVE | A | 206 |
| X26 | 14:35 | 14:40 | 5 | 2 | ALIVE | A | 146 |
| X27 | 14:26 | 14:30 | 4 | 2 | ALIVE | A | 148 |
| X28 | 14:28 | 14:30 | 2 | 2 | ALIVE | A | 146 |
| X29 | 14:34 | 14:38 | 4 | 2 | ALIVE | A | 205 |
| X30 | 14:32 | 14:35 | 3 | 2 | ALIVE | A | 175 |
| X96 | 14:49 | 14:52 | 3 | 2 | ALIVE | A | 198 |
| X97 | 14:32 | 14:37 | 5 | 2 | ALIVE | A | 205 |
| X98 | 12:49 | 12:54 | 5 | 2 | ALIVE | A | 164 |
| X99 | 12:33 | 12:38 | 5 | 2 | ALIVE | A | 194 |

15 January 2000 - Testlot 47 : PL=4, Unit 5, Mid - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| X31 | 7:36 | 7:51 | 15 | 2 | ALIVE | A | 140 |
| X32 | 7:35 | 7:52 | 17 | 2 | ALIVE | A | 191 |
| X33 | 7:52 | 7:56 | 4 | 1 | DEAD | FB | 150 |
| X34 | 7:48 | 7:54 | 6 | 2 | ALIVE | A | 156 |
| X35 | 7:34 | 7:48 | 14 | 2 | ALIVE | A | 143 |
| X36 | 8:05 | 8:29 | 24 | 2 | ALIVE | A | 168 |
| X37 | 7:56 | 8:04 | 8 | 2 | ALIVE | A | 208 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| X38 | 8:00 | 8:10 | 10 | 2 | ALIVE | A | 141 | |
| X39 | 7:58 | 8:07 | 9 | 2 | ALIVE | A | 152 | |
| X40 | 7:56 | 8:00 | 4 | 2 | ALIVE | A | 145 | |
| X41 | 8:24 | 8:33 | 9 | 2 | ALIVE | A | 140 | |
| X42 | 8:12 | 8:40 | 28 | 2 | ALIVE | A | 207 | |
| X43 | 8:32 | 8:34 | 2 | 2 | ALIVE | A | 168 | |
| X44 | 8:14 | 8:21 | 7 | 1 | ALIVE | H | 139 | |
| X45 | 8:09 | 8:13 | 4 | 2 | ALIVE | A | 144 | |
| X46 | 8:39 | 9:03 | 24 | 2 | ALIVE | A | 134 | |
| X47 | 8:36 | 8:39 | 3 | 2 | ALIVE | A | 139 | |
| X48 | 8:41 | 9:15 | 34 | 2 | ALIVE | A | 176 | |
| X49 | 8:35 | 8:37 | 2 | 2 | ALIVE | A | 136 | |
| X50 | 8:37 | 9:01 | 24 | 2 | ALIVE | A | 144 | |
| X51 | 9:23 | 9:26 | 3 | 2 | ALIVE | A | 158 | |
| X52 | 9:03 | 9:09 | 6 | 2 | ALIVE | A | 144 | |
| X53 | 9:22 | 9:26 | 4 | 2 | ALIVE | A | 143 | |
| X54 | 9:11 | 9:15 | 4 | 2 | ALIVE | A | 179 | |
| X55 | 9:05 | 9:28 | 23 | 2 | ALIVE | A | 205 | |
| X56 | 10:03 | 10:08 | 5 | 2 | ALIVE | A | 205 | |
| X57 | 10:08 | 10:09 | 1 | 2 | ALIVE | A | 147 | |
| X58 | 10:02 | 10:04 | 2 | 2 | ALIVE | A | 207 | |
| X59 | 9:57 | 10:01 | 4 | 2 | ALIVE | A | 152 | |
| X60 | 9:57 | 10:02 | 5 | 2 | ALIVE | A | 206 | |
| X61 | 9:58 | 10:01 | 3 | 2 | ALIVE | A | 152 | |
| X62 | 10:06 | 10:07 | 1 | 2 | ALIVE | A | 144 | |
| X63 | 10:04 | 10:11 | 7 | 2 | ALIVE | A | 153 | |
| X64 | 9:51 | 9:53 | 2 | 2 | ALIVE | A | 205 | |
| X65 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 146 | |
| X66 | 9:46 | 9:56 | 10 | 2 | ALIVE | A | 152 | |
| X67 | 9:54 | 9:56 | 2 | 2 | ALIVE | A | 168 | |
| X68 | 9:54 | 9:56 | 2 | 2 | ALIVE | A | 167 | |
| X69 | 10:03 | 10:05 | 2 | 2 | ALIVE | A | 149 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| X70 | 9:47 | 9:53 | 6 | 2 | ALIVE | A | 199 |
| X71 | 9:28 | 9:32 | 4 | 2 | ALIVE | A | 208 |
| X72 | 9:35 | 9:38 | 3 | 2 | ALIVE | A | 141 |
| X73 | 9:32 | 9:39 | 7 | 2 | ALIVE | A | 155 |
| X74 | 9:27 | 9:33 | 6 | 2 | ALIVE | A | 145 |
| X75 | 9:33 | 9:39 | 6 | 2 | ALIVE | A | 142 |
| X76 | 10:21 | 10:41 | 20 | 2 | ALIVE | A | 196 |
| X77 | 10:37 | 10:42 | 5 | 2 | ALIVE | A | 158 |
| X78 | 10:22 | 10:35 | 13 | 2 | ALIVE | A | 197 |
| X79 | 10:23 | 10:34 | 11 | 2 | ALIVE | A | 193 |
| X80 | 10:35 | 10:50 | 15 | 2 | ALIVE | A | 206 |
| X81 | 10:49 | 10:55 | 6 | 2 | ALIVE | A | 195 |
| X82 | 10:53 | 10:54 | 1 | 2 | ALIVE | A | 176 |
| X83 | 10:54 | 10:54 | 0 | 2 | ALIVE | A | 141 |
| X84 | 10:48 | 10:51 | 3 | 2 | ALIVE | A | 149 |
| X85 | 10:51 | 10:52 | 1 | 2 | ALIVE | A | 200 |
| X86 | 11:01 | 11:12 | 11 | 2 | ALIVE | A | 153 |
| X87 | 10:57 | 10:58 | 1 | 2 | ALIVE | A | 141 |
| X88 | 11:00 | 11:07 | 7 | 2 | ALIVE | A | 134 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| X89 | 10:58 | 11:00 | 2 | 2 | ALIVE | A | 189 | |
| X90 | 10:56 | 10:59 | 3 | 2 | ALIVE | A | 197 | |
| X91 | 14:44 | 14:50 | 6 | 2 | ALIVE | A | 152 | |
| XA0 | 11:02 | 11:05 | 3 | 2 | ALIVE | A | 149 | |
| XA1 | 11:05 | 11:10 | 5 | 2 | ALIVE | A | 200 | |
| XA2 | 11:07 | 11:14 | 7 | 2 | ALIVE | A | 150 | |
| XA3 | 11:13 | 11:21 | 8 | 2 | ALIVE | A | 153 | |
| XA4 | 11:11 | 11:15 | 4 | 2 | ALIVE | A | 171 | |
| XA5 | 11:28 | 11:37 | 9 | 2 | ALIVE | A | 143 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XA6 | 11:26 | 11:33 | 7 | 2 | ALIVE | A | 144 |
| XA7 | 11:25 | 11:29 | 4 | 2 | ALIVE | A | 182 |
| XA8 | 11:24 | 11:28 | 4 | 2 | ALIVE | A | 200 |
| XA9 | 11:30 | 11:58 | 28 | 2 | ALIVE | A | 141 |
| XB0 | 11:50 | 12:11 | 21 | 2 | ALIVE | A | 141 |
| XB1 | 11:47 | 11:54 | 7 | 2 | ALIVE | A | 153 |
| XB2 | 11:42 | 11:46 | 4 | 2 | ALIVE | A | 172 |
| XB3 | 11:46 | 11:49 | 3 | 2 | ALIVE | A | 150 |
| XB4 | 11:40 | 11:45 | 5 | 2 | ALIVE | A | 205 |
| XB5 | 12:12 | 12:15 | 3 | 2 | ALIVE | A | 144 |
| XB6 | 12:04 | 12:21 | 17 | 2 | ALIVE | A | 156 |
| XB7 | 12:03 | 12:05 | 2 | 2 | ALIVE | A | 155 |
| XB8 | 11:55 | 12:03 | 8 | 2 | ALIVE | A | 145 |
| XB9 | 12:06 | 12:22 | 16 | 2 | ALIVE | A | 153 |
| XC0 | 12:24 | 12:32 | 8 | 2 | ALIVE | A | 144 |
| XC1 | 12:32 | 12:36 | 4 | 2 | ALIVE | A | 192 |
| XC2 | 12:16 | 12:52 | 36 | 2 | ALIVE | A | 198 |
| XC3 | 12:23 | 12:46 | 23 | 2 | ALIVE | A | 196 |
| XC4 | 12:21 | 12:24 | 3 | 2 | ALIVE | A | 153 |
| XC5 | 13:10 | 13:35 | 25 | 2 | ALIVE | A | 203 |
| XC6 | 13:28 | 13:33 | 5 | 2 | ALIVE | A | 151 |
| XC7 | 13:14 | 13:15 | 1 | 2 | ALIVE | A | 137 |
| XC8 | 13:09 | 13:12 | 3 | 2 | ALIVE | A | 135 |
| XC9 | 13:16 | 13:23 | 7 | 2 | ALIVE | A | 145 |
| XD0 | 13:23 | 13:24 | 1 | 2 | ALIVE | A | 190 |
| XD1 | 13:26 | 13:30 | 4 | 2 | ALIVE | A | 190 |
| XD2 | 13:31 | 13:37 | 6 | 2 | ALIVE | A | 154 |
| XD3 | 13:17 | 13:18 | 1 | 2 | ALIVE | A | 151 |
| XD4 | 13:25 | 13:27 | 2 | 2 | ALIVE | A | 148 |
| XD5 | 12:57 | 13:14 | 17 | 2 | ALIVE | A | 201 |
| XD6 | 12:56 | 13:08 | 12 | 2 | ALIVE | A | 157 |
| XD7 | 13:02 | 13:07 | 5 | 2 | ALIVE | A | 136 |
| XD8 | 12:58 | 13:01 | 3 | 2 | ALIVE | A | 147 |
| XD9 | 13:18 | 13:21 | 3 | 2 | ALIVE | A | 153 |
| XE0 | 13:56 | 13:59 | 3 | 2 | ALIVE | A | 153 |
| XE1 | 13:54 | 14:01 | 7 | 2 | ALIVE | A | 152 |
| XE2 | 13:59 | 14:06 | 7 | 2 | ALIVE | A | 156 |
| XE3 | 14:02 | 14:09 | 7 | 2 | ALIVE | A | 160 |
| XE4 | 13:55 | 14:01 | 6 | 2 | ALIVE | A | 145 |
| XE5 | 14:09 | 14:12 | 3 | 2 | ALIVE | A | 157 |
| XE6 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 152 |
| XE7 | 14:07 | 14:10 | 3 | 2 | ALIVE | A | 140 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| XE8 | 14:08 | . | . | 0 | UNKNOWN | X | 141 | |
| XF0 | 14:19 | 14:22 | 3 | 2 | ALIVE | A | 147 | |
| XF1 | 14:15 | 14:19 | 4 | 2 | ALIVE | A | 194 | |
| XF2 | 14:22 | 14:24 | 2 | 2 | ALIVE | A | 140 | |
| XF3 | 14:18 | 14:22 | 4 | 2 | ALIVE | A | 206 | |
| XF4 | 14:13 | 14:15 | 2 | 2 | ALIVE | A | 165 | |
| XF5 | 14:50 | 15:02 | 12 | 2 | ALIVE | A | 139 | |
| XF6 | 14:24 | 14:46 | 22 | 2 | ALIVE | A | 190 | |
| XF7 | 14:46 | 15:07 | 21 | 2 | ALIVE | A | 166 | |
| XF8 | 14:23 | 14:39 | 16 | 2 | ALIVE | A | 192 | |
| XF9 | 14:47 | 14:56 | 9 | 2 | ALIVE | A | 161 | |
| 17 January 2000 - Testlot 48 : PL=2, Unit 5, Hub - Water temp=41.0 C | | | | | | | | |
| X92 | 14:16 | 14:19 | 3 | 2 | ALIVE | A | 145 | |
| XJ5 | 8:36 | 8:39 | 3 | 2 | ALIVE | A | 155 | |
| XJ6 | 8:25 | 8:28 | 3 | 2 | ALIVE | A | 160 | |
| XJ7 | 8:28 | 8:32 | 4 | 2 | ALIVE | A | 150 | |
| XJ8 | 8:22 | 8:26 | 4 | 2 | ALIVE | A | 182 | |
| XJ9 | 8:23 | 8:32 | 9 | 2 | ALIVE | A | 161 | |
| XK0 | 8:34 | 8:40 | 6 | 2 | ALIVE | A | 150 | |
| XK1 | 8:17 | 8:20 | 3 | 2 | ALIVE | A | 146 | |
| XK2 | 8:18 | 8:23 | 5 | 2 | ALIVE | A | 147 | |
| XK3 | 8:32 | 8:34 | 2 | 2 | ALIVE | A | 139 | |
| XK4 | 8:31 | 8:37 | 6 | 2 | ALIVE | H | 148 | |
| XK5 | 8:24 | 8:29 | 5 | 2 | ALIVE | A | 151 | |
| XK6 | 8:33 | 8:37 | 4 | 2 | ALIVE | A | 140 | |
| XK7 | 8:29 | 8:31 | 2 | 2 | ALIVE | A | 158 | |
| XK8 | 8:18 | 8:22 | 4 | 2 | ALIVE | A | 137 | |
| XK9 | 8:20 | 8:30 | 10 | 2 | ALIVE | A | 151 | |
| XL0 | 9:08 | 9:09 | 1 | 2 | ALIVE | A | 141 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XL1 | 9:07 | 9:10 | 3 | 2 | ALIVE | H | 135 |
| XL2 | 9:07 | 9:09 | 2 | 2 | DEAD | | 165 |
| XL3 | 9:11 | 9:22 | 11 | 2 | ALIVE | A | 150 |
| XL4 | 9:11 | 9:35 | 24 | 2 | ALIVE | A | 151 |
| XL5 | 9:29 | 9:34 | 5 | 2 | ALIVE | A | 140 |
| XL6 | 9:13 | 9:16 | 3 | 2 | ALIVE | A | 142 |
| XL7 | 9:17 | 9:20 | 3 | 2 | ALIVE | A | 139 |
| XL8 | 9:23 | . | . | 0 | TAG & PIN | | 144 |
| XL9 | 9:22 | 9:29 | 7 | 2 | ALIVE | A | 155 |
| XM0 | 10:30 | 10:36 | 6 | 2 | ALIVE | A | 166 |
| XM1 | 10:25 | 10:49 | 24 | 2 | ALIVE | A | 167 |
| XM2 | 10:32 | 10:35 | 3 | 2 | ALIVE | A | 190 |
| XM3 | 10:25 | 10:31 | 6 | 2 | ALIVE | A | 156 |
| XM4 | 10:36 | 10:47 | 11 | 2 | ALIVE | A | 168 |
| XM5 | 10:48 | 10:54 | 6 | 2 | ALIVE | A | 143 |
| XM6 | 10:54 | 11:06 | 12 | 2 | ALIVE | A | 137 |
| XM7 | 10:49 | 11:08 | 19 | 2 | ALIVE | A | 154 |
| XM8 | 10:50 | 11:03 | 13 | 2 | ALIVE | A | 136 |
| XM9 | 10:38 | 10:48 | 10 | 2 | ALIVE | A | 162 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| XN0 | 11:05 | 11:07 | 2 | 2 | ALIVE | A | 164 | |
| XN1 | 11:09 | 11:20 | 11 | 2 | ALIVE | A | 147 | |
| XN2 | 11:08 | 11:26 | 18 | 2 | ALIVE | A | 153 | |
| XN3 | 11:30 | 11:34 | 4 | 2 | ALIVE | A | 162 | |
| XN4 | 11:08 | 11:11 | 3 | 2 | ALIVE | A | 137 | |
| XN5 | 11:24 | 11:26 | 2 | 2 | ALIVE | A | 140 | |
| XN6 | 11:16 | 11:22 | 6 | 2 | ALIVE | A | 153 | |
| XN7 | 11:27 | 11:29 | 2 | 2 | ALIVE | A | 150 | |
| XN8 | 11:13 | 11:14 | 1 | 2 | ALIVE | A | 142 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XP0 | 11:33 | 11:35 | 2 | 2 | ALIVE | A | 140 |
| XP1 | 11:34 | 11:37 | 3 | 2 | ALIVE | A | 137 |
| XP2 | 11:37 | 11:40 | 3 | 2 | ALIVE | A | 143 |
| XP3 | 11:40 | 11:43 | 3 | 2 | ALIVE | A | 140 |
| XP4 | 11:36 | 11:41 | 5 | 2 | ALIVE | A | 163 |
| XP5 | 12:02 | 12:04 | 2 | 2 | ALIVE | A | 145 |
| XP6 | 11:59 | 12:02 | 3 | 2 | ALIVE | A | 148 |
| XP7 | 12:05 | 12:08 | 3 | 2 | ALIVE | A | 165 |
| XP8 | 12:19 | 12:23 | 4 | 2 | ALIVE | A | 165 |
| XP9 | 12:13 | 12:18 | 5 | 2 | ALIVE | A | 139 |
| XR0 | 12:09 | 12:19 | 10 | 2 | ALIVE | A | 157 |
| XR1 | 11:55 | 11:57 | 2 | 2 | ALIVE | A | 140 |
| XR2 | 11:55 | 12:02 | 7 | 2 | ALIVE | A | 139 |
| XR3 | 12:19 | 12:27 | 8 | 2 | ALIVE | A | 159 |
| XR4 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 135 |
| XR5 | 12:06 | 12:08 | 2 | 2 | ALIVE | A | 141 |
| XR6 | 12:08 | 12:19 | 11 | 2 | ALIVE | A | 140 |
| XR7 | 11:58 | 12:00 | 2 | 2 | ALIVE | A | 165 |
| XR8 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 147 |
| XR9 | 12:00 | 12:02 | 2 | 2 | ALIVE | A | 150 |
| XS0 | 12:38 | 12:40 | 2 | 2 | ALIVE | A | 156 |
| XS1 | 12:40 | 12:43 | 3 | 2 | ALIVE | A | 136 |
| XS2 | 12:40 | 12:45 | 5 | 2 | ALIVE | A | 158 |
| XS3 | 12:41 | 12:42 | 1 | 2 | ALIVE | A | 164 |
| XS4 | 12:43 | 12:48 | 5 | 2 | ALIVE | A | 150 |
| XS5 | 12:49 | 12:51 | 2 | 2 | ALIVE | A | 139 |
| XS6 | 12:52 | 12:57 | 5 | 2 | ALIVE | A | 162 |
| XS7 | 12:54 | 12:57 | 3 | 2 | ALIVE | A | 148 |
| XS8 | 12:47 | 12:52 | 5 | 2 | ALIVE | A | 141 |
| XS9 | 12:45 | 12:53 | 8 | 2 | ALIVE | A | 158 |
| XT0 | 12:55 | 12:59 | 4 | 2 | ALIVE | A | 161 |
| XT1 | 13:01 | 13:09 | 8 | 2 | ALIVE | A | 144 |
| XT2 | 13:00 | 13:06 | 6 | 2 | ALIVE | A | 190 |
| XT3 | 12:57 | 13:19 | 22 | 2 | ALIVE | A | 145 |
| XT4 | 12:58 | 13:00 | 2 | 2 | ALIVE | A | 140 |
| XT5 | 13:09 | 13:40 | 31 | 2 | ALIVE | A | 141 |
| XT6 | 13:06 | 13:12 | 6 | 2 | ALIVE | A | 152 |
| XT7 | 13:21 | 13:25 | 4 | 2 | ALIVE | A | 145 |
| XT8 | 13:13 | 13:20 | 7 | 2 | ALIVE | A | 145 |
| XT9 | 13:22 | 13:25 | 3 | 2 | ALIVE | A | 140 |
| XU0 | 13:48 | 13:51 | 3 | 2 | ALIVE | A | 140 |
| XU1 | 13:44 | 13:49 | 5 | 2 | ALIVE | A | 142 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| XU2 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 106 | |
| XU3 | 13:43 | 13:47 | 4 | 2 | ALIVE | A | 149 | |
| XU4 | 13:48 | 13:50 | 2 | 2 | ALIVE | A | 172 | |
| XU5 | 13:55 | 13:57 | 2 | 2 | ALIVE | A | 158 | |
| XU6 | 13:51 | 13:54 | 3 | 2 | ALIVE | A | 154 | |
| XU7 | 13:56 | 13:58 | 2 | 2 | ALIVE | A | 150 | |
| XU8 | 13:50 | 14:09 | 19 | 2 | ALIVE | A | 135 | |
| XU9 | 13:51 | 13:54 | 3 | 2 | ALIVE | H | 145 | |
| XV0 | 14:02 | 14:08 | 6 | 2 | ALIVE | A | 156 | |
| XV1 | 14:01 | 14:18 | 17 | 2 | ALIVE | A | 150 | |
| XV2 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 151 | |
| XV3 | 13:59 | 14:02 | 3 | 2 | ALIVE | H | 140 | |
| XV4 | 14:09 | 14:15 | 6 | 2 | ALIVE | A | 139 | |
| XV5 | 14:19 | 14:28 | 9 | 2 | ALIVE | A | 140 | |
| XV6 | 14:20 | 14:41 | 21 | 2 | ALIVE | A | 155 | |
| XV7 | 14:11 | 14:13 | 2 | 2 | ALIVE | A | 160 | |
| XV8 | 14:13 | 14:17 | 4 | 2 | ALIVE | A | 170 | |
| XV9 | 14:17 | 14:22 | 5 | 2 | ALIVE | A | 150 | |
| XW0 | 9:39 | 9:44 | 5 | 2 | ALIVE | A | 146 | |
| XW1 | 9:41 | 9:50 | 9 | 2 | ALIVE | A | 133 | |
| XW2 | 9:34 | 9:56 | 22 | 2 | ALIVE | A | 152 | |
| XW3 | 9:29 | 9:35 | 6 | 2 | ALIVE | A | 140 | |
| XW4 | 9:35 | 9:40 | 5 | 2 | ALIVE | A | 151 | |
| XW5 | 9:44 | 9:50 | 6 | 2 | ALIVE | A | 178 | |
| XW6 | 9:52 | 10:05 | 13 | 2 | ALIVE | A | 140 | |
| XW7 | 9:56 | 10:04 | 8 | 2 | ALIVE | A | 141 | |
| XW8 | 9:57 | 10:08 | 11 | 2 | ALIVE | A | 140 | |
| XW9 | 9:51 | 9:55 | 4 | 2 | ALIVE | A | 154 | |
| XX0 | 10:10 | 10:30 | 20 | 2 | ALIVE | A | 160 | |
| XX1 | 10:08 | 10:12 | 4 | 2 | ALIVE | H | 168 | |
| XX2 | 10:05 | 10:07 | 2 | 2 | ALIVE | A | 195 | |
| XX3 | 10:09 | 10:15 | 6 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XX4 | 10:06 | 10:09 | 3 | 2 | ALIVE | A | 163 |
| 18 January 2000 - Testlot 49 : PL=3, Unit 6, Mid - Water temp=41.0 C | | | | | | | |
| E00 | 8:58 | 9:08 | 10 | 2 | ALIVE | A | 142 |
| E01 | 9:12 | 9:19 | 7 | 2 | ALIVE | A | 155 |
| E02 | 9:10 | 9:14 | 4 | 2 | ALIVE | A | 160 |
| E03 | 9:03 | 9:11 | 8 | 2 | ALIVE | A | 176 |
| E04 | 8:55 | 9:03 | 8 | 2 | ALIVE | A | 189 |
| E05 | 9:19 | 9:25 | 6 | 2 | ALIVE | A | 136 |
| E06 | 9:15 | 9:22 | 7 | 2 | ALIVE | A | 136 |
| E07 | 9:18 | . | . | 0 | TAG & PIN | | 151 |
| E08 | 9:26 | 9:30 | 4 | 2 | ALIVE | A | 160 |
| E09 | 9:23 | 9:58 | 35 | 2 | ALIVE | A | 147 |
| E10 | 9:40 | 9:44 | 4 | 2 | ALIVE | A | 142 |
| E11 | 9:32 | 9:35 | 3 | 2 | ALIVE | A | 149 |
| E12 | 9:31 | 9:43 | 12 | 2 | ALIVE | A | 183 |
| E13 | 9:36 | 9:40 | 4 | 2 | ALIVE | A | 145 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| E14 | 9:43 | 9:53 | 10 | 2 | ALIVE | A | 159 | |
| E15 | 10:00 | 10:13 | 13 | 2 | ALIVE | A | 142 | |
| E16 | 9:52 | 9:57 | 5 | 2 | ALIVE | A | 164 | |
| E17 | 9:54 | 9:59 | 5 | 2 | ALIVE | A | 170 | |
| E18 | 9:57 | 10:09 | 12 | 2 | ALIVE | A | 144 | |
| E19 | 9:45 | 10:00 | 15 | 2 | ALIVE | A | 150 | |
| E20 | 10:15 | 10:21 | 6 | 2 | ALIVE | A | 140 | |
| E21 | 10:09 | 10:30 | 21 | 2 | ALIVE | A | 178 | |
| E22 | 10:10 | 10:16 | 6 | 2 | ALIVE | A | 149 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| E23 | 10:02 | 10:08 | 6 | 2 | ALIVE | A | 137 |
| E24 | 10:18 | 10:20 | 2 | 2 | ALIVE | A | 146 |
| E25 | 10:37 | 10:51 | 14 | 2 | ALIVE | A | 133 |
| E26 | 10:50 | 10:56 | 6 | 2 | ALIVE | A | 145 |
| E27 | 10:41 | 10:44 | 3 | 2 | ALIVE | A | 157 |
| E28 | 10:43 | 10:47 | 4 | 2 | ALIVE | A | 137 |
| E29 | 11:01 | 11:05 | 4 | 2 | ALIVE | A | 146 |
| E30 | 10:38 | 10:41 | 3 | 2 | ALIVE | H | 158 |
| E31 | 10:46 | 10:59 | 13 | 2 | ALIVE | A | 162 |
| E32 | 10:45 | 10:46 | 1 | 2 | ALIVE | A | 171 |
| E33 | 10:53 | 10:56 | 3 | 2 | ALIVE | A | 154 |
| E34 | 10:52 | 10:56 | 4 | 2 | ALIVE | A | 149 |
| E35 | 10:36 | 10:43 | 7 | 2 | ALIVE | A | 144 |
| E36 | 11:05 | 11:10 | 5 | 2 | ALIVE | A | 138 |
| E37 | 10:57 | 11:01 | 4 | 2 | ALIVE | A | 138 |
| E38 | 11:01 | 11:04 | 3 | 2 | ALIVE | A | 155 |
| E39 | 10:47 | 10:50 | 3 | 2 | ALIVE | A | 152 |
| E40 | 11:13 | 11:19 | 6 | 2 | ALIVE | A | 155 |
| E41 | 11:14 | 11:30 | 16 | 2 | ALIVE | A | 146 |
| E42 | 11:45 | 11:51 | 6 | 2 | ALIVE | A | 145 |
| E43 | 11:54 | 12:16 | 22 | 2 | ALIVE | A | 156 |
| E44 | 11:50 | 11:53 | 3 | 2 | ALIVE | A | 132 |
| E45 | 11:31 | 11:36 | 5 | 2 | ALIVE | A | 160 |
| E46 | 11:52 | 11:56 | 4 | 2 | ALIVE | A | 137 |
| E47 | 11:19 | 11:55 | 36 | 2 | ALIVE | A | 152 |
| E48 | 11:34 | 11:44 | 10 | 2 | ALIVE | A | 136 |
| E49 | 11:20 | 11:26 | 6 | 2 | ALIVE | A | 135 |
| E50 | 11:26 | 11:32 | 6 | 2 | ALIVE | A | 135 |
| E51 | 11:32 | 11:34 | 2 | 2 | ALIVE | A | 161 |
| E52 | 11:12 | 11:19 | 7 | 2 | ALIVE | A | 150 |
| E53 | 11:42 | 11:50 | 8 | 2 | ALIVE | A | 167 |
| E54 | 11:37 | 11:41 | 4 | 2 | ALIVE | A | 145 |
| E55 | 12:26 | 12:31 | 5 | 2 | ALIVE | A | 156 |
| E56 | 12:23 | 12:32 | 9 | 2 | ALIVE | A | 168 |
| E57 | 12:16 | 12:22 | 6 | 2 | ALIVE | A | 144 |
| E58 | 12:22 | 12:35 | 13 | 2 | ALIVE | A | 141 |
| E59 | 12:16 | 12:19 | 3 | 2 | ALIVE | A | 143 |
| E60 | 12:32 | 12:42 | 10 | 2 | ALIVE | A | 155 |
| E61 | 12:41 | 12:42 | 1 | 2 | ALIVE | A | 163 |
| E62 | 12:33 | 12:41 | 8 | 2 | ALIVE | A | 148 |
| E63 | 12:43 | 12:50 | 7 | 2 | ALIVE | A | 150 |
| E64 | 12:37 | 12:40 | 3 | 2 | ALIVE | A | 145 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| E65 | 12:50 | 13:01 | 11 | 2 | ALIVE | A | 140 | |
| E66 | 12:53 | 13:03 | 10 | 2 | ALIVE | A | 160 | |
| E67 | 12:44 | 12:49 | 5 | 2 | ALIVE | A | 157 | |
| E68 | 12:49 | 12:53 | 4 | 2 | ALIVE | A | 141 | |
| E69 | 12:43 | 12:55 | 12 | 2 | ALIVE | A | 137 | |
| E70 | 13:06 | 13:14 | 8 | 2 | ALIVE | A | 155 | |
| E71 | 12:56 | 13:09 | 13 | 2 | ALIVE | A | 164 | |
| E72 | 13:02 | 13:05 | 3 | 2 | ALIVE | A | 147 | |
| E73 | 13:03 | 13:06 | 3 | 2 | ALIVE | A | 151 | |
| E74 | 13:05 | 13:11 | 6 | 2 | ALIVE | A | 165 | |
| E75 | 13:27 | 13:33 | 6 | 2 | ALIVE | A | 133 | |
| E76 | 13:25 | 13:36 | 11 | 2 | ALIVE | A | 170 | |
| E77 | 13:22 | 13:24 | 2 | 2 | ALIVE | H | 180 | |
| E78 | 13:23 | 13:26 | 3 | 2 | ALIVE | A | 144 | |
| E79 | 13:22 | 13:26 | 4 | 2 | ALIVE | A | 157 | |
| E80 | 13:37 | 13:41 | 4 | 2 | ALIVE | A | 156 | |
| E81 | 13:33 | 13:49 | 16 | 2 | ALIVE | A | 149 | |
| E82 | 13:34 | 13:40 | 6 | 2 | ALIVE | A | 162 | |
| E83 | 13:40 | 13:47 | 7 | 2 | ALIVE | A | 155 | |
| E84 | 13:33 | 13:33 | 0 | 2 | ALIVE | A | 145 | |
| E85 | 13:49 | 13:53 | 4 | 2 | ALIVE | A | 153 | |
| E86 | 13:51 | 13:52 | 1 | 2 | ALIVE | A | 150 | |
| E87 | 13:52 | 13:59 | 7 | 2 | ALIVE | A | 150 | |
| E88 | 13:47 | 13:51 | 4 | 2 | ALIVE | A | 160 | |
| E89 | 13:44 | 13:49 | 5 | 2 | ALIVE | A | 137 | |
| E90 | 14:00 | 14:02 | 2 | 2 | ALIVE | A | 144 | |
| E91 | 13:58 | 14:00 | 2 | 2 | ALIVE | A | 148 | |
| E92 | 13:54 | 13:57 | 3 | 2 | ALIVE | A | 166 | |
| E93 | 13:57 | 14:31 | 34 | 2 | ALIVE | A | 174 | |
| E94 | 13:54 | 13:57 | 3 | 2 | ALIVE | A | 146 | |
| XX5 | 7:33 | 7:45 | 12 | 2 | ALIVE | A | 182 | |
| XX6 | 7:32 | 7:38 | 6 | 2 | ALIVE | A | 180 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XX7 | 7:39 | 7:44 | 5 | 2 | ALIVE | A | 136 |
| XX8 | 7:31 | 7:38 | 7 | 2 | ALIVE | A | 159 |
| XX9 | 7:38 | 7:43 | 5 | 2 | ALIVE | A | 160 |
| XY0 | 7:53 | 7:58 | 5 | 2 | ALIVE | A | 135 |
| XY1 | 7:46 | 7:49 | 3 | 2 | ALIVE | A | 145 |
| XY2 | 7:48 | 7:53 | 5 | 2 | ALIVE | A | 146 |
| XY3 | 7:44 | 7:57 | 13 | 2 | ALIVE | A | 152 |
| XY4 | 7:43 | 7:46 | 3 | 2 | DEAD | F | 151 |
| XY5 | 8:00 | 8:18 | 18 | 2 | ALIVE | A | 149 |
| XY6 | 7:57 | 8:03 | 6 | 2 | ALIVE | A | 145 |
| XY7 | 7:59 | 8:22 | 23 | 2 | ALIVE | A | 169 |
| XY8 | 8:11 | 8:16 | 5 | 2 | ALIVE | A | 132 |
| XY9 | 8:04 | 8:09 | 5 | 2 | ALIVE | A | 185 |
| XZ0 | 8:28 | 8:29 | 1 | 2 | ALIVE | A | 139 |
| XZ1 | 8:18 | 8:19 | 1 | 2 | ALIVE | A | 143 |
| XZ2 | 8:29 | 8:31 | 2 | 2 | ALIVE | A | 165 |
| XZ3 | 8:20 | 8:27 | 7 | 2 | ALIVE | A | 144 |
| XZ4 | 8:24 | 8:26 | 2 | 2 | ALIVE | A | 153 |
| XZ5 | 8:36 | 8:40 | 4 | 2 | ALIVE | A | 171 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| XZ6 | 8:30 | 8:40 | 10 | 2 | ALIVE | A | 156 | |
| XZ7 | 8:40 | 8:55 | 15 | 2 | ALIVE | A | 156 | |
| XZ8 | 8:32 | 8:34 | 2 | 2 | ALIVE | A | 160 | |
| XZ9 | 8:41 | 8:45 | 4 | 2 | ALIVE | A | 164 | |
| 19 January 2000 - Testlot 50 : PL=1, Unit 5, Mid - Water temp=41.0 C | | | | | | | | |
| E95 | 10:34 | 10:47 | 13 | 2 | ALIVE | A | 134 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| E96 | 10:25 | 10:33 | 8 | 2 | ALIVE | A | 150 |
| E97 | 10:36 | 10:39 | 3 | 2 | ALIVE | A | 150 |
| E98 | 10:32 | 10:36 | 4 | 2 | ALIVE | A | 150 |
| E99 | 10:27 | 10:36 | 9 | 2 | ALIVE | A | 161 |
| EA0 | 7:40 | 7:44 | 4 | 2 | ALIVE | A | 140 |
| EA1 | 7:45 | 7:51 | 6 | 2 | DEAD | EN | 147 |
| EA2 | 7:44 | 14:00 | 376 | 2 | ALIVE | TA | 140 |
| EA3 | 7:39 | 7:45 | 6 | 2 | ALIVE | A | 151 |
| EA4 | 7:38 | 7:45 | 7 | 2 | ALIVE | A | 153 |
| EA5 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 132 |
| EA6 | 7:52 | 7:56 | 4 | 2 | ALIVE | A | 156 |
| EA7 | 8:01 | 8:07 | 6 | 2 | ALIVE | A | 138 |
| EA8 | 7:57 | 14:00 | 363 | 2 | ALIVE | TA | 136 |
| EA9 | 7:54 | 8:00 | 6 | 2 | ALIVE | A | 136 |
| EB0 | 8:15 | 14:00 | 345 | 2 | ALIVE | A | 181 |
| EB1 | 8:11 | 8:15 | 4 | 2 | ALIVE | A | 153 |
| EB2 | 8:05 | 8:10 | 5 | 2 | ALIVE | A | 162 |
| EB3 | 8:10 | 8:14 | 4 | 2 | ALIVE | A | 143 |
| EB4 | 8:08 | 14:00 | 352 | 2 | ALIVE | A | 130 |
| EB5 | 8:54 | 9:07 | 13 | 2 | ALIVE | A | 172 |
| EB6 | 8:46 | 8:49 | 3 | 2 | ALIVE | A | 167 |
| EB7 | 8:45 | 8:48 | 3 | 2 | ALIVE | A | 141 |
| EB8 | 8:49 | 8:53 | 4 | 2 | ALIVE | A | 165 |
| EB9 | 8:50 | 8:57 | 7 | 2 | ALIVE | A | 147 |
| EC0 | 9:15 | 9:18 | 3 | 2 | ALIVE | A | 165 |
| EC1 | 9:11 | 9:14 | 3 | 2 | ALIVE | A | 172 |
| EC2 | 9:20 | 9:25 | 5 | 2 | ALIVE | A | 159 |
| EC3 | 9:08 | 9:11 | 3 | 2 | ALIVE | A | 142 |
| EC5 | 9:10 | 9:15 | 5 | 2 | ALIVE | A | 139 |
| EC6 | 9:20 | 9:28 | 8 | 2 | ALIVE | A | 146 |
| EC7 | 9:30 | 9:38 | 8 | 2 | ALIVE | A | 156 |
| EC8 | 9:18 | 9:22 | 4 | 2 | ALIVE | A | 136 |
| EC9 | 9:23 | 9:31 | 8 | 2 | ALIVE | A | 133 |
| ED0 | 10:06 | 10:10 | 4 | 2 | ALIVE | A | 153 |
| ED1 | 10:07 | 10:13 | 6 | 2 | ALIVE | A | 166 |
| ED2 | 10:09 | 10:12 | 3 | 2 | ALIVE | A | 148 |
| ED3 | 9:55 | 10:01 | 6 | 2 | ALIVE | A | 148 |
| ED4 | 10:06 | 10:08 | 2 | 2 | ALIVE | A | 150 |
| ED5 | 9:32 | 9:44 | 12 | 1 | DEAD | E | 152 |
| ED6 | 9:38 | 9:43 | 5 | 2 | ALIVE | A | 146 |
| ED7 | 9:30 | 9:36 | 6 | 2 | ALIVE | A | 156 |
| ED8 | 9:37 | 9:42 | 5 | 2 | ALIVE | A | 146 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| ED9 | 9:45 | 10:01 | 16 | 2 | ALIVE | A | 141 | |
| EE0 | 10:14 | 10:20 | 6 | 2 | ALIVE | C | 176 | |
| EE1 | 10:19 | 10:23 | 4 | 2 | ALIVE | A | 146 | |
| EE2 | 10:13 | 10:19 | 6 | 2 | ALIVE | H | 151 | |
| EE3 | 10:12 | 10:15 | 3 | 2 | ALIVE | A | 140 | |
| EE4 | 10:24 | 10:27 | 3 | 2 | ALIVE | A | 145 | |
| EE5 | 11:21 | 11:24 | 3 | 2 | ALIVE | A | 142 | |
| EE6 | 11:18 | 11:20 | 2 | 2 | ALIVE | A | 166 | |
| EE7 | 11:05 | 11:07 | 2 | 2 | ALIVE | A | 147 | |
| EE8 | 11:03 | 11:17 | 14 | 2 | ALIVE | A | 140 | |
| EE9 | 11:15 | 11:18 | 3 | 2 | ALIVE | A | 146 | |
| EF0 | 11:04 | 11:20 | 16 | 2 | ALIVE | A | 136 | |
| EF1 | 11:23 | 11:29 | 6 | 2 | ALIVE | A | 157 | |
| EF2 | 11:13 | 11:17 | 4 | 2 | ALIVE | A | 160 | |
| EF3 | 11:25 | 11:51 | 26 | 2 | ALIVE | A | 148 | |
| EF4 | 11:43 | 11:47 | 4 | 2 | ALIVE | A | 137 | |
| EF5 | 11:30 | 11:42 | 12 | 2 | ALIVE | A | 139 | |
| EF6 | 11:23 | 11:36 | 13 | 2 | ALIVE | A | 157 | |
| EF7 | 11:09 | 11:14 | 5 | 2 | ALIVE | A | 134 | |
| EF8 | 11:03 | 11:04 | 1 | 2 | ALIVE | A | 130 | |
| EF9 | 11:20 | 11:22 | 2 | 2 | ALIVE | A | 135 | |
| EH0 | 12:07 | 12:08 | 1 | 2 | ALIVE | A | 157 | |
| EH1 | 12:13 | 12:23 | 10 | 2 | ALIVE | A | 162 | |
| EH2 | 11:45 | 11:55 | 10 | 2 | ALIVE | A | 157 | |
| EH3 | 12:17 | 12:20 | 3 | 2 | ALIVE | A | 146 | |
| EH4 | 11:53 | 11:54 | 1 | 2 | ALIVE | TA | 142 | |
| EH5 | 11:38 | 11:41 | 3 | 2 | ALIVE | A | 140 | |
| EH6 | 12:03 | 12:05 | 2 | 2 | ALIVE | A | 137 | |
| EH7 | 11:48 | 11:51 | 3 | 2 | ALIVE | A | 144 | |
| EH8 | 11:58 | 12:02 | 4 | 2 | ALIVE | A | 142 | |
| EH9 | 12:07 | 12:15 | 8 | 2 | ALIVE | A | 132 | |
| EJ0 | 12:05 | 12:22 | 17 | 2 | ALIVE | A | 146 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EJ1 | 11:56 | 12:03 | 7 | 2 | ALIVE | A | 137 |
| EJ2 | 12:01 | 12:04 | 3 | 2 | ALIVE | A | 157 |
| EJ3 | 11:58 | 12:00 | 2 | 2 | ALIVE | A | 147 |
| EJ4 | 12:08 | 12:11 | 3 | 2 | ALIVE | A | 146 |
| EJ5 | 12:41 | 13:03 | 22 | 2 | ALIVE | A | 146 |
| EJ6 | 12:35 | 12:40 | 5 | 2 | ALIVE | A | 148 |
| EJ7 | 12:42 | 12:50 | 8 | 2 | ALIVE | A | 171 |
| EJ8 | 12:38 | 12:41 | 3 | 2 | ALIVE | A | 160 |
| EJ9 | 12:39 | 12:44 | 5 | 2 | ALIVE | A | 142 |
| EK0 | 12:49 | 12:54 | 5 | 2 | ALIVE | A | 131 |
| EK1 | 12:45 | 12:49 | 4 | 2 | ALIVE | A | 132 |
| EK2 | 12:56 | 12:59 | 3 | 2 | ALIVE | A | 142 |
| EK3 | 12:55 | 12:59 | 4 | 2 | ALIVE | A | 170 |
| EK4 | 12:51 | 12:55 | 4 | 2 | ALIVE | A | 142 |
| EK5 | 13:25 | 13:34 | 9 | 2 | ALIVE | A | 147 |
| EK7 | 13:33 | 13:40 | 7 | 2 | ALIVE | A | 144 |
| EK8 | 13:27 | 13:31 | 4 | 2 | ALIVE | A | 135 |
| EK9 | 13:33 | 13:39 | 6 | 2 | ALIVE | A | 153 |
| EL0 | 13:40 | 13:44 | 4 | 2 | ALIVE | A | 163 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| EL1 | 13:36 | 13:40 | 4 | 2 | ALIVE | A | 168 | |
| EL2 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 174 | |
| EL3 | 13:42 | 13:48 | 6 | 2 | ALIVE | A | 165 | |
| EL4 | 13:41 | 13:51 | 10 | 2 | ALIVE | A | 152 | |
| EL5 | 14:01 | 14:06 | 5 | 2 | ALIVE | H | 146 | |
| EL6 | 14:05 | 14:10 | 5 | 2 | ALIVE | A | 170 | |
| EL7 | 14:02 | 14:04 | 2 | 2 | ALIVE | A | 161 | |
| EL8 | 14:00 | 14:11 | 11 | 2 | ALIVE | A | 153 | |
| EL9 | 14:07 | 14:31 | 24 | 2 | ALIVE | A | 145 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EM0 | 14:17 | 14:21 | 4 | 2 | ALIVE | A | 168 |
| EM1 | 14:31 | 14:40 | 9 | 2 | ALIVE | A | 144 |
| EM2 | 14:22 | 14:31 | 9 | 2 | ALIVE | A | 150 |
| EM3 | 14:13 | 14:35 | 22 | 2 | ALIVE | A | 167 |
| EM4 | 14:12 | 14:16 | 4 | 2 | ALIVE | A | 145 |
| EM5 | 14:49 | 14:52 | 3 | 2 | ALIVE | H | 153 |
| EM6 | 14:43 | 14:46 | 3 | 2 | ALIVE | A | 146 |
| EM7 | 14:38 | 14:46 | 8 | 2 | ALIVE | A | 147 |
| EM8 | 14:47 | 14:52 | 5 | 2 | ALIVE | A | 140 |
| EM9 | 14:36 | 14:41 | 5 | 2 | ALIVE | A | 154 |
| EN0 | 14:53 | 14:57 | 4 | 2 | ALIVE | A | 146 |
| EN1 | 14:56 | 15:20 | 24 | 2 | ALIVE | A | 167 |
| EN2 | 14:59 | 15:15 | 16 | 2 | ALIVE | A | 170 |
| EN3 | 15:00 | 15:07 | 7 | 2 | ALIVE | H | 178 |
| EN4 | 15:10 | 15:18 | 8 | 2 | ALIVE | A | 150 |
| EN5 | 15:21 | 15:32 | 11 | 2 | ALIVE | A | 138 |
| EN6 | 15:40 | 15:44 | 4 | 2 | ALIVE | A | 142 |
| EN7 | 15:27 | 15:37 | 10 | 2 | ALIVE | A | 145 |
| EN8 | 15:39 | 15:45 | 6 | 2 | ALIVE | A | 141 |
| EN9 | 15:32 | 15:37 | 5 | 2 | ALIVE | A | 140 |
| X93 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 174 |
| X94 | 15:24 | 15:24 | 0 | 2 | ALIVE | QH | 137 |

20 January 2000 - Testlot 51 : PL=2, Unit 6, Tip - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EP0 | 7:44 | 7:49 | 5 | 2 | ALIVE | A | 165 |
| EP1 | 7:42 | 7:53 | 11 | 2 | ALIVE | A | 148 |
| EP2 | 7:40 | 7:50 | 10 | 2 | ALIVE | A | 150 |
| EP3 | 7:38 | 7:44 | 6 | 2 | ALIVE | A | 147 |
| EP4 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 134 |
| EP5 | 7:56 | 8:09 | 13 | 2 | ALIVE | A | 156 |
| EP6 | 7:51 | 8:04 | 13 | 2 | ALIVE | A | 144 |
| EP7 | 7:59 | 8:14 | 15 | 2 | ALIVE | A | 140 |
| EP8 | 7:55 | 7:59 | 4 | 2 | ALIVE | A | 151 |
| EP9 | 7:50 | 7:55 | 5 | 2 | ALIVE | A | 147 |
| ER0 | 8:15 | 8:17 | 2 | 2 | ALIVE | A | 155 |
| ER1 | 8:12 | 8:19 | 7 | 2 | ALIVE | A | 137 |
| ER2 | 8:04 | 8:09 | 5 | 2 | ALIVE | A | 139 |
| ER3 | 8:10 | 8:14 | 4 | 2 | ALIVE | A | 178 |
| ER4 | 8:14 | 8:25 | 11 | 2 | ALIVE | A | 143 |
| ER5 | 8:19 | 8:27 | 8 | 2 | ALIVE | A | 130 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| ER6 | 8:39 | 8:45 | 6 | 2 | ALIVE | A | 165 | |
| ER7 | 8:21 | 8:24 | 3 | 2 | DEAD | F | 137 | |
| ER8 | 8:27 | 8:38 | 11 | 2 | ALIVE | A | 176 | |
| ER9 | 8:24 | 8:41 | 17 | 2 | ALIVE | A | 149 | |
| ES0 | 9:00 | 9:11 | 11 | 2 | ALIVE | A | 161 | |
| ES2 | 8:42 | 9:00 | 18 | 2 | ALIVE | A | 151 | |
| ES3 | 9:01 | 9:10 | 9 | 2 | ALIVE | A | 137 | |
| ES4 | 8:41 | 8:59 | 18 | 2 | ALIVE | A | 160 | |
| ES5 | 9:23 | 9:27 | 4 | 2 | ALIVE | A | 153 | |
| ES6 | 9:28 | 9:32 | 4 | 2 | ALIVE | A | 137 | |
| ES7 | 9:15 | 9:21 | 6 | 2 | ALIVE | A | 145 | |
| ES8 | 9:21 | 9:31 | 10 | 2 | ALIVE | A | 145 | |
| ES9 | 9:25 | 9:27 | 2 | 2 | ALIVE | A | 150 | |
| ET0 | 9:17 | 9:23 | 6 | 2 | ALIVE | A | 156 | |
| ET1 | 9:27 | 9:28 | 1 | 2 | ALIVE | A | 151 | |
| ET2 | 9:29 | 9:31 | 2 | 2 | ALIVE | A | 133 | |
| ET3 | 9:33 | 9:36 | 3 | 2 | ALIVE | A | 140 | |
| ET4 | 9:36 | 9:38 | 2 | 2 | ALIVE | A | 146 | |
| ET5 | 9:34 | 9:38 | 4 | 2 | ALIVE | A | 151 | |
| ET6 | 9:31 | 9:36 | 5 | 2 | ALIVE | A | 143 | |
| ET7 | 9:32 | 9:35 | 3 | 2 | ALIVE | A | 146 | |
| ET8 | 9:37 | 9:40 | 3 | 2 | ALIVE | A | 185 | |
| ET9 | 9:16 | 9:23 | 7 | 2 | ALIVE | A | 155 | |
| EU0 | 9:57 | 9:59 | 2 | 2 | DEAD | NF | 170 | |
| EU1 | 9:56 | 10:09 | 13 | 2 | ALIVE | A | 132 | |
| EU2 | 10:00 | 10:03 | 3 | 2 | ALIVE | A | 165 | |
| EU3 | 9:59 | 10:06 | 7 | 2 | ALIVE | A | 165 | |
| EU4 | 9:55 | 9:58 | 3 | 2 | ALIVE | A | 155 | |
| EU5 | 10:10 | 10:20 | 10 | 2 | ALIVE | A | 134 | |
| EU6 | 10:04 | 10:07 | 3 | 2 | ALIVE | A | 143 | |
| EU7 | 10:11 | . | . | 0 | TAG & PIN | | 132 | |
| EU8 | 10:06 | 10:12 | 6 | 2 | ALIVE | A | 135 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EU9 | 10:07 | 10:10 | 3 | 2 | ALIVE | A | 136 |
| EV0 | 10:23 | 10:29 | 6 | 2 | ALIVE | A | 130 |
| EV1 | 10:20 | 10:24 | 4 | 2 | ALIVE | A | 151 |
| EV2 | 10:19 | 10:21 | 2 | 2 | ALIVE | A | 140 |
| EV3 | 10:14 | 10:20 | 6 | 2 | ALIVE | A | 150 |
| EV4 | 10:22 | 10:35 | 13 | 2 | ALIVE | A | 136 |
| EV5 | 10:30 | 10:33 | 3 | 2 | ALIVE | A | 175 |
| EV6 | 10:34 | 10:37 | 3 | 2 | ALIVE | A | 156 |
| EV7 | 10:32 | 10:33 | 1 | 2 | ALIVE | A | 154 |
| EV8 | 10:35 | 10:43 | 8 | 2 | ALIVE | A | 139 |
| EV9 | 10:26 | 10:31 | 5 | 2 | ALIVE | A | 145 |
| EW0 | 10:38 | 10:48 | 10 | 2 | ALIVE | A | 137 |
| EW1 | 10:38 | 10:44 | 6 | 2 | ALIVE | A | 165 |
| EW2 | 10:49 | 10:56 | 7 | 2 | ALIVE | A | 160 |
| EW3 | 10:45 | 10:51 | 6 | 2 | ALIVE | A | 140 |
| EW4 | 10:43 | 10:52 | 9 | 2 | ALIVE | A | 147 |
| EW5 | 11:04 | 11:12 | 8 | 2 | ALIVE | A | 130 |
| EW6 | 11:20 | 11:24 | 4 | 2 | ALIVE | A | 156 |
| EW7 | 11:13 | 11:15 | 2 | 2 | ALIVE | A | 157 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| EW8 | 11:26 | 11:29 | 3 | 2 | ALIVE | A | 147 | |
| EW9 | 11:14 | 11:18 | 4 | 2 | ALIVE | A | 134 | |
| EX0 | 11:16 | 11:17 | 1 | 2 | ALIVE | H | 135 | |
| EX1 | 11:17 | 11:25 | 8 | 2 | ALIVE | A | 150 | |
| EX2 | 11:02 | 11:09 | 7 | 2 | ALIVE | A | 139 | |
| EX3 | 11:13 | . | . | 0 | DEAD | LZ | 153 | |
| EX4 | 11:10 | 11:11 | 1 | 2 | ALIVE | A | 152 | |
| EX5 | 11:03 | 11:13 | 10 | 2 | ALIVE | A | 134 | |
| EX6 | 11:18 | 11:22 | 4 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EX7 | 11:25 | 11:27 | 2 | 2 | ALIVE | A | 173 |
| EX8 | 11:11 | 11:13 | 2 | 2 | ALIVE | A | 145 |
| EX9 | 11:01 | 11:03 | 2 | 2 | ALIVE | A | 161 |
| EY0 | 11:47 | 11:53 | 6 | 2 | ALIVE | A | 148 |
| EY1 | 11:52 | 11:53 | 1 | 2 | ALIVE | A | 156 |
| EY2 | 11:48 | 12:02 | 14 | 2 | ALIVE | A | 140 |
| EY3 | 11:48 | 11:51 | 3 | 2 | ALIVE | A | 140 |
| EY4 | 11:53 | 11:55 | 2 | 2 | ALIVE | A | 165 |
| EY5 | 12:08 | 12:11 | 3 | 2 | ALIVE | A | 147 |
| EY6 | 11:56 | 11:58 | 2 | 2 | ALIVE | A | 145 |
| EY7 | 11:59 | 12:11 | 12 | 2 | ALIVE | A | 131 |
| EY8 | 12:00 | 12:07 | 7 | 2 | ALIVE | A | 156 |
| EY9 | 12:02 | 12:13 | 11 | 2 | ALIVE | A | 155 |
| EZ0 | 12:12 | 12:17 | 5 | 2 | ALIVE | A | 166 |
| EZ1 | 12:11 | 12:15 | 4 | 2 | ALIVE | A | 140 |
| EZ2 | 12:16 | . | . | 0 | DEAD | Z | 166 |
| EZ3 | 12:14 | 12:18 | 4 | 2 | ALIVE | H | 147 |
| EZ4 | 12:19 | 12:29 | 10 | 2 | ALIVE | A | 146 |
| EZ5 | 12:21 | 12:25 | 4 | 2 | ALIVE | A | 134 |
| EZ6 | 12:30 | 15:30 | 180 | 2 | ALIVE | TA | 143 |
| EZ7 | 12:26 | 12:41 | 15 | 2 | ALIVE | A | 142 |
| EZ8 | 12:48 | 12:51 | 3 | 2 | ALIVE | A | 140 |
| EZ9 | 12:47 | 12:51 | 4 | 2 | ALIVE | A | 135 |
| T00 | 13:01 | 15:30 | 149 | 2 | ALIVE | TA | 140 |
| T01 | 13:00 | 13:02 | 2 | 2 | ALIVE | A | 136 |
| T02 | 13:05 | 13:10 | 5 | 2 | ALIVE | A | 153 |
| T03 | 13:03 | 13:08 | 5 | 2 | ALIVE | A | 142 |
| T04 | 12:59 | 13:03 | 4 | 2 | ALIVE | A | 145 |
| T05 | 13:10 | . | . | 0 | DEAD | Z | 134 |
| T06 | 13:12 | 13:20 | 8 | 2 | ALIVE | A | 139 |
| T07 | 13:17 | 13:20 | 3 | 2 | ALIVE | A | 139 |
| T08 | 13:09 | 13:15 | 6 | 2 | ALIVE | A | 163 |
| T09 | 13:20 | 13:26 | 6 | 2 | ALIVE | A | 131 |
| T10 | 13:27 | 13:30 | 3 | 2 | ALIVE | A | 145 |
| T11 | 13:28 | 13:31 | 3 | 2 | ALIVE | A | 144 |
| T12 | 13:31 | 13:35 | 4 | 2 | ALIVE | A | 153 |
| T13 | 13:30 | 13:32 | 2 | 2 | ALIVE | A | 155 |
| T14 | 13:31 | 15:30 | 119 | 2 | ALIVE | TA | 169 |
| T16 | 13:53 | 14:08 | 15 | 2 | ALIVE | A | 138 |
| T17 | 13:43 | 13:47 | 4 | 2 | ALIVE | A | 144 |
| T18 | 13:36 | 13:38 | 2 | 2 | ALIVE | A | 155 |
| T19 | 13:39 | 13:42 | 3 | 2 | ALIVE | A | 184 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| T20 | 13:37 | 13:50 | 13 | 2 | ALIVE | A | 150 | |
| T21 | 13:52 | 13:55 | 3 | 2 | ALIVE | A | 143 | |
| T22 | 13:35 | 13:48 | 13 | 2 | ALIVE | A | 154 | |
| T23 | 13:49 | 14:01 | 12 | 2 | ALIVE | A | 140 | |
| T24 | 13:48 | 13:53 | 5 | 2 | ALIVE | A | 145 | |
| X95 | 8:46 | 8:59 | 13 | 2 | ALIVE | A | 143 | |
| 21 January 2000 - Testlot 52 : PL=3, Unit 6, Tip - Water temp=41.0 C | | | | | | | | |
| T30 | 7:40 | 8:00 | 20 | 2 | ALIVE | A | 153 | |
| T31 | 7:40 | 7:58 | 18 | 2 | ALIVE | A | 140 | |
| T32 | 7:41 | 7:52 | 11 | 2 | ALIVE | A | 159 | |
| T33 | 7:53 | 7:56 | 3 | 2 | ALIVE | A | 156 | |
| T34 | 7:56 | 7:59 | 3 | 2 | ALIVE | TA | 145 | |
| T35 | 8:09 | 8:15 | 6 | 2 | ALIVE | A | 135 | |
| T38 | 7:59 | 8:06 | 7 | 2 | ALIVE | A | 138 | |
| T39 | 8:08 | 8:11 | 3 | 2 | ALIVE | A | 135 | |
| T40 | 8:12 | 8:13 | 1 | 2 | ALIVE | A | 141 | |
| T42 | 8:14 | 8:19 | 5 | 2 | ALIVE | A | 153 | |
| T43 | 8:17 | 8:29 | 12 | 2 | ALIVE | A | 151 | |
| T44 | 8:12 | 8:17 | 5 | 2 | ALIVE | A | 143 | |
| T45 | 8:19 | 8:23 | 4 | 2 | ALIVE | A | 140 | |
| T46 | 8:22 | 8:29 | 7 | 2 | ALIVE | A | 153 | |
| T47 | 8:26 | 8:28 | 2 | 2 | ALIVE | H | 144 | |
| T48 | 8:23 | 8:25 | 2 | 2 | ALIVE | A | 150 | |
| T49 | 8:28 | 8:33 | 5 | 2 | ALIVE | A | 148 | |
| T50 | 8:31 | 8:34 | 3 | 2 | ALIVE | A | 136 | |
| T51 | 8:33 | 8:39 | 6 | 2 | ALIVE | A | 146 | |
| T52 | 8:32 | 8:40 | 8 | 2 | ALIVE | A | 150 | |
| T53 | 8:40 | 8:44 | 4 | 2 | ALIVE | A | 160 | |
| T54 | 8:35 | 8:43 | 8 | 2 | ALIVE | A | 151 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T55 | 9:27 | 9:34 | 7 | 2 | ALIVE | A | 142 |
| T56 | 9:23 | 9:24 | 1 | 2 | ALIVE | A | 160 |
| T57 | 9:09 | 9:15 | 6 | 2 | ALIVE | A | 149 |
| T58 | 9:27 | 9:30 | 3 | 2 | ALIVE | A | 165 |
| T59 | 9:25 | 9:32 | 7 | 2 | ALIVE | A | 146 |
| T60 | 9:08 | 9:14 | 6 | 2 | ALIVE | A | 142 |
| T61 | 9:20 | 9:23 | 3 | 2 | ALIVE | A | 146 |
| T62 | 9:24 | 9:26 | 2 | 2 | ALIVE | A | 137 |
| T63 | 9:31 | 9:35 | 4 | 2 | ALIVE | A | 204 |
| T64 | 9:16 | 9:17 | 1 | 2 | ALIVE | A | 154 |
| T65 | 9:18 | 9:26 | 8 | 2 | ALIVE | A | 162 |
| T66 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 152 |
| T67 | 9:20 | 9:22 | 2 | 2 | ALIVE | A | 153 |
| T68 | 9:34 | 9:40 | 6 | 2 | ALIVE | A | 157 |
| T69 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 145 |
| T70 | 9:50 | 10:08 | 18 | 1 | ALIVE | A | 146 |
| T71 | 9:56 | 10:02 | 6 | 2 | ALIVE | A | 144 |
| T72 | 10:01 | 10:17 | 16 | 2 | ALIVE | A | 160 |
| T74 | 9:49 | 10:00 | 11 | 2 | ALIVE | A | 137 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| T76 | 10:03 | 10:06 | 3 | 2 | ALIVE | A | 149 | |
| T77 | 10:07 | 10:09 | 2 | 2 | ALIVE | A | 137 | |
| T78 | 10:11 | 10:26 | 15 | 2 | ALIVE | A | 135 | |
| T79 | 10:14 | 10:20 | 6 | 1 | ALIVE | A | 136 | |
| T80 | 10:27 | 10:32 | 5 | 2 | ALIVE | A | 166 | |
| T81 | 10:25 | 10:36 | 11 | 2 | ALIVE | A | 155 | |
| T82 | 10:37 | 10:40 | 3 | 2 | ALIVE | A | 168 | |
| T83 | 10:41 | 10:48 | 7 | 2 | ALIVE | A | 196 | |
| T84 | 10:34 | 10:41 | 7 | 2 | ALIVE | A | 154 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T85 | 10:53 | 10:56 | 3 | 2 | ALIVE | A | 161 |
| T86 | 10:52 | 11:03 | 11 | 2 | ALIVE | A | 152 |
| T87 | 10:43 | 10:51 | 8 | 2 | ALIVE | A | 140 |
| T88 | 10:54 | 11:05 | 11 | 2 | ALIVE | A | 160 |
| T89 | 10:48 | 10:52 | 4 | 2 | ALIVE | A | 154 |
| T90 | 11:06 | 11:16 | 10 | 2 | ALIVE | A | 150 |
| T91 | 11:12 | 11:18 | 6 | 2 | ALIVE | A | 167 |
| T92 | 11:08 | 11:14 | 6 | 2 | ALIVE | A | 163 |
| T93 | 11:29 | 11:30 | 1 | 2 | ALIVE | A | 146 |
| T94 | 11:27 | 11:29 | 2 | 2 | ALIVE | A | 151 |
| T95 | 11:28 | 11:38 | 10 | 2 | ALIVE | A | 136 |
| T96 | 11:26 | 11:29 | 3 | 2 | ALIVE | A | 142 |
| T97 | 11:31 | . | . | 0 | TAG & PIN | | 161 |
| T98 | 11:42 | 11:45 | 3 | 2 | DEAD | A | 136 |
| T99 | 10:10 | 10:13 | 3 | 2 | ALIVE | A | 146 |
| U00 | 11:39 | 11:41 | 2 | 2 | ALIVE | A | 132 |
| U01 | 11:35 | 11:36 | 1 | 2 | ALIVE | A | 140 |
| U02 | 11:37 | 11:39 | 2 | 2 | ALIVE | A | 137 |
| U03 | 11:39 | 11:42 | 3 | 2 | ALIVE | A | 146 |
| U04 | 10:57 | 11:12 | 15 | 2 | ALIVE | A | 147 |
| U05 | 11:14 | 11:16 | 2 | 2 | ALIVE | A | 146 |
| U06 | 11:47 | 11:48 | 1 | 2 | ALIVE | A | 150 |
| U07 | 11:47 | 11:49 | 2 | 2 | ALIVE | A | 153 |
| U08 | 11:50 | 11:54 | 4 | 2 | ALIVE | A | 146 |
| U09 | 11:45 | 11:46 | 1 | 2 | ALIVE | A | 150 |
| U10 | 11:50 | 11:51 | 1 | 2 | ALIVE | A | 141 |
| U11 | 12:04 | 12:11 | 7 | 2 | ALIVE | A | 157 |
| U12 | 11:56 | 12:02 | 6 | 2 | ALIVE | A | 141 |
| U13 | 12:03 | 12:08 | 5 | 2 | ALIVE | A | 146 |
| U14 | 11:53 | 11:55 | 2 | 2 | ALIVE | A | 146 |
| U15 | 11:54 | 12:03 | 9 | 2 | ALIVE | A | 140 |
| U16 | 12:13 | 12:15 | 2 | 2 | ALIVE | A | 158 |
| U17 | 12:14 | 12:21 | 7 | 2 | ALIVE | A | 156 |
| U18 | 12:12 | 12:14 | 2 | 2 | ALIVE | A | 150 |
| U20 | 12:09 | 12:11 | 2 | 2 | ALIVE | A | 138 |
| U21 | 13:02 | 13:16 | 14 | 2 | ALIVE | A | 168 |
| U22 | 12:38 | 12:43 | 5 | 2 | ALIVE | A | 152 |
| U23 | 13:04 | 13:09 | 5 | 2 | ALIVE | A | 171 |
| U24 | 12:54 | 12:57 | 3 | 2 | ALIVE | A | 138 |
| U25 | 12:54 | 13:00 | 6 | 2 | ALIVE | A | 156 |
| U26 | 12:47 | 12:49 | 2 | 2 | ALIVE | A | 137 |
| U27 | 13:00 | 13:01 | 1 | 2 | ALIVE | A | 138 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| U28 | 12:52 | 12:54 | 2 | 2 | ALIVE | A | 132 | |
| U29 | 12:44 | 12:49 | 5 | 2 | ALIVE | A | 168 | |
| U30 | 12:50 | 12:53 | 3 | 2 | ALIVE | A | 147 | |
| U31 | 12:38 | 12:47 | 9 | 2 | ALIVE | A | 142 | |
| U32 | 12:58 | 12:59 | 1 | 2 | ALIVE | A | 138 | |
| U33 | 12:39 | 13:49 | 70 | 2 | ALIVE | A | 136 | |
| U34 | 13:01 | 13:04 | 3 | 2 | ALIVE | A | 180 | |
| U35 | 12:50 | 12:51 | 1 | 2 | ALIVE | A | 156 | |
| U36 | 13:29 | 13:31 | 2 | 2 | ALIVE | A | 142 | |
| U37 | 13:32 | 13:34 | 2 | 2 | ALIVE | A | 158 | |
| U38 | 13:27 | 13:30 | 3 | 2 | ALIVE | A | 135 | |
| U39 | 13:30 | 13:39 | 9 | 2 | ALIVE | A | 147 | |
| U40 | 13:28 | 13:31 | 3 | 2 | ALIVE | A | 140 | |
| U41 | 13:34 | 13:38 | 4 | 2 | ALIVE | A | 142 | |
| U42 | 13:40 | 13:43 | 3 | 2 | ALIVE | A | 158 | |
| U43 | 13:42 | 13:45 | 3 | 2 | ALIVE | A | 178 | |
| U44 | 13:39 | 13:41 | 2 | 2 | ALIVE | A | 142 | |
| U45 | 13:36 | 13:59 | 23 | 2 | ALIVE | A | 145 | |
| U46 | 13:46 | 13:54 | 8 | 2 | ALIVE | A | 159 | |
| U47 | 13:25 | 13:31 | 6 | 1 | ALIVE | DH | 187 | |
| U48 | 13:55 | 13:57 | 2 | 2 | DEAD | F | 150 | |
| U50 | 13:48 | 13:51 | 3 | 2 | ALIVE | A | 167 | |
| U51 | 14:06 | 14:09 | 3 | 2 | ALIVE | A | 151 | |
| U52 | 14:01 | 14:03 | 2 | 2 | ALIVE | A | 158 | |
| U53 | 13:58 | 14:00 | 2 | 2 | ALIVE | A | 150 | |
| U54 | 14:02 | 14:10 | 8 | 2 | ALIVE | A | 147 | |
| U55 | 14:02 | 14:27 | 25 | 2 | ALIVE | A | 176 | |
| U56 | 14:10 | 14:12 | 2 | 2 | ALIVE | A | 166 | |

22 January 2000 - Testlot 53 : PL=4, Unit 5, Tip - Water temp=41.0 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PA0 | 9:52 | 9:53 | 1 | 2 | ALIVE | A | 140 |
| PA1 | 9:53 | 10:07 | 14 | 2 | ALIVE | A | 152 |
| PA2 | 9:49 | 9:51 | 2 | 2 | ALIVE | A | 143 |
| PA3 | 9:50 | 9:51 | 1 | 2 | ALIVE | A | 144 |
| PA4 | 9:48 | 9:51 | 3 | 2 | ALIVE | A | 135 |
| PA5 | 9:56 | 9:58 | 2 | 2 | ALIVE | A | 131 |
| PA6 | 10:02 | 10:08 | 6 | 2 | ALIVE | A | 149 |
| PA7 | 9:55 | 9:58 | 3 | 2 | DEAD | A | 148 |
| PA8 | 9:58 | 10:00 | 2 | 2 | DEAD | NQ | 170 |
| PA9 | 10:00 | 10:04 | 4 | 2 | ALIVE | A | 175 |
| PB0 | 10:09 | 10:11 | 2 | 2 | ALIVE | A | 167 |
| PB1 | 10:12 | 10:15 | 3 | 2 | ALIVE | A | 171 |
| PB2 | 10:15 | 10:29 | 14 | 2 | ALIVE | A | 149 |
| PB3 | 10:08 | 10:14 | 6 | 1 | DEAD | NB | 137 |
| PB4 | 10:05 | 10:21 | 16 | 2 | ALIVE | A | 130 |
| PB5 | 10:22 | . | . | 0 | TAG & PIN | | 152 |
| PB6 | 10:21 | 10:25 | 4 | 2 | ALIVE | A | 141 |
| PB7 | 10:29 | 10:33 | 4 | 2 | ALIVE | A | 155 |
| PB8 | 10:18 | 10:20 | 2 | 2 | ALIVE | A | 137 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PB9 | 10:31 | 10:35 | 4 | 2 | ALIVE | A | 157 | |
| PC0 | 10:50 | 10:51 | 1 | 2 | ALIVE | A | 150 | |
| PC1 | 10:46 | 10:50 | 4 | 2 | DEAD | Q | 160 | |
| PC2 | 10:50 | 10:54 | 4 | 2 | ALIVE | A | 145 | |
| PC3 | 10:44 | 10:48 | 4 | 2 | ALIVE | H | 167 | |
| PC4 | 10:52 | 10:54 | 2 | 2 | ALIVE | A | 142 | |
| PC5 | 11:11 | 11:16 | 5 | 2 | ALIVE | A | 155 | |
| PC6 | 11:06 | 11:11 | 5 | 2 | ALIVE | A | 145 | |
| PC7 | 11:01 | 11:10 | 9 | 2 | ALIVE | A | 158 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PC8 | 11:03 | 11:06 | 3 | 2 | ALIVE | A | 129 |
| PC9 | 11:02 | 11:12 | 10 | 2 | ALIVE | A | 164 |
| PD0 | 11:13 | 11:18 | 5 | 2 | ALIVE | A | 137 |
| PD1 | 11:16 | 11:18 | 2 | 2 | ALIVE | A | 137 |
| PD2 | 11:18 | 11:22 | 4 | 2 | ALIVE | A | 152 |
| PD3 | 11:17 | 11:31 | 14 | 2 | ALIVE | A | 151 |
| PD4 | 11:12 | 11:15 | 3 | 2 | ALIVE | A | 160 |
| PD5 | 11:23 | 11:27 | 4 | 2 | ALIVE | A | 158 |
| PD6 | 11:29 | 11:36 | 7 | 2 | ALIVE | A | 140 |
| PD7 | 11:24 | 11:26 | 2 | 2 | ALIVE | A | 133 |
| PD8 | 11:28 | 11:39 | 11 | 2 | ALIVE | A | 144 |
| PD9 | 11:27 | 11:29 | 2 | 2 | ALIVE | A | 138 |
| PE0 | 11:40 | 11:46 | 6 | 2 | ALIVE | A | 156 |
| PE1 | 11:45 | 11:48 | 3 | 2 | ALIVE | A | 162 |
| PE2 | 11:38 | 11:43 | 5 | 2 | ALIVE | H | 165 |
| PE3 | 11:37 | 11:39 | 2 | 2 | ALIVE | A | 184 |
| PE4 | 11:39 | 11:49 | 10 | 2 | ALIVE | A | 135 |
| PE5 | 11:47 | 11:52 | 5 | 2 | ALIVE | A | 132 |
| PE6 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 145 |
| PE7 | 12:01 | 12:08 | 7 | 2 | ALIVE | A | 135 |
| PE8 | 12:05 | 12:15 | 10 | 2 | ALIVE | A | 137 |
| PE9 | 12:00 | 12:04 | 4 | 2 | ALIVE | A | 170 |
| PF0 | 12:06 | 12:10 | 4 | 2 | ALIVE | A | 158 |
| PF1 | 12:12 | 12:14 | 2 | 2 | ALIVE | A | 167 |
| PF2 | 12:10 | 12:12 | 2 | 2 | ALIVE | A | 135 |
| PF3 | 12:09 | 12:15 | 6 | 1 | DEAD | F | 159 |
| PF4 | 12:16 | 12:17 | 1 | 2 | ALIVE | A | 171 |
| PF5 | 12:15 | 12:17 | 2 | 2 | ALIVE | A | 184 |
| PF6 | 12:19 | 12:25 | 6 | 2 | ALIVE | A | 135 |
| PF7 | 12:18 | 12:27 | 9 | 2 | ALIVE | A | 146 |
| PF8 | 12:26 | 12:37 | 11 | 2 | ALIVE | A | 195 |
| PF9 | 12:20 | 12:23 | 3 | 2 | ALIVE | A | 154 |
| PH0 | 12:24 | 12:26 | 2 | 2 | ALIVE | A | 147 |
| PH1 | 12:30 | 12:32 | 2 | 2 | ALIVE | A | 158 |
| PH2 | 12:32 | 12:35 | 3 | 2 | ALIVE | A | 141 |
| PH3 | 12:37 | 12:39 | 2 | 2 | ALIVE | A | 151 |
| PH4 | 12:29 | 12:35 | 6 | 2 | ALIVE | H | 155 |
| PH5 | 12:26 | 14:30 | 124 | 2 | ALIVE | TA | 176 |
| PH6 | 13:06 | 13:10 | 4 | 2 | ALIVE | A | 165 |
| PH7 | 13:19 | 13:24 | 5 | 2 | ALIVE | A | 155 |
| PH8 | 13:12 | 13:21 | 9 | 2 | ALIVE | A | 150 |
| PH9 | 13:40 | 13:42 | 2 | 2 | ALIVE | A | 154 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PJ0 | 13:23 | 13:25 | 2 | 2 | ALIVE | A | 137 | |
| PJ1 | 13:22 | 13:24 | 2 | 2 | ALIVE | A | 145 | |
| PJ2 | 13:24 | 13:28 | 4 | 2 | ALIVE | A | 150 | |
| PJ3 | 13:35 | 13:40 | 5 | 2 | ALIVE | A | 165 | |
| PJ4 | 13:31 | 13:49 | 18 | 2 | ALIVE | A | 155 | |
| PJ5 | 13:03 | 13:06 | 3 | 2 | ALIVE | A | 137 | |
| PJ6 | 13:09 | 13:12 | 3 | 2 | ALIVE | A | 140 | |
| PJ8 | 13:34 | 13:43 | 9 | 2 | ALIVE | A | 150 | |
| PJ9 | 13:39 | 13:49 | 10 | 2 | ALIVE | A | 169 | |
| PK0 | 13:26 | 13:30 | 4 | 2 | ALIVE | A | 152 | |
| U57 | 7:31 | 7:40 | 9 | 2 | ALIVE | A | 158 | |
| U58 | 7:39 | 7:44 | 5 | 2 | ALIVE | A | 176 | |
| U59 | 7:31 | 7:38 | 7 | 2 | ALIVE | A | 137 | |
| U60 | 7:41 | 7:47 | 6 | 2 | ALIVE | A | 150 | |
| U61 | 7:32 | 7:43 | 11 | 2 | ALIVE | A | 149 | |
| U62 | 7:49 | 7:53 | 4 | 2 | ALIVE | A | 146 | |
| U63 | 7:52 | 7:58 | 6 | 2 | ALIVE | A | 137 | |
| U65 | 7:44 | 7:55 | 11 | 2 | ALIVE | A | 156 | |
| U66 | 7:45 | 7:46 | 1 | 2 | ALIVE | A | 140 | |
| U67 | 7:47 | 7:51 | 4 | 2 | ALIVE | A | 152 | |
| U68 | 7:54 | 8:07 | 13 | 2 | ALIVE | A | 132 | |
| U69 | 8:00 | 8:16 | 16 | 2 | ALIVE | A | 135 | |
| U70 | 7:59 | 8:03 | 4 | 2 | ALIVE | A | 146 | |
| U71 | 8:04 | 8:12 | 8 | 2 | ALIVE | A | 158 | |
| U72 | 7:56 | 7:58 | 2 | 2 | ALIVE | A | 160 | |
| U73 | 8:08 | 8:16 | 8 | 2 | ALIVE | A | 141 | |
| U74 | 8:17 | 8:23 | 6 | 2 | ALIVE | A | 163 | |
| U75 | 8:18 | 8:23 | 5 | 2 | ALIVE | A | 147 | |
| U76 | 8:13 | 8:16 | 3 | 2 | ALIVE | A | 138 | |
| U77 | 8:18 | 8:21 | 3 | 2 | ALIVE | A | 157 | |
| U79 | 8:24 | . | . | 0 | DEAD | Z | 139 | |
| U80 | 8:34 | 8:46 | 12 | 2 | ALIVE | A | 150 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| U81 | 8:36 | 8:44 | 8 | 2 | ALIVE | A | 181 |
| U82 | 8:22 | 8:35 | 13 | 2 | ALIVE | A | 153 |
| U83 | 8:59 | 9:03 | 4 | 2 | ALIVE | A | 136 |
| U84 | 9:20 | 9:26 | 6 | 2 | ALIVE | A | 145 |
| U85 | 9:04 | 9:11 | 7 | 2 | ALIVE | A | 147 |
| U86 | 9:00 | 9:02 | 2 | 2 | ALIVE | A | 160 |
| U87 | 9:07 | 9:09 | 2 | 2 | ALIVE | A | 142 |
| U88 | 9:01 | 9:05 | 4 | 2 | ALIVE | A | 148 |
| U89 | 9:06 | 9:24 | 18 | 2 | ALIVE | A | 142 |
| U90 | 9:32 | 9:40 | 8 | 2 | ALIVE | A | 153 |
| U91 | 9:03 | 9:06 | 3 | 2 | ALIVE | A | 132 |
| U92 | 9:27 | 9:34 | 7 | 2 | ALIVE | A | 166 |
| U93 | 9:28 | 9:32 | 4 | 2 | ALIVE | A | 157 |
| U94 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 141 |
| U95 | 9:31 | 9:34 | 3 | 2 | ALIVE | A | 139 |
| U96 | 9:08 | 9:30 | 22 | 2 | ALIVE | A | 142 |
| U97 | 9:12 | 9:14 | 2 | 2 | ALIVE | A | 164 |
| U98 | 13:04 | 13:08 | 4 | 2 | ALIVE | A | 149 |
| U99 | 13:16 | 13:33 | 17 | 2 | ALIVE | A | 145 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| 23 January 2000 - Testlot 54 : PL=4, Unit 5, Mid - Water temp=41.0 C | | | | | | | | |
| J96 | 14:28 | 14:31 | 3 | 2 | ALIVE | A | 143 | |
| J97 | 14:29 | 14:39 | 10 | 2 | ALIVE | A | 160 | |
| J98 | 14:27 | 14:29 | 2 | 2 | ALIVE | A | 144 | |
| J99 | 12:07 | 12:30 | 23 | 2 | ALIVE | A | 143 | |
| PK1 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 162 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PK2 | 7:29 | 8:01 | 32 | 2 | ALIVE | A | 160 |
| PK3 | 8:35 | 8:52 | 17 | 2 | ALIVE | A | 143 |
| PK4 | 7:37 | 7:39 | 2 | 2 | ALIVE | A | 155 |
| PK5 | 7:30 | 7:36 | 6 | 2 | ALIVE | A | 147 |
| PK6 | 7:55 | 8:03 | 8 | 2 | ALIVE | A | 137 |
| PK7 | 7:49 | 7:52 | 3 | 2 | ALIVE | A | 192 |
| PK8 | 7:53 | 8:08 | 15 | 2 | ALIVE | A | 150 |
| PK9 | 7:40 | 7:55 | 15 | 2 | ALIVE | A | 140 |
| PL0 | 7:41 | 7:48 | 7 | 2 | ALIVE | H | 141 |
| PL1 | 8:12 | 8:15 | 3 | 2 | DEAD | IJ | 168 |
| PL2 | 8:11 | 8:21 | 10 | 2 | ALIVE | A | 173 |
| PL3 | 8:07 | 8:09 | 2 | 2 | ALIVE | A | 137 |
| PL4 | 8:10 | 8:12 | 2 | 2 | ALIVE | A | 138 |
| PL5 | 8:03 | 8:11 | 8 | 2 | ALIVE | A | 137 |
| PL6 | 8:19 | 8:22 | 3 | 2 | ALIVE | A | 130 |
| PL7 | 8:16 | 8:30 | 14 | 2 | ALIVE | A | 133 |
| PL9 | 8:24 | 8:26 | 2 | 2 | ALIVE | A | 141 |
| PM0 | 8:14 | 8:18 | 4 | 2 | ALIVE | A | 140 |
| PM1 | 8:45 | 8:46 | 1 | 2 | ALIVE | A | 157 |
| PM3 | 8:41 | 8:44 | 3 | 2 | ALIVE | A | 162 |
| PM4 | 8:37 | 8:40 | 3 | 2 | ALIVE | A | 153 |
| PM5 | 8:48 | 8:51 | 3 | 2 | ALIVE | A | 158 |
| PM6 | 9:25 | 9:40 | 15 | 2 | ALIVE | A | 152 |
| PM7 | 9:19 | 9:23 | 4 | 2 | ALIVE | A | 160 |
| PM8 | 9:23 | 9:31 | 8 | 2 | ALIVE | A | 153 |
| PM9 | 9:20 | 9:22 | 2 | 2 | ALIVE | A | 138 |
| PN0 | 9:24 | 9:30 | 6 | 2 | ALIVE | A | 146 |
| PN1 | 9:03 | 9:09 | 6 | 2 | ALIVE | A | 157 |
| PN2 | 9:09 | 9:13 | 4 | 2 | ALIVE | A | 155 |
| PN3 | 9:01 | 9:06 | 5 | 2 | ALIVE | A | 147 |
| PN4 | 9:02 | 9:08 | 6 | 2 | ALIVE | A | 141 |
| PN5 | 9:07 | 9:10 | 3 | 2 | ALIVE | A | 153 |
| PN6 | 9:17 | 9:24 | 7 | 2 | ALIVE | A | 169 |
| PN7 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 155 |
| PN8 | 9:11 | 9:14 | 3 | 2 | ALIVE | A | 153 |
| PN9 | 9:11 | 9:17 | 6 | 2 | ALIVE | A | 135 |
| PP0 | 9:13 | 9:16 | 3 | 2 | ALIVE | A | 137 |
| PP1 | 9:43 | . | . | 0 | DEAD | Z | 141 |
| PP2 | 9:32 | 9:42 | 10 | 2 | ALIVE | A | 135 |
| PP3 | 9:31 | 9:37 | 6 | 2 | ALIVE | A | 165 |
| PP4 | 9:38 | 9:52 | 14 | 2 | ALIVE | A | 146 |
| PP5 | 9:43 | 9:46 | 3 | 2 | ALIVE | A | 137 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PP6 | 10:15 | 10:28 | 13 | 2 | ALIVE | A | 140 | |
| PP7 | 10:04 | 10:26 | 22 | 1 | ALIVE | A | 140 | |
| PP8 | 10:07 | 10:12 | 5 | 2 | ALIVE | A | 140 | |
| PP9 | 10:03 | 10:06 | 3 | 2 | ALIVE | A | 135 | |
| PR0 | 10:15 | 10:30 | 15 | 2 | ALIVE | A | 142 | |
| PR1 | 10:29 | 10:38 | 9 | 2 | ALIVE | A | 145 | |
| PR2 | 10:28 | 10:40 | 12 | 2 | ALIVE | A | 147 | |
| PR3 | 10:39 | 10:43 | 4 | 1 | ALIVE | I | 170 | |
| PR4 | 10:30 | 10:36 | 6 | 2 | ALIVE | A | 146 | |
| PR5 | 10:38 | 10:42 | 4 | 2 | ALIVE | A | 165 | |
| PR6 | 10:59 | 11:27 | 28 | 2 | ALIVE | A | 165 | |
| PR7 | 10:52 | 11:08 | 16 | 2 | ALIVE | A | 168 | |
| PR8 | 10:52 | 10:55 | 3 | 2 | ALIVE | A | 150 | |
| PR9 | 10:53 | 10:57 | 4 | 1 | ALIVE | A | 150 | |
| PS0 | 10:56 | 10:58 | 2 | 2 | ALIVE | A | 140 | |
| PS1 | 11:32 | 11:43 | 11 | 2 | ALIVE | A | 161 | |
| PS2 | 11:18 | 11:32 | 14 | 2 | ALIVE | A | 147 | |
| PS3 | 11:33 | 12:09 | 36 | 1 | ALIVE | A | 160 | |
| PS4 | 11:01 | 11:26 | 25 | 2 | ALIVE | A | 154 | |
| PS5 | 11:10 | 11:17 | 7 | 2 | DEAD | F | 133 | |
| PS6 | 11:58 | 12:04 | 6 | 2 | ALIVE | A | 165 | |
| PS7 | 12:04 | 12:18 | 14 | 2 | ALIVE | A | 153 | |
| PS8 | 11:45 | 12:04 | 19 | 2 | ALIVE | A | 164 | |
| PS9 | 11:35 | 11:54 | 19 | 2 | ALIVE | A | 147 | |
| PT0 | 12:27 | 12:34 | 7 | 2 | ALIVE | A | 156 | |
| PT1 | 12:29 | 12:31 | 2 | 2 | ALIVE | A | 157 | |
| PT2 | 12:26 | 12:28 | 2 | 2 | ALIVE | A | 160 | |
| PT3 | 12:42 | 12:46 | 4 | 2 | ALIVE | A | 138 | |
| PT4 | 12:37 | 12:40 | 3 | 2 | ALIVE | A | 154 | |
| PT5 | 12:32 | 12:34 | 2 | 2 | ALIVE | A | 139 | |
| PT6 | 12:40 | 12:42 | 2 | 2 | ALIVE | A | 150 | |
| PT7 | 12:41 | 12:44 | 3 | 2 | ALIVE | A | 138 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PT8 | 12:34 | 12:36 | 2 | 2 | ALIVE | A | 144 |
| PT9 | 12:45 | 12:46 | 1 | 2 | ALIVE | A | 142 |
| PU0 | 12:35 | 12:38 | 3 | 2 | ALIVE | A | 153 |
| PU1 | 12:36 | 12:39 | 3 | 2 | ALIVE | A | 153 |
| PU2 | 12:43 | 12:45 | 2 | 2 | ALIVE | A | 150 |
| PU3 | 12:47 | 12:59 | 12 | 2 | ALIVE | A | 142 |
| PU4 | 12:46 | 12:52 | 6 | 2 | ALIVE | A | 142 |
| PU5 | 13:12 | 13:28 | 16 | 2 | ALIVE | A | 147 |
| PU6 | 13:01 | 13:09 | 8 | 2 | ALIVE | A | 152 |
| PU7 | 13:02 | 13:09 | 7 | 2 | ALIVE | A | 140 |
| PU8 | 13:20 | 13:23 | 3 | 2 | ALIVE | A | 142 |
| PU9 | 12:52 | 12:55 | 3 | 2 | ALIVE | A | 143 |
| PV0 | 13:24 | 13:26 | 2 | 2 | ALIVE | A | 143 |
| PV1 | 12:54 | 13:00 | 6 | 2 | ALIVE | A | 167 |
| PV2 | 13:16 | 13:24 | 8 | 2 | ALIVE | A | 155 |
| PV3 | 13:10 | 13:15 | 5 | 2 | ALIVE | A | 147 |
| PV4 | 12:49 | 12:52 | 3 | 2 | ALIVE | A | 145 |
| PV5 | 13:15 | 13:19 | 4 | 2 | ALIVE | A | 132 |
| PV6 | 13:01 | 13:09 | 8 | 2 | ALIVE | A | 144 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| PV7 | 13:11 | 13:15 | 4 | 2 | ALIVE | A | 134 | |
| PV8 | 12:15 | 13:02 | 47 | 2 | ALIVE | A | 134 | |
| PV9 | 13:25 | 13:30 | 5 | 2 | ALIVE | A | 160 | |
| PW0 | 13:47 | 13:50 | 3 | 2 | ALIVE | A | 144 | |
| PW1 | 13:41 | 13:56 | 15 | 2 | ALIVE | A | 153 | |
| PW2 | 13:51 | 13:53 | 2 | 2 | ALIVE | A | 142 | |
| PW3 | 13:43 | 13:59 | 16 | 2 | ALIVE | A | 141 | |
| PW4 | 13:54 | 13:56 | 2 | 2 | ALIVE | A | 147 | |
| PW5 | 14:03 | 14:07 | 4 | 2 | ALIVE | A | 140 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PW6 | 14:00 | 14:03 | 3 | 2 | ALIVE | A | 140 |
| PW7 | 14:02 | 14:05 | 3 | 2 | ALIVE | A | 142 |
| PW8 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 137 |
| PW9 | 13:57 | 14:05 | 8 | 2 | ALIVE | A | 140 |
| PX0 | 14:08 | 14:11 | 3 | 2 | ALIVE | A | 172 |
| PX1 | 14:07 | 14:11 | 4 | 2 | ALIVE | A | 160 |
| PX2 | 14:08 | 14:20 | 12 | 2 | ALIVE | A | 156 |
| PX3 | 14:12 | 14:21 | 9 | 2 | ALIVE | A | 164 |
| PX4 | 14:06 | 14:08 | 2 | 2 | ALIVE | A | 155 |
| PX5 | 14:16 | 14:22 | 6 | 2 | ALIVE | A | 140 |
| PX6 | 14:14 | 14:16 | 2 | 2 | ALIVE | A | 139 |
| PX7 | 14:22 | 14:48 | 26 | 2 | ALIVE | A | 179 |
| PX8 | 14:17 | 14:24 | 7 | 2 | ALIVE | A | 132 |
| PX9 | 14:23 | 14:24 | 1 | 2 | ALIVE | A | 138 |

24 January 2000 - Testlot 55 : PL=2, Unit 5, Mid - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J00 | 9:02 | 9:06 | 4 | 2 | ALIVE | A | 144 |
| J01 | 8:47 | 9:03 | 16 | 2 | ALIVE | A | 148 |
| J02 | 8:50 | 9:01 | 11 | 2 | ALIVE | A | 138 |
| J04 | 8:49 | 8:52 | 3 | 1 | ALIVE | IB | 142 |
| J05 | 9:08 | 9:19 | 11 | 2 | ALIVE | A | 135 |
| J06 | 9:16 | 9:19 | 3 | 2 | ALIVE | A | 152 |
| J07 | 9:10 | 9:18 | 8 | 2 | ALIVE | A | 133 |
| J08 | 9:19 | 9:24 | 5 | 2 | ALIVE | A | 165 |
| J09 | 9:09 | 9:15 | 6 | 2 | ALIVE | A | 173 |
| J10 | 9:21 | 9:43 | 22 | 2 | ALIVE | A | 147 |
| J11 | 9:25 | 9:28 | 3 | 2 | ALIVE | A | 153 |
| J12 | 9:28 | 9:31 | 3 | 2 | ALIVE | A | 158 |
| J14 | 9:30 | 9:34 | 4 | 2 | ALIVE | A | 145 |
| J15 | 9:43 | 10:17 | 34 | 2 | ALIVE | A | 150 |
| J16 | 9:55 | 10:00 | 5 | 2 | ALIVE | A | 154 |
| J17 | 9:33 | 9:38 | 5 | 2 | ALIVE | A | 134 |
| J18 | 9:45 | 9:56 | 11 | 2 | ALIVE | A | 143 |
| J19 | 9:36 | 9:44 | 8 | 2 | DEAD | F | 155 |
| J20 | 10:08 | 10:20 | 12 | 2 | ALIVE | A | 169 |
| J21 | 10:03 | 10:07 | 4 | 2 | ALIVE | A | 150 |
| J22 | 10:01 | 10:12 | 11 | 2 | ALIVE | A | 174 |
| J23 | 10:13 | 10:22 | 9 | 2 | ALIVE | A | 147 |
| J24 | 9:57 | 10:02 | 5 | 2 | ALIVE | A | 160 |
| J25 | 10:56 | 10:59 | 3 | 2 | ALIVE | A | 164 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| J26 | 11:06 | 11:10 | 4 | 2 | ALIVE | A | 156 | |
| J27 | 10:40 | 10:42 | 2 | 2 | ALIVE | A | 139 | |
| J28 | 11:07 | 11:11 | 4 | 2 | ALIVE | A | 152 | |
| J29 | 10:52 | 10:56 | 4 | 2 | ALIVE | A | 152 | |
| J30 | 10:39 | 10:42 | 3 | 2 | ALIVE | A | 144 | |
| J31 | 10:40 | 10:43 | 3 | 2 | ALIVE | A | 140 | |
| J32 | 10:47 | 11:05 | 18 | 2 | ALIVE | A | 143 | |
| J33 | 10:59 | 11:01 | 2 | 2 | ALIVE | A | 138 | |
| J34 | 10:43 | 10:46 | 3 | 2 | ALIVE | A | 142 | |
| J35 | 11:01 | 11:15 | 14 | 2 | ALIVE | A | 151 | |
| J36 | 10:44 | 10:49 | 5 | 2 | ALIVE | A | 152 | |
| J37 | 10:42 | 10:49 | 7 | 2 | ALIVE | A | 151 | |
| J38 | 10:50 | 10:52 | 2 | 2 | ALIVE | A | 154 | |
| J39 | 10:53 | 11:06 | 13 | 2 | ALIVE | A | 165 | |
| J40 | 11:23 | 11:25 | 2 | 2 | ALIVE | A | 177 | |
| J41 | 11:24 | 11:29 | 5 | 2 | ALIVE | A | 139 | |
| J42 | 11:25 | 11:41 | 16 | 2 | ALIVE | A | 146 | |
| J43 | 11:30 | 11:34 | 4 | 2 | ALIVE | A | 140 | |
| J44 | 11:27 | 11:35 | 8 | 2 | ALIVE | A | 157 | |
| J45 | 11:41 | 11:46 | 5 | 2 | ALIVE | A | 148 | |
| J46 | 11:35 | 11:37 | 2 | 1 | ALIVE | A | 133 | |
| J47 | 11:36 | 11:40 | 4 | 2 | ALIVE | A | 143 | |
| J48 | 11:42 | 11:55 | 13 | 2 | ALIVE | A | 145 | |
| J49 | 11:38 | 11:42 | 4 | 2 | ALIVE | A | 158 | |
| J50 | 11:44 | 11:50 | 6 | 2 | ALIVE | A | 160 | |
| J51 | 11:51 | 11:59 | 8 | 2 | ALIVE | A | 151 | |
| J52 | 11:56 | 12:04 | 8 | 2 | ALIVE | A | 146 | |
| J53 | 11:47 | 12:10 | 23 | 2 | ALIVE | A | 173 | |
| J54 | 12:00 | 12:05 | 5 | 2 | ALIVE | A | 172 | |
| J55 | 12:11 | 12:18 | 7 | 2 | ALIVE | A | 138 | |
| J56 | 12:15 | 12:18 | 3 | 2 | ALIVE | A | 148 | |
| J57 | 12:05 | 12:08 | 3 | 2 | ALIVE | A | 153 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| J58 | 12:06 | 12:08 | 2 | 2 | ALIVE | A | 139 | |
| J59 | 12:12 | 12:14 | 2 | 2 | ALIVE | A | 149 | |
| J60 | 12:24 | 12:39 | 15 | 2 | ALIVE | A | 158 | |
| J61 | 12:23 | 12:26 | 3 | 2 | ALIVE | A | 143 | |
| J62 | 12:18 | 12:22 | 4 | 2 | ALIVE | A | 157 | |
| J63 | 12:17 | 12:22 | 5 | 2 | ALIVE | A | 149 | |
| J64 | 12:20 | 12:28 | 8 | 2 | ALIVE | A | 146 | |
| J65 | 12:35 | 12:38 | 3 | 2 | ALIVE | A | 177 | |
| J66 | 12:29 | 12:38 | 9 | 2 | ALIVE | A | 140 | |
| J67 | 12:38 | 12:42 | 4 | 1 | ALIVE | A | 154 | |
| J68 | 12:27 | 12:29 | 2 | 2 | ALIVE | A | 152 | |
| J69 | 12:31 | 12:34 | 3 | 2 | ALIVE | A | 135 | |
| J70 | 12:42 | 12:51 | 9 | 2 | ALIVE | A | 139 | |
| J71 | 12:42 | 13:00 | 18 | 2 | ALIVE | A | 147 | |
| J72 | 12:41 | 12:49 | 8 | 2 | ALIVE | A | 140 | |
| J73 | 12:50 | 12:54 | 4 | 2 | ALIVE | A | 147 | |
| J74 | 12:52 | 13:00 | 8 | 2 | ALIVE | A | 132 | |
| J75 | 13:05 | 13:09 | 4 | 2 | ALIVE | A | 160 | |
| J76 | 13:07 | 13:12 | 5 | 2 | ALIVE | A | 154 | |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| J77 | 13:02 | 13:06 | 4 | 2 | ALIVE | A | 145 | |
| J78 | 13:00 | 13:15 | 15 | 2 | DEAD | F | 144 | |
| J79 | 12:54 | 13:03 | 9 | 2 | ALIVE | A | 177 | |
| J80 | 13:10 | 13:17 | 7 | 2 | ALIVE | A | 151 | |
| J81 | 13:16 | 13:19 | 3 | 2 | ALIVE | H | 134 | |
| J82 | 13:13 | . | . | 0 | DEAD | Z | 140 | |
| J83 | 13:18 | 13:24 | 6 | 2 | ALIVE | A | 142 | |
| J84 | 13:19 | 13:24 | 5 | 2 | ALIVE | A | 142 | |
| J94 | 10:18 | 10:28 | 10 | 2 | ALIVE | A | 144 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J95 | 10:22 | 10:28 | 6 | 2 | ALIVE | A | 148 |
| PY0 | 7:40 | 7:48 | 8 | 2 | ALIVE | A | 142 |
| PY1 | 7:34 | 7:39 | 5 | 2 | ALIVE | A | 142 |
| PY2 | 7:36 | 7:46 | 10 | 2 | ALIVE | A | 160 |
| PY3 | 7:47 | 8:08 | 21 | 2 | ALIVE | A | 146 |
| PY4 | 7:35 | 7:48 | 13 | 2 | ALIVE | A | 158 |
| PY5 | 7:57 | 8:02 | 5 | 2 | ALIVE | A | 147 |
| PY6 | 7:53 | 8:03 | 10 | 2 | ALIVE | A | 142 |
| PY7 | 7:49 | 7:56 | 7 | 2 | ALIVE | A | 154 |
| PY8 | 8:03 | 8:07 | 4 | 1 | DEAD | E | 165 |
| PY9 | 7:50 | 7:52 | 2 | 2 | ALIVE | A | 145 |
| PZ0 | 8:18 | 8:46 | 28 | 2 | ALIVE | A | 139 |
| PZ1 | 8:12 | 8:17 | 5 | 2 | ALIVE | A | 136 |
| PZ2 | 8:19 | 8:26 | 7 | 2 | ALIVE | A | 145 |
| PZ3 | 8:16 | 8:21 | 5 | 2 | ALIVE | A | 138 |
| PZ4 | 8:11 | 8:19 | 8 | 2 | ALIVE | A | 139 |
| PZ5 | 8:22 | 8:43 | 21 | 2 | ALIVE | HQ | 138 |
| PZ6 | 8:36 | 8:41 | 5 | 2 | ALIVE | A | 145 |
| PZ7 | 8:30 | 8:35 | 5 | 2 | ALIVE | A | 144 |
| PZ8 | 8:26 | 8:29 | 3 | 2 | ALIVE | A | 155 |
| PZ9 | 8:42 | 8:48 | 6 | 2 | ALIVE | A | 145 |
| SA0 | 13:47 | 13:49 | 2 | 2 | ALIVE | A | 148 |
| SA1 | 13:54 | 13:57 | 3 | 2 | ALIVE | A | 144 |
| SA2 | 14:04 | 14:07 | 3 | 2 | ALIVE | A | 172 |
| SA3 | 13:50 | 13:57 | 7 | 2 | ALIVE | A | 143 |
| SA4 | 13:43 | 13:54 | 11 | 2 | ALIVE | A | 151 |
| SA5 | 13:41 | 13:43 | 2 | 2 | ALIVE | A | 143 |
| SA6 | 13:39 | 13:48 | 9 | 2 | ALIVE | A | 161 |
| SA7 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 141 |
| SA8 | 13:58 | 14:01 | 3 | 2 | ALIVE | A | 155 |
| SA9 | 14:00 | 14:01 | 1 | 2 | ALIVE | A | 178 |
| SB0 | 13:48 | 13:49 | 1 | 2 | ALIVE | A | 180 |
| SB1 | 13:40 | 13:43 | 3 | 2 | ALIVE | A | 164 |
| SB2 | 14:08 | 14:12 | 4 | 2 | ALIVE | A | 152 |
| SB3 | 13:49 | 13:56 | 7 | 2 | ALIVE | A | 145 |
| SB4 | 13:44 | 13:46 | 2 | 2 | ALIVE | A | 144 |

25 January 2000 - Testlot 56 : PL=4, Unit 6, Tip - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J85 | 12:00 | 12:02 | 2 | 2 | ALIVE | H | 150 |
| J86 | 12:02 | 12:06 | 4 | 2 | ALIVE | A | 148 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SB5 | 8:10 | 8:12 | 2 | 2 | ALIVE | A | 152 | |
| SB6 | 8:06 | 8:15 | 9 | 2 | ALIVE | A | 153 | |
| SB7 | 7:52 | 7:55 | 3 | 2 | ALIVE | A | 151 | |
| SB8 | 7:54 | 8:21 | 27 | 2 | ALIVE | A | 146 | |
| SB9 | 7:51 | 7:55 | 4 | 2 | ALIVE | A | 143 | |
| SC0 | 8:01 | 8:09 | 8 | 2 | ALIVE | A | 153 | |
| SC1 | 7:57 | 7:59 | 2 | 2 | ALIVE | A | 142 | |
| SC2 | 7:50 | 7:53 | 3 | 2 | ALIVE | A | 167 | |
| SC3 | 7:46 | 7:49 | 3 | 2 | ALIVE | A | 183 | |
| SC4 | 8:03 | 8:05 | 2 | 2 | ALIVE | A | 183 | |
| SC5 | 7:45 | 7:49 | 4 | 2 | ALIVE | A | 132 | |
| SC6 | 8:00 | 8:02 | 2 | 2 | ALIVE | A | 153 | |
| SC7 | 7:45 | 7:50 | 5 | 2 | ALIVE | A | 148 | |
| SC8 | 7:57 | 7:59 | 2 | 2 | ALIVE | A | 160 | |
| SC9 | 8:13 | 8:15 | 2 | 2 | ALIVE | A | 162 | |
| SD0 | 8:50 | 8:59 | 9 | 2 | ALIVE | A | 154 | |
| SD1 | 8:38 | 8:45 | 7 | 2 | ALIVE | A | 157 | |
| SD2 | 8:46 | 8:49 | 3 | 2 | ALIVE | A | 146 | |
| SD3 | 8:49 | 8:53 | 4 | 2 | ALIVE | A | 143 | |
| SD4 | 8:38 | 8:48 | 10 | 2 | ALIVE | A | 143 | |
| SD6 | 8:58 | 9:00 | 2 | 2 | ALIVE | A | 140 | |
| SD7 | 8:56 | 8:57 | 1 | 2 | ALIVE | A | 144 | |
| SD8 | 8:59 | 9:08 | 9 | 2 | ALIVE | A | 160 | |
| SD9 | 8:53 | 8:55 | 2 | 2 | ALIVE | A | 152 | |
| SE0 | 9:19 | 9:22 | 3 | 2 | ALIVE | A | 153 | |
| SE1 | 9:19 | 9:27 | 8 | 2 | ALIVE | A | 144 | |
| SE2 | 9:08 | 9:18 | 10 | 2 | ALIVE | A | 152 | |
| SE3 | 9:15 | 9:18 | 3 | 2 | ALIVE | A | 142 | |
| SE4 | 9:23 | 9:25 | 2 | 2 | ALIVE | A | 140 | |
| SE5 | 9:30 | 9:35 | 5 | 2 | ALIVE | A | 136 | |
| SE6 | 9:28 | 9:35 | 7 | 2 | ALIVE | A | 140 | |
| SE7 | 9:26 | 9:32 | 6 | 1 | ALIVE | A | 148 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SE8 | 9:28 | 9:29 | 1 | 2 | ALIVE | A | 152 |
| SE9 | 9:33 | 9:35 | 2 | 2 | ALIVE | A | 133 |
| SF0 | 9:40 | 9:49 | 9 | 2 | ALIVE | A | 168 |
| SF1 | 9:41 | 9:43 | 2 | 2 | ALIVE | A | 190 |
| SF2 | 9:37 | 9:39 | 2 | 2 | ALIVE | A | 191 |
| SF3 | 9:36 | 9:47 | 11 | 2 | ALIVE | A | 167 |
| SF4 | 9:38 | 9:39 | 1 | 2 | ALIVE | A | 150 |
| SF5 | 9:58 | 10:00 | 2 | 2 | ALIVE | A | 142 |
| SF6 | 10:01 | 10:03 | 2 | 2 | ALIVE | A | 146 |
| SF7 | 10:04 | 10:08 | 4 | 2 | ALIVE | A | 139 |
| SF8 | 9:59 | 10:05 | 6 | 2 | ALIVE | A | 144 |
| SF9 | 9:57 | 10:00 | 3 | 1 | DEAD | F | 157 |
| SH0 | 10:12 | 10:23 | 11 | 2 | ALIVE | A | 150 |
| SH1 | 10:06 | 10:13 | 7 | 2 | ALIVE | A | 139 |
| SH2 | 10:07 | 10:09 | 2 | 2 | ALIVE | A | 147 |
| SH4 | 10:09 | 10:11 | 2 | 2 | ALIVE | A | 131 |
| SH5 | 10:16 | 10:21 | 5 | 2 | ALIVE | A | 136 |
| SH6 | 10:18 | 10:21 | 3 | 2 | ALIVE | A | 158 |
| SH7 | 10:22 | 10:50 | 28 | 1 | ALIVE | A | 153 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SH8 | 10:21 | 10:23 | 2 | 2 | ALIVE | A | 157 | |
| SH9 | 10:15 | 10:17 | 2 | 2 | ALIVE | A | 160 | |
| SJ0 | 10:36 | 10:39 | 3 | 2 | ALIVE | A | 150 | |
| SJ1 | 10:30 | 10:33 | 3 | 2 | ALIVE | A | 157 | |
| SJ2 | 10:33 | 10:36 | 3 | 2 | ALIVE | A | 144 | |
| SJ3 | 10:26 | 10:39 | 13 | 1 | ALIVE | H | 162 | |
| SJ4 | 10:27 | 10:30 | 3 | 2 | ALIVE | A | 144 | |
| SJ6 | 10:46 | 10:48 | 2 | 2 | ALIVE | A | 166 | |
| SJ7 | 10:51 | 10:56 | 5 | 2 | ALIVE | A | 158 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SJ8 | 10:49 | 10:57 | 8 | 2 | DEAD | N | 161 |
| SJ9 | 10:53 | 10:55 | 2 | 2 | ALIVE | A | 155 |
| SK0 | 11:05 | 11:07 | 2 | 2 | ALIVE | A | 162 |
| SK1 | 11:15 | 11:21 | 6 | 2 | ALIVE | A | 142 |
| SK2 | 11:09 | 11:10 | 1 | 2 | ALIVE | A | 155 |
| SK3 | 11:06 | 11:23 | 17 | 2 | ALIVE | A | 154 |
| SK4 | 11:05 | 11:14 | 9 | 2 | ALIVE | A | 153 |
| SK5 | 11:22 | 11:31 | 9 | 2 | ALIVE | A | 168 |
| SK6 | 11:33 | 11:36 | 3 | 2 | ALIVE | A | 161 |
| SK7 | 11:19 | 11:32 | 13 | 2 | ALIVE | A | 162 |
| SK8 | 11:31 | 11:35 | 4 | 2 | ALIVE | A | 158 |
| SK9 | 11:25 | 11:42 | 17 | 2 | ALIVE | A | 182 |
| SL0 | 11:36 | 11:39 | 3 | 2 | ALIVE | A | 155 |
| SL1 | 11:44 | 11:54 | 10 | 2 | ALIVE | A | 157 |
| SL2 | 11:43 | 11:45 | 2 | 2 | ALIVE | A | 145 |
| SL3 | 11:39 | 11:42 | 3 | 2 | ALIVE | A | 142 |
| SL4 | 11:40 | 11:43 | 3 | 2 | ALIVE | A | 151 |
| SL5 | 11:46 | 11:48 | 2 | 2 | ALIVE | A | 156 |
| SL6 | 11:55 | 12:00 | 5 | 2 | ALIVE | A | 151 |
| SL7 | 11:53 | 12:02 | 9 | 2 | ALIVE | A | 162 |
| SL9 | 11:49 | 11:52 | 3 | 2 | ALIVE | Q | 148 |
| SM0 | 12:34 | 12:42 | 8 | 2 | ALIVE | A | 173 |
| SM1 | 12:30 | 12:33 | 3 | 2 | ALIVE | A | 180 |
| SM2 | 12:52 | 12:56 | 4 | 2 | ALIVE | A | 180 |
| SM3 | 12:54 | 13:02 | 8 | 2 | ALIVE | A | 185 |
| SM4 | 12:33 | 12:53 | 20 | 2 | ALIVE | A | 158 |
| SM5 | 12:28 | 12:29 | 1 | 2 | ALIVE | A | 154 |
| SM6 | 12:19 | 12:26 | 7 | 2 | ALIVE | A | 146 |
| SM7 | 12:51 | 12:55 | 4 | 2 | ALIVE | A | 150 |
| SM8 | 12:17 | 12:21 | 4 | 2 | ALIVE | A | 135 |
| SM9 | 12:48 | 12:51 | 3 | 2 | ALIVE | A | 134 |
| SN0 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 133 |
| SN1 | 12:22 | 12:42 | 20 | 2 | ALIVE | A | 146 |
| SN2 | 12:43 | 12:50 | 7 | 2 | ALIVE | A | 135 |
| SN3 | 12:16 | 12:18 | 2 | 2 | ALIVE | A | 141 |
| SN4 | 12:16 | 12:31 | 15 | 2 | ALIVE | A | 134 |
| SN5 | 13:10 | 13:12 | 2 | 2 | ALIVE | A | 151 |
| SN6 | 13:12 | 13:14 | 2 | 2 | ALIVE | A | 150 |
| SN7 | 13:11 | 13:16 | 5 | 2 | ALIVE | A | 146 |
| SN8 | 13:09 | 13:11 | 2 | 2 | ALIVE | A | 167 |
| SN9 | 13:13 | 13:16 | 3 | 2 | ALIVE | A | 145 |
| SP0 | 13:16 | 13:18 | 2 | 2 | ALIVE | HQ | 136 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SP1 | 13:19 | 13:23 | 4 | 2 | ALIVE | A | 160 | |
| SP2 | 13:17 | 13:22 | 5 | 2 | ALIVE | A | 142 | |
| SP3 | 13:20 | 13:26 | 6 | 2 | ALIVE | A | 173 | |
| SP4 | 13:15 | 13:18 | 3 | 1 | ALIVE | A | 152 | |
| SP5 | 13:28 | 13:31 | 3 | 2 | ALIVE | A | 170 | |
| SP6 | 13:27 | 13:29 | 2 | 2 | ALIVE | A | 150 | |
| SP7 | 13:30 | 13:31 | 1 | 2 | ALIVE | A | 173 | |
| SP8 | 13:26 | 13:28 | 2 | 2 | ALIVE | A | 148 | |
| SP9 | 13:23 | 13:27 | 4 | 2 | ALIVE | A | 135 | |
| SR0 | 13:34 | . | . | 0 | DEAD | L | 138 | |
| SR1 | 13:38 | 13:42 | 4 | 2 | ALIVE | A | 148 | |
| SR2 | 13:36 | 13:55 | 19 | 2 | ALIVE | A | 140 | |
| SR3 | 13:31 | 13:34 | 3 | 2 | ALIVE | A | 163 | |
| SR4 | 13:32 | 13:37 | 5 | 2 | ALIVE | A | 148 | |
| SR5 | 14:04 | 14:05 | 1 | 2 | ALIVE | A | 150 | |
| SR7 | 14:16 | 14:18 | 2 | 2 | ALIVE | A | 158 | |
| 26 January 2000 - Testlot 57 : PL=2, Unit 6, Tip - Water temp=41.0 C | | | | | | | | |
| NM0 | 12:22 | 12:25 | 3 | 2 | ALIVE | A | 146 | |
| NM1 | 12:41 | 12:44 | 3 | 1 | DEAD | B | 145 | |
| NM2 | 12:45 | 12:48 | 3 | 2 | ALIVE | A | 150 | |
| NM3 | 12:39 | 12:54 | 15 | 2 | ALIVE | A | 157 | |
| NM4 | 12:26 | 12:40 | 14 | 2 | ALIVE | A | 157 | |
| NM5 | 12:55 | 12:58 | 3 | 2 | ALIVE | A | 146 | |
| NM6 | 12:56 | . | . | 0 | DEAD | P | 133 | |
| NM7 | 12:52 | 12:54 | 2 | 2 | ALIVE | A | 149 | |
| NM8 | 12:57 | 13:02 | 5 | 2 | ALIVE | A | 150 | |
| NM9 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 136 | |
| NN0 | 13:17 | 13:24 | 7 | 2 | ALIVE | A | 136 | |
| NN1 | 13:33 | 13:37 | 4 | 2 | ALIVE | A | 141 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NN2 | 12:26 | 13:28 | 62 | 2 | ALIVE | A | 153 |
| NN3 | 13:25 | 13:32 | 7 | 2 | ALIVE | A | 158 |
| NN4 | 13:29 | 13:36 | 7 | 2 | ALIVE | A | 164 |
| NN5 | 13:40 | 13:49 | 9 | 2 | ALIVE | A | 138 |
| NN6 | 13:37 | 13:42 | 5 | 2 | ALIVE | A | 133 |
| NN7 | 13:35 | 13:39 | 4 | 2 | DEAD | HJ | 143 |
| NN8 | 13:43 | 13:45 | 2 | 2 | ALIVE | A | 158 |
| NN9 | 13:38 | 13:42 | 4 | 2 | ALIVE | A | 139 |
| NP0 | 13:45 | 13:48 | 3 | 2 | ALIVE | A | 145 |
| NP1 | 13:04 | 14:02 | 58 | 2 | ALIVE | A | 140 |
| NP2 | 13:46 | 13:48 | 2 | 2 | ALIVE | A | 148 |
| NP3 | 13:51 | 13:58 | 7 | 2 | ALIVE | A | 177 |
| NP4 | 13:50 | 13:53 | 3 | 2 | ALIVE | A | 144 |
| NP5 | 13:59 | 14:01 | 2 | 1 | ALIVE | HB | 143 |
| NP6 | 13:54 | 13:57 | 3 | 2 | ALIVE | A | 146 |
| NP7 | 14:03 | 14:12 | 9 | 2 | ALIVE | A | 154 |
| NP8 | 14:02 | 14:05 | 3 | 2 | ALIVE | A | 143 |
| NP9 | 13:58 | 14:03 | 5 | 2 | ALIVE | A | 131 |
| NR0 | 14:43 | 14:49 | 6 | 2 | ALIVE | A | 146 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NR1 | 14:21 | 14:29 | 8 | 2 | ALIVE | A | 147 | |
| NR2 | 14:20 | 14:23 | 3 | 2 | ALIVE | A | 153 | |
| NR3 | 14:35 | 14:42 | 7 | 2 | ALIVE | A | 141 | |
| NR4 | 14:43 | 14:44 | 1 | 2 | ALIVE | A | 142 | |
| NR5 | 14:30 | 14:33 | 3 | 2 | ALIVE | A | 158 | |
| NR6 | 14:26 | 14:34 | 8 | 2 | ALIVE | A | 160 | |
| NR7 | 14:24 | 14:27 | 3 | 2 | ALIVE | A | 140 | |
| NR8 | 14:40 | 14:42 | 2 | 2 | ALIVE | A | 160 | |
| NR9 | 14:22 | 14:25 | 3 | 2 | ALIVE | A | 146 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NS0 | 14:37 | 14:39 | 2 | 2 | ALIVE | A | 154 |
| NS1 | 14:27 | 14:35 | 8 | 2 | ALIVE | A | 174 |
| NS2 | 14:33 | 14:36 | 3 | 2 | ALIVE | A | 175 |
| NS3 | 14:39 | 14:44 | 5 | 2 | ALIVE | A | 156 |
| NS4 | 14:36 | 14:38 | 2 | 2 | ALIVE | A | 149 |
| SR8 | 7:28 | 7:36 | 8 | 2 | ALIVE | A | 167 |
| SR9 | 7:30 | 8:17 | 47 | 2 | ALIVE | A | 155 |
| SS0 | 7:42 | . | . | 0 | UNKNOWN | X | 146 |
| SS1 | 7:38 | 7:41 | 3 | 2 | ALIVE | A | 140 |
| SS2 | 7:29 | 8:04 | 35 | 2 | ALIVE | A | 154 |
| SS3 | 8:11 | 8:14 | 3 | 2 | ALIVE | A | 140 |
| SS4 | 8:07 | 8:12 | 5 | 2 | ALIVE | A | 136 |
| SS5 | 8:12 | 8:27 | 15 | 2 | ALIVE | A | 133 |
| SS6 | 8:06 | 8:10 | 4 | 2 | ALIVE | A | 135 |
| SS7 | 7:57 | 8:02 | 5 | 2 | ALIVE | A | 147 |
| SS8 | 8:51 | 8:58 | 7 | 2 | ALIVE | A | 154 |
| SS9 | 8:15 | 8:19 | 4 | 2 | ALIVE | H | 170 |
| ST0 | 8:53 | 9:21 | 28 | 2 | ALIVE | A | 151 |
| ST1 | 8:16 | 8:24 | 8 | 2 | ALIVE | A | 159 |
| ST2 | 8:52 | 8:56 | 4 | 2 | ALIVE | A | 139 |
| ST3 | 9:05 | 9:19 | 14 | 2 | ALIVE | A | 146 |
| ST4 | 9:04 | 9:08 | 4 | 2 | ALIVE | A | 145 |
| ST5 | 8:58 | 9:02 | 4 | 2 | ALIVE | A | 155 |
| ST6 | 8:57 | 9:03 | 6 | 2 | ALIVE | A | 144 |
| ST7 | 9:02 | 9:05 | 3 | 2 | ALIVE | A | 150 |
| ST8 | 9:24 | 9:30 | 6 | 2 | ALIVE | A | 142 |
| ST9 | 9:08 | 9:23 | 15 | 2 | ALIVE | A | 153 |
| SU0 | 9:20 | 9:23 | 3 | 2 | ALIVE | A | 166 |
| SU1 | 9:22 | 9:25 | 3 | 2 | ALIVE | H | 145 |
| SU2 | 9:25 | 9:28 | 3 | 2 | ALIVE | A | 143 |
| SU3 | 9:35 | 9:48 | 13 | 2 | ALIVE | A | 139 |
| SU4 | 9:36 | 9:38 | 2 | 2 | ALIVE | A | 145 |
| SU5 | 9:41 | 10:04 | 23 | 2 | ALIVE | A | 175 |
| SU6 | 9:34 | 9:42 | 8 | 2 | ALIVE | A | 152 |
| SU7 | 9:39 | 9:41 | 2 | 2 | ALIVE | A | 134 |
| SU8 | 9:44 | 9:50 | 6 | 2 | ALIVE | A | 138 |
| SU9 | 9:56 | 9:58 | 2 | 2 | ALIVE | A | 137 |
| SV0 | 9:51 | . | . | 0 | UNKNOWN | X | 147 |
| SV1 | 9:59 | 10:08 | 9 | 2 | ALIVE | A | 137 |
| SV2 | 9:49 | 9:55 | 6 | 2 | ALIVE | A | 152 |
| SV3 | 10:11 | 10:14 | 3 | 2 | ALIVE | A | 143 |
| SV4 | 10:12 | 10:15 | 3 | 2 | ALIVE | A | 151 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| SV5 | 10:16 | 10:21 | 5 | 2 | ALIVE | A | 144 | |
| SV6 | 10:15 | 10:23 | 8 | 2 | ALIVE | A | 150 | |
| SV7 | 10:13 | 10:16 | 3 | 2 | ALIVE | A | 140 | |
| SV8 | 10:25 | 10:27 | 2 | 1 | DEAD | ENB | 149 | |
| SV9 | 10:20 | 10:24 | 4 | 2 | ALIVE | A | 154 | |
| SW0 | 10:22 | 10:29 | 7 | 2 | ALIVE | A | 141 | |
| SW1 | 10:23 | 10:38 | 15 | 2 | ALIVE | A | 148 | |
| SW2 | 10:28 | 10:37 | 9 | 2 | ALIVE | A | 197 | |
| SW3 | 10:39 | 10:43 | 4 | 2 | ALIVE | A | 159 | |
| SW4 | 10:29 | 10:32 | 3 | 2 | ALIVE | A | 160 | |
| SW5 | 10:37 | 10:43 | 6 | 2 | ALIVE | A | 136 | |
| SW6 | 10:32 | 10:39 | 7 | 2 | ALIVE | A | 137 | |
| SW7 | 10:40 | 10:43 | 3 | 2 | ALIVE | A | 180 | |
| SW8 | 11:02 | 11:05 | 3 | 2 | ALIVE | A | 158 | |
| SW9 | 11:18 | 11:21 | 3 | 2 | ALIVE | A | 135 | |
| SX0 | 10:55 | 11:01 | 6 | 2 | ALIVE | A | 154 | |
| SX1 | 11:09 | 11:14 | 5 | 2 | ALIVE | A | 148 | |
| SX2 | 10:57 | 11:06 | 9 | 2 | ALIVE | A | 142 | |
| SX3 | 11:08 | 11:15 | 7 | 2 | ALIVE | A | 143 | |
| SX4 | 10:56 | 10:59 | 3 | 2 | ALIVE | A | 175 | |
| SX5 | 11:17 | 11:21 | 4 | 2 | ALIVE | A | 142 | |
| SX6 | 11:14 | 11:20 | 6 | 2 | ALIVE | A | 159 | |
| SX7 | 11:00 | 11:08 | 8 | 2 | ALIVE | A | 133 | |
| SX8 | 11:18 | 11:29 | 11 | 2 | ALIVE | A | 169 | |
| SX9 | 11:15 | 11:18 | 3 | 2 | ALIVE | A | 175 | |
| SY0 | 11:05 | 11:08 | 3 | 2 | ALIVE | A | 156 | |
| SY1 | 11:22 | 11:32 | 10 | 2 | ALIVE | A | 153 | |
| SY2 | 11:09 | 11:16 | 7 | 2 | ALIVE | A | 167 | |
| SY3 | 11:42 | . | . | 0 | UNKNOWN | X | 132 | |
| SY4 | 11:38 | 12:04 | 26 | 2 | ALIVE | A | 162 | |
| SY5 | 11:39 | 11:42 | 3 | 2 | ALIVE | A | 137 | |
| SY6 | 11:40 | 12:00 | 20 | 2 | ALIVE | A | 145 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SY7 | 12:07 | 12:35 | 28 | 2 | ALIVE | A | 150 |
| SY8 | 12:00 | 12:07 | 7 | 2 | ALIVE | A | 144 |
| SY9 | 12:06 | 12:09 | 3 | 2 | ALIVE | A | 137 |
| SZ0 | 12:09 | 12:43 | 34 | 2 | ALIVE | A | 145 |
| SZ1 | 12:10 | 12:21 | 11 | 2 | ALIVE | A | 186 |
| SZ2 | 12:03 | 12:06 | 3 | 2 | ALIVE | A | 152 |

27 January 2000 - Testlot 58 : PL=1, Unit 5, Tip - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NS5 | 7:35 | 7:46 | 11 | 2 | ALIVE | A | 142 |
| NS6 | 7:38 | . | . | 0 | UNKNOWN | X | 146 |
| NS7 | 7:32 | 7:41 | 9 | 2 | ALIVE | A | 156 |
| NS8 | 7:42 | 7:48 | 6 | 2 | ALIVE | A | 148 |
| NS9 | 7:33 | 7:37 | 4 | 2 | ALIVE | A | 134 |
| NT0 | 8:07 | 8:13 | 6 | 2 | ALIVE | A | 133 |
| NT1 | 8:06 | 8:08 | 2 | 2 | ALIVE | A | 142 |
| NT2 | 8:02 | 8:05 | 3 | 2 | ALIVE | A | 145 |
| NT3 | 8:11 | 8:15 | 4 | 2 | ALIVE | A | 146 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NT4 | 8:00 | 8:06 | 6 | 2 | ALIVE | A | 137 | |
| NT5 | 8:13 | 8:16 | 3 | 2 | ALIVE | A | 150 | |
| NT6 | 8:17 | 8:20 | 3 | 2 | ALIVE | A | 143 | |
| NT7 | 8:20 | 8:22 | 2 | 2 | ALIVE | A | 157 | |
| NT8 | 8:16 | 8:21 | 5 | 1 | DEAD | F | 143 | |
| NU0 | 8:31 | 8:34 | 3 | 2 | ALIVE | A | 141 | |
| NU1 | 8:34 | 8:39 | 5 | 2 | ALIVE | A | 147 | |
| NU2 | 8:41 | 8:43 | 2 | 2 | ALIVE | A | 134 | |
| NU3 | 8:24 | 8:31 | 7 | 2 | ALIVE | A | 154 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| NU4 | 8:44 | . | . | 0 | TAG & PIN | 162 |
| NU5 | 8:47 | 8:51 | 4 | 2 | ALIVE A | 151 |
| NU6 | 8:54 | 8:59 | 5 | 2 | ALIVE A | 161 |
| NU7 | 9:01 | . | . | 0 | TAG & PIN | 150 |
| NU8 | 8:57 | 9:00 | 3 | 2 | ALIVE A | 142 |
| NU9 | 8:53 | 8:56 | 3 | 2 | ALIVE A | 147 |
| NV0 | 9:08 | 9:15 | 7 | 2 | ALIVE A | 141 |
| NV1 | 9:31 | 9:36 | 5 | 2 | ALIVE A | 157 |
| NV2 | 9:16 | 9:20 | 4 | 2 | ALIVE A | 143 |
| NV3 | 9:30 | 9:34 | 4 | 2 | ALIVE A | 146 |
| NV4 | 9:03 | 9:27 | 24 | 1 | ALIVE A | 144 |
| NV5 | 9:41 | 9:45 | 4 | 2 | ALIVE A | 164 |
| NV6 | 9:46 | 9:48 | 2 | 2 | ALIVE A | 133 |
| NV7 | 9:46 | 9:49 | 3 | 2 | ALIVE A | 141 |
| NV8 | 9:40 | 9:44 | 4 | 2 | ALIVE A | 155 |
| NV9 | 9:41 | 9:44 | 3 | 2 | ALIVE A | 152 |
| NW0 | 9:59 | 10:02 | 3 | 2 | ALIVE A | 142 |
| NW1 | 9:48 | 10:03 | 15 | 2 | ALIVE A | 160 |
| NW2 | 9:49 | 9:59 | 10 | 2 | ALIVE A | 153 |
| NW3 | 9:55 | 9:58 | 3 | 2 | ALIVE A | 147 |
| NW4 | 9:51 | 9:54 | 3 | 2 | ALIVE A | 156 |
| NW5 | 10:07 | 10:09 | 2 | 2 | ALIVE A | 137 |
| NW6 | 10:09 | 10:16 | 7 | 2 | ALIVE A | 135 |
| NW7 | 10:00 | 10:02 | 2 | 2 | ALIVE A | 135 |
| NW8 | 10:04 | 10:11 | 7 | 2 | ALIVE A | 144 |
| NW9 | 10:03 | 10:07 | 4 | 2 | ALIVE A | 155 |
| NX0 | 10:42 | 10:45 | 3 | 2 | ALIVE A | 133 |
| NX2 | 10:42 | . | . | 0 | UNKNOWN X | 150 |
| NX3 | 11:17 | 11:30 | 13 | 2 | ALIVE A | 140 |
| NX4 | 10:43 | 11:22 | 39 | 2 | ALIVE A | 137 |
| NX5 | 11:25 | 11:36 | 11 | 2 | ALIVE A | 146 |
| NX6 | 11:18 | 11:24 | 6 | 2 | ALIVE A | 137 |
| NX7 | 11:31 | 11:38 | 7 | 2 | ALIVE A | 158 |
| NX8 | 11:26 | 11:30 | 4 | 2 | ALIVE A | 157 |
| NX9 | 11:21 | 11:24 | 3 | 2 | ALIVE A | 135 |
| NY0 | 11:37 | . | . | 0 | TAG & PIN | 152 |
| NY1 | 11:51 | 11:56 | 5 | 2 | ALIVE A | 132 |
| NY2 | 11:33 | . | . | 0 | DEAD Z | 132 |
| NY3 | 11:39 | 11:49 | 10 | 2 | ALIVE A | 140 |
| NY4 | 11:52 | 11:58 | 6 | 2 | ALIVE A | 152 |
| NY5 | 12:00 | 12:04 | 4 | 2 | ALIVE A | 137 |
| NY6 | 11:58 | 12:06 | 8 | 2 | ALIVE A | 164 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| NY7 | 11:59 | 12:02 | 3 | 2 | ALIVE | A | 165 | |
| NY8 | 12:04 | 12:10 | 6 | 2 | ALIVE | A | 162 | |
| NY9 | 12:03 | 12:10 | 7 | 2 | ALIVE | A | 162 | |
| NZ0 | 12:07 | 12:17 | 10 | 2 | ALIVE | A | 155 | |
| NZ1 | 12:18 | 12:27 | 9 | 1 | ALIVE | A | 156 | |
| NZ2 | 12:15 | 12:20 | 5 | 2 | ALIVE | A | 142 | |
| NZ3 | 12:12 | 12:18 | 6 | 2 | ALIVE | A | 138 | |
| NZ4 | 12:11 | 12:14 | 3 | 2 | ALIVE | A | 143 | |
| NZ5 | 12:25 | 12:31 | 6 | 2 | ALIVE | A | 160 | |
| NZ6 | 12:29 | 12:35 | 6 | 2 | DEAD | FN | 165 | |
| NZ7 | 12:28 | 12:36 | 8 | 2 | ALIVE | A | 156 | |
| NZ8 | 12:20 | 12:27 | 7 | 2 | ALIVE | A | 143 | |
| NZ9 | 12:21 | 12:24 | 3 | 2 | ALIVE | A | 145 | |
| SZ3 | 10:10 | 10:18 | 8 | 2 | ALIVE | A | 134 | |
| SZ4 | 10:11 | 10:25 | 14 | 2 | ALIVE | A | 131 | |
| SZ5 | 13:12 | 13:19 | 7 | 2 | ALIVE | A | 141 | |
| SZ6 | 13:13 | 13:23 | 10 | 2 | ALIVE | A | 132 | |
| UA0 | 12:41 | 12:46 | 5 | 2 | ALIVE | A | 148 | |
| UA1 | 12:38 | 12:43 | 5 | 2 | ALIVE | A | 132 | |
| UA2 | 12:35 | 12:40 | 5 | 2 | ALIVE | A | 143 | |
| UA3 | 12:42 | 12:53 | 11 | 2 | ALIVE | A | 138 | |
| UA4 | 12:36 | 12:39 | 3 | 2 | ALIVE | A | 142 | |
| UA5 | 12:53 | 12:56 | 3 | 2 | ALIVE | A | 160 | |
| UA6 | 12:48 | 13:04 | 16 | 2 | ALIVE | A | 145 | |
| UA7 | 12:44 | 12:52 | 8 | 2 | ALIVE | A | 152 | |
| UA8 | 12:57 | 13:01 | 4 | 1 | DEAD | F | 145 | |
| UA9 | 12:54 | 12:58 | 4 | 2 | ALIVE | A | 112 | |
| UB0 | 12:59 | 13:07 | 8 | 2 | ALIVE | A | 146 | |
| UB1 | 13:08 | 13:11 | 3 | 2 | ALIVE | A | 147 | |
| UB2 | 13:02 | 13:06 | 4 | 2 | ALIVE | A | 143 | |
| UB3 | 13:07 | 13:15 | 8 | 2 | ALIVE | HG | 153 | |
| UB4 | 13:05 | 13:12 | 7 | 2 | ALIVE | A | 143 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UB5 | 13:38 | 13:40 | 2 | 2 | ALIVE | A | 142 |
| UB6 | 14:07 | 14:10 | 3 | 2 | ALIVE | A | 158 |
| UB7 | 14:03 | 14:06 | 3 | 2 | ALIVE | A | 168 |
| UB8 | 13:35 | 13:41 | 6 | 2 | ALIVE | A | 163 |
| UB9 | 13:36 | 13:38 | 2 | 2 | ALIVE | A | 140 |
| UC0 | 13:55 | 14:02 | 7 | 2 | ALIVE | A | 150 |
| UC1 | 13:42 | 13:48 | 6 | 2 | ALIVE | A | 145 |
| UC2 | 13:42 | 13:54 | 12 | 2 | ALIVE | A | 138 |
| UC3 | 13:50 | 13:54 | 4 | 2 | ALIVE | A | 144 |
| UC4 | 13:54 | 14:00 | 6 | 2 | ALIVE | A | 148 |
| UC5 | 14:05 | 14:12 | 7 | 2 | ALIVE | A | 196 |
| UC6 | 14:01 | 14:04 | 3 | 2 | ALIVE | A | 145 |
| UC7 | 14:02 | 14:08 | 6 | 2 | ALIVE | A | 145 |
| UC8 | 13:49 | 13:53 | 4 | 2 | ALIVE | A | 142 |
| UC9 | 13:55 | 14:01 | 6 | 2 | ALIVE | A | 133 |
| UD0 | 14:22 | 14:24 | 2 | 2 | ALIVE | A | 154 |
| UD1 | 14:39 | 14:41 | 2 | 2 | ALIVE | A | 142 |
| UD2 | 14:15 | 14:20 | 5 | 2 | ALIVE | A | 191 |
| UD3 | 14:42 | 14:47 | 5 | 2 | ALIVE | A | 187 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UD4 | 14:25 | 14:37 | 12 | 2 | ALIVE | A | 132 | |
| UD5 | 14:25 | 14:27 | 2 | 2 | ALIVE | A | 157 | |
| UD6 | 14:20 | 14:24 | 4 | 2 | ALIVE | A | 138 | |
| UD7 | 14:40 | 14:47 | 7 | 2 | ALIVE | A | 147 | |
| UD8 | 14:33 | 14:36 | 3 | 2 | ALIVE | A | 142 | |
| UD9 | 14:23 | 14:24 | 1 | 2 | ALIVE | A | 137 | |
| UE0 | 14:26 | 14:31 | 5 | 2 | ALIVE | A | 151 | |
| UE1 | 14:31 | 14:33 | 2 | 2 | ALIVE | A | 156 | |
| UE2 | 14:39 | 14:43 | 4 | 2 | ALIVE | A | 155 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UE3 | 14:29 | 14:39 | 10 | 2 | ALIVE | A | 132 |
| UE4 | 14:16 | 14:19 | 3 | 2 | ALIVE | A | 163 |

28 January 2000 - Testlot 59 : PL=3, Control - Water temp=40.1 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J87 | 13:54 | 13:56 | 2 | 2 | ALIVE | A | 152 |
| SZ7 | 10:59 | 11:05 | 6 | 2 | ALIVE | A | 140 |
| SZ8 | 10:58 | 11:09 | 11 | 2 | ALIVE | A | 129 |
| SZ9 | 13:15 | 13:20 | 5 | 2 | ALIVE | A | 198 |
| UE5 | 7:49 | 7:55 | 6 | 2 | ALIVE | A | 164 |
| UE6 | 7:55 | 8:01 | 6 | 2 | ALIVE | A | 163 |
| UE7 | 7:50 | 7:54 | 4 | 2 | ALIVE | A | 156 |
| UE8 | 7:56 | 8:04 | 8 | 2 | ALIVE | A | 181 |
| UE9 | 7:49 | 8:00 | 11 | 2 | ALIVE | A | 145 |
| UF0 | 8:06 | 8:19 | 13 | 2 | ALIVE | A | 182 |
| UF1 | 8:05 | 8:14 | 9 | 2 | ALIVE | A | 173 |
| UF2 | 8:07 | 8:12 | 5 | 2 | ALIVE | A | 174 |
| UF3 | 8:02 | 8:04 | 2 | 2 | ALIVE | A | 148 |
| UF4 | 8:01 | 8:05 | 4 | 2 | ALIVE | A | 141 |
| UF5 | 8:20 | 8:38 | 18 | 1 | ALIVE | B | 162 |
| UF6 | 8:16 | 8:20 | 4 | 2 | ALIVE | A | 141 |
| UF7 | 8:28 | 8:41 | 13 | 2 | ALIVE | A | 145 |
| UF8 | 8:21 | 8:35 | 14 | 2 | ALIVE | A | 150 |
| UF9 | 8:15 | 8:27 | 12 | 2 | ALIVE | A | 172 |
| UH0 | 8:44 | 8:48 | 4 | 2 | ALIVE | A | 142 |
| UH1 | 8:36 | 8:40 | 4 | 2 | ALIVE | A | 145 |
| UH2 | 8:42 | 8:49 | 7 | 2 | ALIVE | A | 148 |
| UH3 | 8:41 | 9:04 | 23 | 2 | ALIVE | A | 167 |
| UH4 | 8:39 | 8:44 | 5 | 2 | ALIVE | A | 159 |
| UH5 | 8:55 | 9:02 | 7 | 2 | ALIVE | A | 152 |
| UH6 | 8:52 | 8:55 | 3 | 2 | ALIVE | A | 165 |
| UH7 | 8:49 | 8:52 | 3 | 2 | ALIVE | A | 151 |
| UH8 | 8:49 | 8:51 | 2 | 2 | ALIVE | A | 162 |
| UH9 | 8:53 | 9:02 | 9 | 2 | ALIVE | A | 135 |
| UJ0 | 9:19 | 9:31 | 12 | 2 | ALIVE | A | 150 |
| UJ1 | 9:26 | 9:35 | 9 | 2 | ALIVE | A | 168 |
| UJ2 | 9:27 | 9:30 | 3 | 2 | ALIVE | A | 153 |
| UJ3 | 9:23 | 9:26 | 3 | 2 | ALIVE | A | 146 |
| UJ4 | 9:36 | 9:45 | 9 | 2 | ALIVE | A | 195 |
| UJ5 | 9:31 | 9:38 | 7 | 2 | ALIVE | A | 147 |
| UJ6 | 9:14 | 9:17 | 3 | 2 | ALIVE | A | 158 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UJ7 | 9:20 | 9:22 | 2 | 2 | ALIVE | A | 176 | |
| UJ8 | 9:15 | 9:19 | 4 | 2 | ALIVE | A | 149 | |
| UJ9 | 9:33 | 9:37 | 4 | 2 | ALIVE | A | 160 | |
| UK0 | 9:30 | 9:33 | 3 | 2 | ALIVE | A | 180 | |
| UK1 | 9:16 | 9:19 | 3 | 2 | ALIVE | A | 169 | |
| UK2 | 9:21 | 9:25 | 4 | 2 | ALIVE | A | 159 | |
| UK3 | 9:36 | 9:49 | 13 | 2 | ALIVE | A | 152 | |
| UK4 | 9:17 | 9:20 | 3 | 2 | ALIVE | A | 163 | |
| UK5 | 10:00 | 10:04 | 4 | 2 | ALIVE | A | 148 | |
| UK6 | 9:55 | 10:06 | 11 | 2 | ALIVE | A | 135 | |
| UK7 | 10:04 | 10:13 | 9 | 2 | ALIVE | A | 157 | |
| UK8 | 9:58 | 10:04 | 6 | 2 | ALIVE | A | 175 | |
| UK9 | 9:56 | 10:00 | 4 | 2 | ALIVE | A | 159 | |
| UL0 | 10:06 | 10:09 | 3 | 2 | ALIVE | A | 166 | |
| UL1 | 10:05 | 10:08 | 3 | 2 | ALIVE | A | 179 | |
| UL2 | 10:09 | 10:12 | 3 | 2 | ALIVE | A | 135 | |
| UL3 | 10:10 | 10:14 | 4 | 2 | ALIVE | A | 150 | |
| UL4 | 10:12 | 10:24 | 12 | 2 | ALIVE | A | 137 | |
| UL5 | 10:17 | 10:30 | 13 | 2 | ALIVE | A | 148 | |
| UL7 | 10:17 | 10:18 | 1 | 2 | ALIVE | A | 164 | |
| UL8 | 10:26 | 10:46 | 20 | 2 | ALIVE | H | 146 | |
| UL9 | 10:25 | 10:29 | 4 | 2 | ALIVE | A | 133 | |
| UM0 | 10:31 | 10:39 | 8 | 2 | ALIVE | A | 166 | |
| UM1 | 10:34 | 10:54 | 20 | 2 | ALIVE | H | 165 | |
| UM2 | 10:30 | 10:33 | 3 | 2 | ALIVE | A | 180 | |
| UM3 | 10:40 | . | . | 0 | UNKNOWN | X | 192 | |
| UM4 | 10:47 | 10:58 | 11 | 2 | ALIVE | A | 165 | |
| UM5 | 11:28 | 11:30 | 2 | 2 | ALIVE | A | 145 | |
| UM6 | 11:29 | 11:36 | 7 | 2 | ALIVE | A | 145 | |
| UM7 | 11:31 | 11:42 | 11 | 2 | ALIVE | A | 153 | |
| UM8 | 11:29 | 11:32 | 3 | 2 | ALIVE | A | 170 | |
| UM9 | 11:33 | 11:44 | 11 | 2 | ALIVE | A | 176 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UN0 | 11:46 | 11:48 | 2 | 2 | ALIVE | A | 167 |
| UN1 | 11:40 | 11:44 | 4 | 2 | ALIVE | H | 141 |
| UN2 | 11:44 | 11:52 | 8 | 2 | ALIVE | A | 164 |
| UN3 | 11:45 | 11:47 | 2 | 2 | ALIVE | A | 170 |
| UN4 | 11:37 | 11:39 | 2 | 2 | ALIVE | A | 143 |
| UN5 | 11:57 | 12:05 | 8 | 2 | ALIVE | ? | 142 |
| UN6 | 11:50 | 11:57 | 7 | 2 | ALIVE | A | 138 |
| UN7 | 11:52 | 11:56 | 4 | 2 | ALIVE | H | 142 |
| UN8 | 11:53 | 12:01 | 8 | 2 | ALIVE | A | 166 |
| UN9 | 11:56 | 12:00 | 4 | 2 | ALIVE | A | 136 |
| UP0 | 12:01 | 12:19 | 18 | 2 | ALIVE | A | 156 |
| UP1 | 12:01 | 12:04 | 3 | 2 | ALIVE | A | 145 |
| UP2 | 12:05 | 12:09 | 4 | 2 | ALIVE | A | 146 |
| UP3 | 12:03 | 12:07 | 4 | 2 | ALIVE | A | 155 |
| UP4 | 12:08 | 12:10 | 2 | 2 | ALIVE | A | 160 |
| UP5 | 12:09 | 12:11 | 2 | 2 | ALIVE | A | 151 |
| UP6 | 12:11 | 12:13 | 2 | 2 | ALIVE | A | 162 |
| UP7 | 12:16 | 12:34 | 18 | 2 | ALIVE | A | 144 |
| UP8 | 12:12 | 12:15 | 3 | 2 | ALIVE | A | 163 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | No. of Turb-N Tags recovered | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UP9 | 12:14 | 12:17 | 3 | 2 | ALIVE | A | 149 | |
| UR0 | 12:38 | 12:40 | 2 | 2 | ALIVE | A | 139 | |
| UR1 | 12:41 | 12:48 | 7 | 2 | ALIVE | A | 185 | |
| UR2 | 12:40 | 12:42 | 2 | 2 | ALIVE | A | 150 | |
| UR3 | 12:26 | 12:30 | 4 | 2 | ALIVE | A | 140 | |
| UR4 | 12:39 | 12:49 | 10 | 2 | ALIVE | A | 166 | |
| UR5 | 12:44 | 12:47 | 3 | 2 | ALIVE | A | 159 | |
| UR6 | 12:47 | 12:49 | 2 | 2 | ALIVE | A | 152 | |
| UR7 | 12:48 | 12:51 | 3 | 2 | ALIVE | A | 153 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UR8 | 12:49 | 12:55 | 6 | 2 | ALIVE | A | 165 |
| UR9 | 12:50 | 12:52 | 2 | 2 | ALIVE | A | 152 |
| US0 | 12:53 | 12:55 | 2 | 2 | ALIVE | A | 164 |
| US1 | 12:56 | 12:58 | 2 | 2 | ALIVE | A | 147 |
| US2 | 12:57 | 12:59 | 2 | 1 | ALIVE | A | 148 |
| US3 | 12:52 | 12:57 | 5 | 2 | ALIVE | A | 154 |
| US4 | 12:58 | 13:08 | 10 | 2 | ALIVE | A | 144 |
| US5 | 13:13 | 13:19 | 6 | 2 | ALIVE | A | 170 |
| US6 | 13:00 | 13:04 | 4 | 2 | ALIVE | A | 156 |
| US7 | 12:14 | 13:22 | 68 | 2 | ALIVE | A | 152 |
| US8 | 12:59 | 13:07 | 8 | 2 | ALIVE | A | 163 |
| UT0 | 13:36 | 13:47 | 11 | 2 | ALIVE | A | 153 |
| UT1 | 13:59 | 14:03 | 4 | 2 | ALIVE | A | 153 |
| UT2 | 13:48 | 13:53 | 5 | 2 | ALIVE | A | 190 |
| UT3 | 13:38 | 13:40 | 2 | 2 | ALIVE | A | 140 |
| UT4 | 13:55 | 14:03 | 8 | 2 | ALIVE | A | 158 |
| UT5 | 13:35 | 13:38 | 3 | 2 | ALIVE | A | 151 |
| UT6 | 13:35 | 13:38 | 3 | 2 | ALIVE | A | 173 |
| UT7 | 14:04 | 14:06 | 2 | 2 | ALIVE | A | 139 |
| UT8 | 13:46 | 13:51 | 5 | 2 | ALIVE | A | 176 |
| UT9 | 13:54 | 13:54 | 0 | 2 | ALIVE | A | 140 |
| UU1 | 14:08 | 14:19 | 11 | 2 | ALIVE | A | 150 |
| UU2 | 13:55 | 13:59 | 4 | 2 | ALIVE | A | 143 |
| UU3 | 13:39 | . | . | 0 | UNKNOWN | X | 135 |
| UU4 | 14:10 | 14:32 | 22 | 2 | ALIVE | A | 185 |

29 January 2000 - Testlot 60 : PL=2, Unit 5, Mid - Water temp=39.2 C

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AZ5 | 8:48 | . | . | 0 | DEAD | TF | 132 |
| J88 | 12:24 | 12:30 | 6 | 2 | ALIVE | A | 143 |
| J89 | 12:23 | 12:25 | 2 | 2 | ALIVE | A | 137 |
| J90 | 13:10 | 13:12 | 2 | 2 | ALIVE | A | 135 |
| J91 | 13:09 | 13:15 | 6 | 2 | ALIVE | A | 170 |
| J92 | 14:27 | 14:32 | 5 | 2 | ALIVE | A | 150 |
| J93 | 14:23 | 14:26 | 3 | 2 | ALIVE | A | 140 |
| JA0 | 11:03 | 11:07 | 4 | 2 | ALIVE | A | 140 |
| JA2 | 11:09 | 11:11 | 2 | 2 | ALIVE | H | 161 |
| JA3 | 11:11 | 11:16 | 5 | 2 | ALIVE | A | 163 |
| JA4 | 11:07 | 11:16 | 9 | 2 | ALIVE | A | 158 |
| JA5 | 11:19 | 11:24 | 5 | 2 | ALIVE | A | 161 |
| JA6 | 11:15 | 11:18 | 3 | 2 | ALIVE | A | 156 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| JA7 | 11:18 | 11:30 | 12 | 2 | ALIVE | A | 168 | |
| JA8 | 11:22 | 11:26 | 4 | 2 | ALIVE | A | 157 | |
| JA9 | 11:18 | 11:21 | 3 | 2 | ALIVE | A | 156 | |
| JB0 | 11:39 | 11:41 | 2 | 2 | ALIVE | A | 146 | |
| JB1 | 11:44 | 11:48 | 4 | 2 | ALIVE | A | 155 | |
| JB2 | 11:40 | 11:51 | 11 | 2 | ALIVE | A | 137 | |
| JB3 | 11:42 | 11:46 | 4 | 2 | ALIVE | A | 137 | |
| JB4 | 11:38 | 11:44 | 6 | 2 | ALIVE | A | 154 | |
| JB5 | 11:52 | 11:55 | 3 | 2 | ALIVE | A | 142 | |
| JB6 | 11:47 | 12:01 | 14 | 2 | ALIVE | A | 150 | |
| JB7 | 11:53 | 12:00 | 7 | 2 | ALIVE | A | 136 | |
| JB8 | 11:49 | 11:51 | 2 | 2 | DEAD | F | 132 | |
| JB9 | 11:59 | 12:04 | 5 | 2 | ALIVE | A | 144 | |
| JC0 | 12:06 | 12:07 | 1 | 2 | ALIVE | A | 143 | |
| JC1 | 12:01 | 12:05 | 4 | 2 | ALIVE | A | 143 | |
| JC2 | 12:08 | 12:11 | 3 | 2 | ALIVE | A | 147 | |
| JC3 | 12:05 | 12:07 | 2 | 2 | ALIVE | A | 158 | |
| JC4 | 12:03 | 12:09 | 6 | 2 | ALIVE | H | 145 | |
| JC5 | 12:12 | 12:15 | 3 | 2 | ALIVE | A | 143 | |
| JC6 | 12:17 | 12:21 | 4 | 2 | DEAD | N | 201 | |
| JC7 | 12:16 | 12:19 | 3 | 2 | ALIVE | A | 160 | |
| JC8 | 12:14 | 12:20 | 6 | 2 | ALIVE | A | 168 | |
| JC9 | 12:14 | 12:14 | 0 | 2 | ALIVE | A | 138 | |
| JD0 | 12:23 | 12:29 | 6 | 1 | ALIVE | A | 132 | |
| JD1 | 12:56 | 12:58 | 2 | 2 | ALIVE | A | 143 | |
| JD2 | 12:51 | 12:53 | 2 | 2 | ALIVE | A | 150 | |
| JD4 | 13:13 | 15:15 | 122 | 2 | ALIVE | A | 165 | |
| JD5 | 12:58 | 13:03 | 5 | 2 | ALIVE | A | 148 | |
| JD6 | 13:03 | 13:21 | 18 | 2 | ALIVE | A | 168 | |
| JD7 | 12:54 | 12:55 | 1 | 2 | ALIVE | A | 140 | |
| JD8 | 13:04 | 13:08 | 4 | 2 | ALIVE | A | 150 | |
| JD9 | 12:50 | 12:54 | 4 | 2 | ALIVE | H | 162 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JE0 | 13:16 | 13:19 | 3 | 2 | ALIVE | A | 166 |
| JE1 | 13:05 | 13:08 | 3 | 2 | ALIVE | A | 140 |
| JE2 | 12:52 | 13:02 | 10 | 2 | ALIVE | A | 152 |
| JE3 | 12:57 | 13:00 | 3 | 2 | ALIVE | A | 160 |
| JE4 | 13:01 | 13:02 | 1 | 2 | ALIVE | A | 132 |
| JE6 | 13:35 | 13:44 | 9 | 2 | ALIVE | A | 166 |
| JE7 | 13:36 | 13:43 | 7 | 2 | ALIVE | A | 147 |
| JE8 | 13:42 | 14:04 | 22 | 2 | ALIVE | A | 149 |
| JE9 | 13:37 | 13:40 | 3 | 2 | ALIVE | A | 148 |
| JF0 | 13:54 | 13:57 | 3 | 2 | ALIVE | A | 162 |
| JF1 | 13:46 | 13:53 | 7 | 2 | ALIVE | A | 142 |
| JF2 | 13:56 | 14:00 | 4 | 2 | ALIVE | A | 172 |
| JF3 | 13:57 | 14:19 | 22 | 2 | ALIVE | A | 202 |
| JF4 | 13:51 | 13:55 | 4 | 2 | ALIVE | A | 162 |
| JF5 | 14:08 | 14:18 | 10 | 2 | ALIVE | A | 140 |
| JF6 | 14:12 | 14:16 | 4 | 2 | ALIVE | A | 135 |
| JF7 | 14:01 | 14:06 | 5 | 2 | ALIVE | A | 148 |
| JF8 | 14:17 | 14:21 | 4 | 2 | ALIVE | A | 175 |
| JF9 | 14:07 | 14:11 | 4 | 2 | ALIVE | A | 145 |



APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Released | Recovered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| JH0 | 14:22 | 14:24 | 2 | 2 | ALIVE | A | 152 | |
| JH1 | 14:29 | 14:38 | 9 | 2 | ALIVE | A | 165 | |
| JH2 | 14:33 | 14:53 | 20 | 2 | ALIVE | H | 168 | |
| JH3 | 14:20 | . | . | 0 | DEAD | Z | 157 | |
| JH4 | 14:25 | 14:28 | 3 | 2 | ALIVE | A | 150 | |
| UU5 | 7:35 | 7:42 | 7 | 2 | ALIVE | A | 156 | |
| UU6 | 7:34 | 7:44 | 10 | 2 | ALIVE | A | 147 | |
| UU7 | 7:33 | 7:39 | 6 | 2 | ALIVE | A | 130 | |
| UU8 | 7:43 | 7:54 | 11 | 2 | ALIVE | A | 166 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UU9 | 7:40 | 7:42 | 2 | 2 | ALIVE | A | 142 |
| UV0 | 8:05 | 8:17 | 12 | 2 | ALIVE | A | 152 |
| UV1 | 7:45 | . | . | 0 | UNKNOWN | X | 148 |
| UV2 | 7:44 | . | . | 0 | DEAD | Z | 156 |
| UV3 | 8:01 | 8:15 | 14 | 2 | ALIVE | A | 147 |
| UV4 | 7:55 | 8:06 | 11 | 2 | ALIVE | A | 152 |
| UV6 | 8:18 | 8:21 | 3 | 2 | ALIVE | A | 141 |
| UV7 | 8:19 | 8:21 | 2 | 2 | ALIVE | A | 135 |
| UV8 | 8:19 | 8:25 | 6 | 2 | ALIVE | A | 153 |
| UV9 | 8:22 | 8:28 | 6 | 2 | ALIVE | A | 142 |
| UW0 | 8:38 | 8:40 | 2 | 2 | ALIVE | A | 130 |
| UW1 | 8:41 | 8:47 | 6 | 2 | ALIVE | A | 144 |
| UW2 | 8:33 | 8:40 | 7 | 2 | ALIVE | A | 141 |
| UW3 | 8:42 | 8:46 | 4 | 2 | ALIVE | H | 176 |
| UW4 | 8:35 | 8:37 | 2 | 2 | ALIVE | A | 161 |
| UW5 | 8:52 | 8:58 | 6 | 2 | ALIVE | A | 152 |
| UW6 | 8:46 | 8:52 | 6 | 2 | ALIVE | A | 152 |
| UW7 | 8:49 | 8:59 | 10 | 2 | ALIVE | A | 155 |
| UW8 | 8:45 | 8:49 | 4 | 2 | ALIVE | A | 136 |
| UX0 | 9:32 | 9:37 | 5 | 2 | ALIVE | A | 141 |
| UX1 | 9:23 | 9:25 | 2 | 2 | ALIVE | A | 172 |
| UX2 | 9:15 | 9:18 | 3 | 2 | ALIVE | A | 135 |
| UX3 | 9:10 | 9:12 | 2 | 2 | ALIVE | A | 134 |
| UX4 | 9:06 | 9:09 | 3 | 2 | ALIVE | A | 132 |
| UX5 | 9:27 | 9:30 | 3 | 2 | ALIVE | A | 146 |
| UX6 | 9:26 | . | . | 0 | UNKNOWN | X | 141 |
| UX7 | 9:20 | 9:27 | 7 | 2 | ALIVE | A | 145 |
| UX8 | 9:06 | 9:22 | 16 | 2 | ALIVE | A | 146 |
| UX9 | 9:12 | 9:14 | 2 | 2 | ALIVE | A | 140 |
| UY0 | 9:07 | 9:23 | 16 | 2 | ALIVE | A | 147 |
| UY1 | 9:18 | 9:19 | 1 | 2 | ALIVE | A | 167 |
| UY2 | 9:28 | 9:30 | 2 | 2 | ALIVE | A | 196 |
| UY3 | 9:31 | 9:33 | 2 | 2 | ALIVE | A | 168 |
| UY4 | 9:26 | 9:28 | 2 | 2 | ALIVE | A | 150 |
| UY5 | 10:18 | 10:32 | 14 | 2 | ALIVE | A | 163 |
| UY6 | 10:13 | 10:35 | 22 | 2 | ALIVE | H | 151 |
| UY7 | 10:14 | 10:17 | 3 | 2 | ALIVE | A | 150 |
| UY8 | 10:36 | 10:38 | 2 | 2 | ALIVE | A | 148 |
| UY9 | 10:15 | 10:38 | 23 | 2 | ALIVE | A | 142 |
| UZ0 | 10:39 | 10:48 | 9 | 2 | ALIVE | A | 164 |
| UZ1 | 10:43 | 10:47 | 4 | 2 | ALIVE | A | 158 |
| UZ2 | 10:45 | 10:48 | 3 | 2 | ALIVE | A | 133 |

APPENDIX TABLE E-2. Continued.

| Fish No. | Time | | | No. of Turb-N Tags recovered | Fish Data | | | |
|---|---|---|---|---|---|---|---|---|
| | Re-leased | Re-covered | At Large (min.) | | Alive/ Dead | Condition Codes | Total Length (mm) | Comments |
| UZ3 | 10:47 | 10:57 | 10 | 2 | ALIVE | A | 135 | |
| UZ4 | 10:40 | 10:45 | 5 | 2 | ALIVE | A | 132 | |
| UZ5 | 10:54 | 10:57 | 3 | 2 | ALIVE | A | 162 | |
| UZ6 | 10:58 | 11:02 | 4 | 2 | ALIVE | A | 154 | |
| UZ7 | 10:56 | 11:08 | 12 | 2 | ALIVE | A | 148 | |
| UZ8 | 10:59 | 11:06 | 7 | 2 | ALIVE | A | 195 | |
| UZ9 | 10:49 | 10:52 | 3 | 2 | ALIVE | A | 145 | |