Lower Passaic River Restoration Project

FISH AND DECAPOD FIELD REPORT FOR THE LATE SUMMER/EARLY FALL 2009 FIELD EFFORT

FINAL

Prepared for:

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Table of Contents

Tables ii

Figures ii

Acronyms iv

1 Introduction 1
- 1.1 Purpose and Scope 1
- 1.2 Document Overview 3

2 Sampling Design and Methodology 3
- 2.1 Sampling Zones and Locations 3
- 2.2 Sampling Methods 9
- 2.3 Deviations from Fish/Decapod QAPP 12
  - 2.3.1 Protocol modification forms 13
  - 2.3.2 Mummichog sampling efforts 14
  - 2.3.3 Collection of fish stomach and fish egg composite samples 15
- 2.4 Calculation of Fish Community Metrics 16
  - 2.4.1 Community metrics 16
  - 2.4.2 Catch-per-unit effort 16
- 2.5 Fish Gross External and Internal Pathology Evaluation 17

3 Fish Community Survey Results 17
- 3.1 Catch Summary 17
- 3.2 Results of Fish Community Survey Metrics 18
- 3.3 Results of Catch-Per-Unit Effort Calculations 30

4 Fish Gross External and Internal Pathology Evaluation 37

5 Summary and Conclusions 46

6 References 47

Appendix A Field Forms

Appendix B Field Notebook Entries

Appendix C Notes for Each Sampling Location

Appendix D Field Sampling and Sample Processing Photos

Appendix E Protocol Modification Forms

Appendix F **Revised SOP for Fish Surveys, Collection, and Tissue Sampling**

Appendix G **Catch Summary**

Appendix H **Chain-of-Custody Forms**

Tables

Table 1.	Fish and decapod data types and data use objectives	2
Table 2.	Reaches per zone	4
Table 3.	Summary of sampling equipment deployed	9
Table 4.	Water quality measurements recorded during electrofishing attempts	10
Table 5.	Fish feeding guilds and preferences	20
Table 6.	Catch data by species and guild for all organisms collected	20
Table 7.	CPUE by sampling method for the LPRSA	30
Table 8.	CPUE by sampling method for each reach of the LPRSA	31
Table 9.	Pathology evaluation totals and percentages by abnormality type	41
Table 10.	Summary of pathology evaluation results by reach	42
Table 11.	Summary of internal and external abnormalities by species	44

Figures

Figure 1.	Fish and decapod sampling locations in the LPRSA during the late summer/early fall 2009 field sampling effort	5
Figure 2.	Fish and decapod sampling locations where specimens were collected during the late summer/early fall 2009 field effort	7
Figure 3.	Percent dominant taxa, species richness, and Simpson's diversity index for each reach and for the LPRSA	19
Figure 4.	Relative abundance of blue crab and fish species collected in the LPRSA (percent of total number of individuals collected)	23
Figure 5.	LPRSA species abundance (number of individuals)	24
Figure 6.	Reach 1 species abundance (number of individuals)	25
Figure 7.	Reach 2 species abundance (number of individuals)	25
Figure 8.	Reach 3 species abundance (number of individuals)	26
Figure 9.	Reach 4 species abundance (number of individuals)	26
Figure 10.	Reach 5 species abundance (number of individuals)	27
Figure 11.	Reach 6 species abundance (number of individuals)	27
Figure 12.	Reach 7 species abundance (number of individuals)	28

Figure 13.	Reach 8 species abundance (number of individuals)	28
Figure 14.	Comparison of relative abundance of fish caught in the lower portion of the LPRSA in fall 1999 and late summer/early fall 2009	29
Figure 15.	CPUE for organisms collected by boat electrofishing in the freshwater reaches of the LPRSA	33
Figure 16.	CPUE for organisms collected by backpack electrofishing in the freshwater reaches of the LPRSA	34
Figure 17.	CPUE for organisms collected by crab trap in the LPRSA	34
Figure 18.	CPUE for organisms collected by crayfish trap in the LPRSA	35
Figure 19.	CPUE for organisms collected by eel trap in the LPRSA	35
Figure 20.	CPUE for organisms collected by minnow trap in the LPRSA	36
Figure 21.	CPUE for organisms collected by gillnet in the LPRSA	36
Figure 22.	CPUE for organisms collected by trotline in the LPRSA	37
Figure 23.	Fish and decapod sampling locations where specimens were collected for pathology evaluation during the late summer/early fall 2009 field effort	39

Acronyms

CPG	Cooperating Parties Group
CPUE	catch-per-unit effort
ERA	ecological risk assessment
FS	feasibility study
HHRA	human health risk assessment
LPRSA	Lower Passaic River Study Area
NOAA	National Oceanic and Atmospheric Administration
PFD	problem formulation document
ppt	parts per thousand
QAPP	quality assurance project plan
RI	remedial investigation
RM	river mile
SOP	standard operating procedure
USEPA	US Environmental Protection Agency
USGS	US Geological Survey
Windward	Windward Environmental LLC

1 Introduction

This data summary report presents results from the first of three proposed field efforts to survey the fish community in the Lower Passaic River Study Area (LPRSA). This initial field effort, which was conducted in the late summer/early fall, occurred between August 10 and September 19, 2009, with a supplemental effort on October 13, 2009. It was conducted under the authority of the May 2007 Settlement Agreement (Section IX.37.d.) (USEPA 2007) between the US Environmental Protection Agency (USEPA) and the Cooperating Parties Group (CPG), a consortium of approximately 70 companies that agreed to complete the remedial investigation and feasibility study (RI/FS) of the 17.4-mile stretch of the Passaic River between Dundee Dam and Newark Bay. Subsequent surveys are planned for winter 2010 and spring/early summer 2010.

A subset of the specimens collected is scheduled for tissue chemical analysis, the results of which will be reported separately. This document focuses on the results of the late summer/early fall 2009 field effort to collect fish and decapod specimens and on the visual observations and measurements (e.g., species, count, length, weight, gross physical abnormalities) made to characterize the fish community as a whole.

1.1 Purpose and Scope

This report is part of the ongoing investigations of the LPRSA RI/FS. The data reported here are intended to support the planned ecological risk assessment (ERA) and human health risk assessment (HHRA) lines of evidence described in *LPRSA Human Health and Ecological Risk Assessment Streamlined 2009 Problem Formulation* (Windward and AECOM 2009), hereafter referred to as the Problem Formulation Document (PFD). The goals of this field effort are presented in the *Lower Passaic River Restoration Project Quality Assurance Project Plan: Fish and Decapod Crustacean Tissue Collection for Chemical Analysis and Fish Community Survey* (Windward 2009), hereafter referred to as the Fish/Decapod Quality Assurance Project Plan (QAPP).

Six data types were proposed for collection during the late summer/early fall 2009 field effort: fish and decapod tissue samples for chemical analysis, fish egg tissue samples for lipid content analysis, fish egg counts (or mass measurements), fish gross internal and external pathology observations, fish community survey observations, and fish stomach content samples for taxonomic identification. The data use objectives (as presented in the Fish/Decapod QAPP) and the collection status of each data type are presented in Table 1.

Table 1. Fish and decapod data types and data use objectives

Data Type	Status	Data Use Objectives
Decapod tissue chemistry	Tissue samples were collected during the late summer/early fall 2009 field effort and submitted for chemical analysis.	decapod tissue-residue evaluations
		dietary evaluation for fish, bird, mammal, and human receptors
Fish tissue chemistry	Tissue samples were collected during the late summer/early fall 2009 field effort and submitted for chemical analysis.	fish tissue-residue evaluations
		dietary evaluation for fish, bird, mammal, and human receptors
Fish egg tissue lipid content	Gravid specimens were not collected during the late summer/early fall 2009 field effort; the collection of egg tissue samples will be attempted in spring 2010.[a]	develop ratios to estimate egg residues in the fish tissue residue evaluation
Fish egg counts (or mass)	Gravid specimens were not caught during the late summer/early fall 2009 field effort; the collection of egg tissue samples will be attempted in spring 2010.	overall health assessment of fish
Fish pathology evaluation data	Gross internal and external pathology evaluations were completed during the late summer/early fall 2009 field effort.	overall health assessment of fish
Fish community survey data	First community survey was completed during the late summer/early fall 2009 field effort; second and third community surveys are planned for winter and spring 2010, respectively.	overall health assessment of fish
Fish stomach content taxonomy	Fish stomach samples were not collected during the late summer/early fall 2009 field effort; literature sources will be used for stomach content taxonomy information.[a]	identification of prey species for dietary evaluation of fish receptors

[a] Additional information on the status of these data types is presented in Section 2.3.3.

The late summer/early fall 2009 sampling effort included the collection of fish and decapod specimens for tissue chemical analysis, gross internal and external pathology evaluation, and the first of three fish community surveys scheduled for the Lower Passaic River Restoration Project. Fish egg tissue samples and stomach content samples were not collected because of the lack of sufficient specimens for the analysis (further described in Section 2.3.3). Although stomach contents were not submitted to an outside laboratory for taxonomy, stomach content examinations were conducted during fish health assessments, when possible. Fish and decapod tissue chemistry data will be presented in a separate data report.

Fish health condition observations (i.e., gross internal and external pathology evaluations) and the fish community survey data are intended to assess the overall health of fish populations in the LPRSA. When compiled with results from the other fish community surveys, the fish community data reported herein will be used to describe relative species abundance, community structure, and other indices of the fish population present in the LPRSA. The results of the fish community survey, the pathology evaluation, and the remaining lines of evidence for fish and decapods, as specified in the PFD (Windward and AECOM 2009), will be presented and interpreted in the baseline ERA.

1.2 DOCUMENT OVERVIEW

This document has been organized to present a summary of the late summer/early fall field event followed by the results of the fish community survey and fish pathology evaluations. The sampling design and methodology is presented in Section 2. A summary of the overall catch data and fish community analysis are presented in Section 3. Section 4 summarizes the results of the fish pathology evaluation for the species captured and evaluated. A summary and conclusions are presented in Section 5, and references are provided in Section 6. The text is supported by the following appendices:

- Appendix A – Field Forms
- Appendix B – Field Notebook Entries
- Appendix C – Notes for Each Sampling Location
- Appendix D – Field Sampling and Sample Processing Photos (on CD)
- Appendix E – Protocol Modification Forms
- Appendix F – Revised SOP for Fish Surveys, Collection, and Tissue Sampling
- Appendix G – Catch Summary
- Appendix H – Chain-of-Custody Forms

2 Sampling Design and Methodology

The sampling design and methodology are presented in the Fish/Decapod QAPP (Windward 2009). The scope of the effort for this report was to document the fish community of the LPRSA in late summer/early fall and to record observations on the gross internal and external pathological condition of selected specimens.

2.1 SAMPLING ZONES AND LOCATIONS

As specified in the Fish/Decapod QAPP (Windward 2009), for the purpose of this study, the LPRSA is divided into an estuarine zone and a freshwater zone. The estuarine zone is defined as the LPRSA between River Mile (RM) 0 and RM 10, and the freshwater zone is defined as the LPRSA above RM 10 (from RM 10 to RM 17.4). Five 2-mile reaches are defined in the estuarine zone; two 2-mile reaches and one 3.4-mile reach are defined in the freshwater zone.

The sampling effort focused on one or two reaches at a time, starting in Reach 3 during the week of August 10, 2009, and ending in Reach 8 during the week of September 7, 2009 (Table 2). Reaches 1, 4, and 5 were resampled during the week of September 14, 2009, to supplement earlier catches. Six locations between approximately RM 0 and

RM 4 were sampled on October 13, 2009, for the supplemental collection of mummichog (further described in Section 2.3.2).

Table 2. Reaches per zone

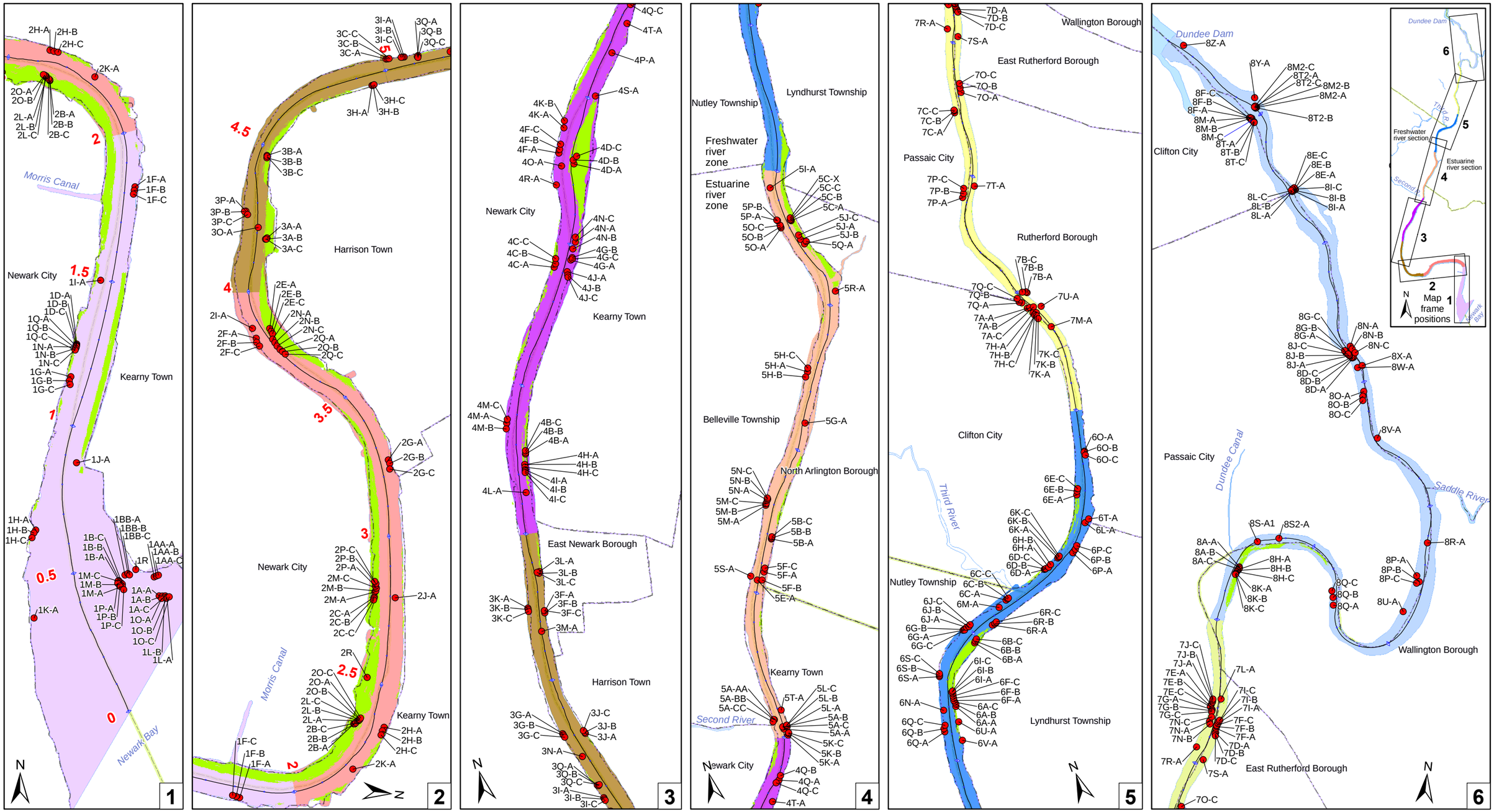
Zone	Reach	RM	Sampling Date[a]
Estuarine zone (RM 0 to RM 10)	1	RM 0 – RM 2	August 31, 2009[b]
	2	RM 2 – RM 4	August 31, 2009
	3	RM 4 – RM 6	August 10, 2009
	4	RM 6 – RM 8	August 17, 2009[b]
	5	RM 8 – RM 10	August 17, 2009[b]
Freshwater zone (RM 10 to RM 17.4)	6	RM 10 – RM 12	August 24, 2009
	7	RM 12 – RM 14	August 24, 2009
	8	RM 14 – RM 17.4	September 7, 2009

[a] Refers to the first day of the week during which the reach was sampled.

[b] Reaches 1, 4, and 5 were resampled during the week of September 14, 2009, to supplement earlier catches.

RM – river mile

The fish and decapod sampling locations in each reach are presented on Figure 1. The numbers of sampling locations were split evenly between the west and east banks. Figure 2 presents the sampling locations, by method, of where fish and crab were caught during the field effort.



Mudflats and gravel flats are areas where the river bottom slope is less than or equal to 6° and the depth is >-4.5 feet NGVD29 (i.e.>-2 feet MLLW). Flats along the navigation channel were determined based on the 2004 bathymetry data from Rogers Surveying (for USACE). The Kearney Point mudflat is outside the survey area and was estimated from NOAA bathymetry.

Figure 1. Fish and decapod sampling locations in the LPRSA during the late summer/early fall 2009 field sampling effort

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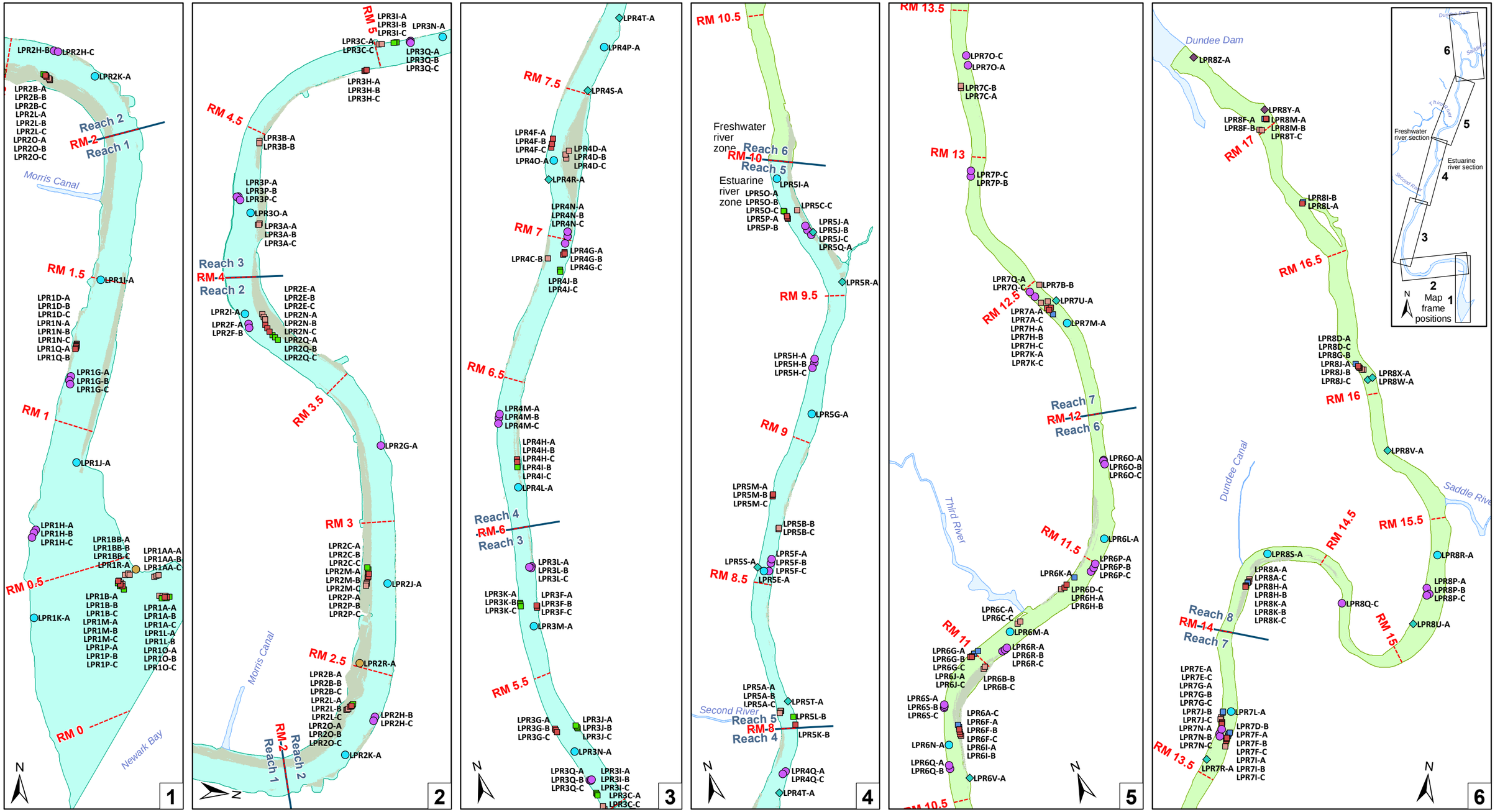

Wind Ward environmental LLC

0 0.5 1 Kilometers

0 0.25 0.5 Miles

- Backpack electrofishing
- Boat electrofishing
- Dip net
- Gillnet
- Trotline
- Crab trap
- Crayfish trap
- Eel trap
- Minnow trap
- Mudflat
- River mile
- Sampling reach boundary
- LPRSA
  - Estuarine river section
  - Freshwater river section
  - Upper Passaic River or tributary

Mudflats and gravel flats are areas where the river bottom slope is less than or equal to 6° and the depth is >-4.5 feet NGVD29 (i.e.>-2 feet MLLW). Flats along the navigation channel were determined based on the 2004 bathymetry data from Rogers Surveying (for USACE). The Kearney Point mudflat is outside the survey area and was estimated from NOAA bathymetry.

Figure 2. Fish and decapod sampling locations where specimens were collected during the late summer/early fall 2009 field effort

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2.2 SAMPLING METHODS

Several methods, including minnow traps, crab traps, trotlines, dip nets, gillnets, and boat and backpack electrofishers were used to collect fish and decapod specimens in all reaches of the LPRSA. Eel traps were used in Reaches 1 through 5 (RM 0 to RM 10). Crayfish traps were used in Reaches 6 through 8 (RM 10 to RM 17.4). These methods are detailed in standard operating procedures (SOPs) included as attachments (e.g., Attachments J and L) to the Fish/Decapod QAPP (Windward 2009). Table 3 presents a summary of the reaches and habitat types in which sampling equipment was deployed. Sampling locations are tallied in Appendix A (the location data summary table). Habitat features and shoreline conditions for each sampling location were documented in the field notebook (Appendix B) and are compiled in Appendix C. Photos of the various sampling methods are presented in Appendix D.

Table 3. Summary of sampling equipment deployed

Sampling Equipment	Reach in Which Deployed	Number of Locations Sampled per Reach	General Habitat Type
Minnow and crab trap	1 – 8	3 – 5	mudflats or shallow area with varied substrate; overhanging or shoreline vegetation present at most locations; bulkhead and riprap often present
Crayfish trap	6 – 8	3 – 4	mudflats or shallow area with varied substrate; overhanging or shoreline vegetation present at most locations; bulkhead and riprap often present
Eel trap	1 – 5	3	mudflat (in Reaches 1 through 3) or area with riprap and/or bulkhead structures (Reaches 3 through 5); overhanging or shoreline vegetation present at most locations
Trotline	1 – 8	3 – 5	deeper water with riprap, bulkhead structures, or woody debris, some locations between structures (e.g., barges, pilings); overhanging or shoreline vegetation present at most locations
Gillnet	1 – 8	2 – 3	deeper water with riprap or rocky substrate; overhanging or shoreline vegetation present at most locations
Boat electrofisher	4 – 8	3 – 4	deeper water with riprap or rocky substrate; overhanging or shoreline vegetation present at most locations
Dip net	1 – 2	1	vegetated mudflats in shallow water (< 1 ft deep); limited locations sampled with dip nets
Backpack electrofisher	8	2	shallow, upstream locations on east bank not accessible by boat; limited locations sampled using backpack electrofisher

The sampling design and target sampling locations were presented in the Fish/Decapod QAPP (Windward 2009). Target sampling locations were placed in known or likely habitat areas within each reach throughout the LPRSA; however, additional target sampling areas were identified in the field. In accordance with the Fish/Decapod QAPP, when traps were used (i.e., minnow, crab, crayfish, or eel traps),

three traps were placed at each sampling location. Three trotlines were also set at a given sampling location.

Traps, trotlines, and gillnets were deployed during the afternoon or early evening and retrieved the following morning or when practicable given the tide level. Up to five attempts per sampling method were specified in the Fish/Decapod QAPP (Windward 2009), and this objective was met at all sampling locations, except when gear for a particular sampling method (e.g., trap, trotline, gillnet) was lost and not able to be replaced for further attempts at that particular location. Per agreement between USEPA and CPG, additional attempts were conducted at specific locations within Reaches 1, 4, and 5 to supplement the catch from the first five attempts. Dip nets were used in two locations, and a limited number of attempts were made.

All fishing attempts were bank-specific, occurring on either the west or east bank, with the exception of two gillnet locations (i.e., LPR8S and LPR8R), which were positioned mid-channel because shallow water along the shoreline prevented the deployment of gillnets.

Bait varied by method. Traps were baited with bologna, cheese dough, chicken legs, blood dough, commercially processed blue crab, and sardines. Trotlines were baited with shrimp, worms, and chicken livers.

Boat electrofishing was conducted in Reaches 4 through 8; backpack electrofishing was conducted only in Reach 8. Water quality parameters, including salinity, conductivity, and temperature, were recorded during each electrofishing attempt (Table 4). Some backpack and boat electrofishing attempts occurred concurrently, and water quality measurements were recorded by either one or both crews. In addition, water depth was recorded at locations where electrofishing was successfully attempted (Table 4). Water depth was not measured at locations in Reaches 6 and 7 on August 25 and 26, 2009, when the water temperature exceeded the QAPP-specified maximum, and, as a result, electrofishing did not occur at these locations during these attempts (Table 4).

Table 4. Water quality measurements recorded during electrofishing attempts

Date	Time	Sampling Location	Attempt No.	Salinity (ppt)	Conductivity (□S/cm)	Temperature (°C)	Water Depth (ft)
Boat Electrofishing Attempts							
8/25/2009	1355	Reach 7[a, b]	1	0.2	371	25.3	nd
	1405		2	0.2	373	25.7	nd
	1408		3	0.2	371	25.6	nd
	1412		4	0.2	368	25.3	nd
	1423	Reach 6[a, b]	1	0.2	369	25.6	nd
	1426		2	0.2	371	25.6	nd
	1429		3	0.2	372	25.2	nd

Table 4. Water quality measurements recorded during electrofishing attempts

Date	Time	Sampling Location	Attempt No.	Salinity (ppt)	Conductivity (□S/cm)	Temperature (°C)	Water Depth (ft)
8/26/2009	0705	Reach 6[a, b]	1	0.2	397	24.9	nd
	0730[c]		2	0.2	392	24.9	nd
8/27/2009	1138	LPR7R[b]	1	0.2	384	24.2	6.9
	1255	LPR7S[b]	1	0.2	384	24.2	nd
	1312	LPR7T[b]	1	0.2	391	24.9	7.6
	1330	LPR7U[b]	1	0.2	395	25.0	3.7
	1400	LPR6T[b]	1	0.2	394	25.4	7.7
	1432	LPR6U[b]	1	0.2	396	25.7	3.4
	1452	LPR6V[b]	1	0.2	397	25.8	3.5
9/7/2009	1240	LPR8U	1	0.3	560	22.1	8.0
	1315	LPR8V	1	0.3	530	22.6	4.8 – 6.0
	1400	LPR8W	1	0.3	528	23.1	nd
	1414	LPR8X	1	0.3	528	23.1	nd
9/9/2009	0814	LPR8U	3	0.6	1,127	21.3	6.0
	0843	LPR8V	3	0.6	1,073	21.5	2.5
	1006	LPR8X	3	0.6	1,070	21.6	4.9
	1014	LPR8W	3	0.6	1,073	21.6	4.5
9/12/2009	0730	LPR8U	5	0.6	1,009	18.9	4.7
	0930	LPR8V	5	0.6	933	18.9	4.0
	1057	LPR8X	5	0.5	962	19.3	2.0 – 6.0
	1116	LPR8W	5	0.6	986	19.3	2.0 – 6.0
9/17/2009	0940	Reach 5[a]	1	0.7	1,230	20.3	2.5
			2	0.7	1,210	20.3	8.5
	1252	Reach 4[a]	1	1.3	2,315	20.2	2.0
			2	1.3	2,234	20.2	8.0
	1259		3	0.6	1,123	20.2	2.0
			4	0.6	1,125	20.2	8.0
9/18/2009	1025	LPR5Q	1	0.6	1,150	19.9	4.0
	1103	LPR5R	1	0.6	1,146	20.0	3.5
	1115	LPR5S	1	0.7	1,197	20.2	6.0
	1157	LPR5T	1	0.7	1,188	20.2	5.0
	1319	LPR4R	1	0.6	1,146	20.4	8.0
	1350	LPR4S	1	0.6	1,089	20.4	4.0
	1410	LPR4T	1	0.6	1,081	20.2	10.0

Table 4. Water quality measurements recorded during electrofishing attempts

Date	Time	Sampling Location	Attempt No.	Salinity (ppt)	Conductivity (□S/cm)	Temperature (°C)	Water Depth (ft)
9/19/2009	0935	LPR5Q	2	0.7	1,181	19.8	5.0
	1012	LPR5R	2	0.7	1,211	19.8	7.0
	1100	LPR5S	2	0.7	1,267	20.1	5.0
	1133	LPR5T	2	0.7	1,322	20.0	9.0
	1210	LPR4T	2	0.7	1,298	20.0	7.0
	1359	LPR4R	2	0.6	1,137	20.1	8.0
	1424	LPR4S	2	0.6	1,098	20.0	6.0
Backpack Electrofishing Attempts							
9/8/2009	1228	LPR8Y	1, 2	0.3	543	22.2	2.8
	1315	LPR8Z	1, 2	0.3	545	22.3	2.1
9/10/2009	0840	LPR8Z	3	0.6	1,080	20.8	2.5
	0915		4	0.6	1,082	20.8	3.1
	0955	LPR8Y	3	0.6	1,096	20.7	3.2
	1035		4	0.6	1,095	20.7	2.4
9/11/2009	1047	LPR8Z	5	0.6	1,058	19.6	2.0
	1149	LPR8Y	5	0.6	1,051	19.2	2.2

[a] Water quality measurements were initially recorded at several locations in Reaches 4, 5, 6, and 7 to determine if the water temperature was lower than 18 °C, which is the standard specified in the QAPP for electrofishing. Because water temperature exceeded the QAPP-specified maximum, electrofishing did not occur at these locations during these attempts. Following discussion with USEPA, subsequent electrofishing attempts proceeded regardless of the maximum temperature standard (Protocol Modification Form No. 5, Appendix E).

[b] A modified boat electrofishing method was used, with a backpack electrofishing unit mounted on the bow of the boat. This method was not successful and was abandoned after the initial trial.

[c] Measurement time was estimated.

na – not applicable

nd – no data

ppt – parts per thousand

QAPP – quality assurance project plan

USEPA – US Environmental Protection Agency

2.3 DEVIATIONS FROM FISH/DECAPOD QAPP

Deviations from the Fish/Decapod QAPP (Windward 2009) became necessary for certain sampling procedures, sampling locations, and electrofishing procedures. Any deviations made were documented in the field notebook and on protocol modification forms when necessary.

2.3.1 Protocol modification forms

Protocol modification forms (Nos. 2 through 6, 12, and 13,[1] Appendix E) were prepared to detail changes made during the field effort. This section provides a summary of the protocol modification forms in the order in which they were prepared.

- Location LPR3C was intended to target a mudflat area for the collection of mummichog. Because the original coordinates were for a spot next to a steel bulkhead, the sampling location was relocated approximately 1,100 ft upstream to the nearest available mudflat area on the west bank of the river (Protocol Modification Form No. 2, Appendix E).
- Organisms that were partially eaten or otherwise compromised were not retained for tissue analysis or pathological evaluation but were tallied as part of the community survey (Protocol Modification Form No. 3, Appendix E).
- The location of LPR2C was moved approximately 1,300 ft downstream of the target sampling location (Protocol Modification Form No. 4, Appendix E) at the request of Tierra Solutions, Inc., which was conducting a water column monitoring and sediment coring program on and near the targeted mudflat location and expressed concern that tissue sampling efforts at LPR2C could potentially affect their activities. The relocated LPR2C sampling location was in the same mudflat area as the original sampling location.
- Electrofishing was first attempted in Reaches 6 and 7 during the week of August 25, 2009; however, the water temperature exceeded the maximum (18 °C) specified for electrofishing in the Fish/Decapod QAPP (Windward 2009). Following conversations with CPG and USEPA (Protocol Modification Form No. 5, Appendix E), the sampling crew proceeded with electrofishing attempts in Reaches 4, 5, 6, 7, and 8 – even if the water temperature exceeded the Fish/Decapod QAPP-specified maximum of 18 °C because potential damage from electrofishing would not affect the chemical analysis of the tissue. The water temperatures for all electrofishing attempts are presented in Table 4.

[1] Protocol Modification Forms Nos. 1 and 7 through 11 refer to changes to laboratory analytical procedures and will be presented and discussed in the fish/decapod tissue data report.

- At the request of USEPA, on September 1 and 2, 2009, dip nets were used at several vegetated mudflat areas and sampling locations in Reaches 1 and 2 in an attempt to collect mummichog; however, this method proved to be unsuccessful and was abandoned. The use of a seine net as a possible sampling method was also proposed (Protocol Modification Form No. 6, Appendix E). The Revised SOP for Fish Surveys, Collection, and Tissue Sampling that includes methods for both dip nets and seine nets is presented in Attachment F.
- Per agreement between USEPA and CPG during a call on September 11, 2009, additional attempts were conducted at specific locations within Reaches 1, 4, 5, and 6 to supplement the catch from the first five attempts (Protocol Modification Form No. 12, Appendix E).
- During a conference call between USEPA and CPG on August 31, 2009, it was suggested that any captured mummichog might be escaping from the traps before retrieval the following day and that a shortened soak period might increase the likelihood of retaining captured mummichog. Minnow traps were deployed and retrieved after an approximate 2-to-3-hour soak period on September 2, 2009, to determine if the shorter soak time would yield more mummichog (Protocol Modification Form No. 13, Appendix E).

2.3.2 Mummichog sampling efforts

Very few mummichog and darter or killifish were caught at the minnow trap locations designated in the Fish/Decapod QAPP (Windward 2009), and several sampling locations were moved to shallower waters in subsequent attempts to collect these species. Specifically, minnow traps in Reach 1 (at sampling locations LPR1AA and LPR1BB) were relocated on September 2, 2009, to shallow vegetated mudflats and checked at shorter intervals (i.e., 2 hours) per National Oceanic and Atmospheric Administration (NOAA) instructions (as documented in the field notebook on September 2, 2009; Appendix B). This effort was unsuccessful with regard to capturing any mummichog; however, 20 Atlantic silversides were caught.

Additional traps were deployed at certain locations in Reaches 2 and 5 in an attempt to increase the number of mummichog caught. Two test traps were deployed in Reach 2 at approximately RM 2.2 in areas with deeper water adjacent to mudflats, as agreed upon with USEPA on August 19, 2009. However, these traps were never recovered, presumably because of the strong current. Following the collection of the first mummichog specimen at sampling location LPR5C in Reach 5 on August 19, 2009, five minnow traps were tied together in a line and deployed and retrieved in the same area as sampling location LPR5C from August 19 to 21, 2009. However, this effort was unsuccessful and abandoned after three attempts; no fish specimens were collected. Also, at the request of USEPA, additional traps were placed at LPR2B on September 4,

2009. An additional 32 Atlantic silversides, 38 mummichog, and 1 white perch were collected in these traps.

After the use of dip nets to capture mummichog was deemed unsuccessful (Protocol Modification Form No. 6, Appendix E), USEPA and CPG jointly decided to include another mummichog collection effort during the planned spring 2010 fish community survey and to retain for possible tissue analysis all specimens of Atlantic silverside (in addition to all mummichog and darter or killifish), which was not a target species but was most frequently caught in minnow traps.

A supplemental field effort to collect mummichog, as requested by NOAA, USEPA, and the New Jersey Department of Environmental Protection, was conducted on October 13, 2009 (field notebook entries for this effort are presented in Appendix B). Six locations were identified between approximately RM 0 and RM 4. Minnow traps (baited with bologna) were deployed at these locations and allowed to soak for approximately 1 to 2.5 hours. Cast nets were also deployed two to six times at each location. The catch for each method at these locations ranged from zero to a few specimens. Two mummichog were caught at Location 5 (RM 2.7) during the October 13, 2009, effort. Other species caught during the October 13, 2009, effort included Atlantic silverside, striped bass, white perch, mud crab, and blue menhaden.

2.3.3 Collection of fish stomach and fish egg composite samples

The Fish/Decapod QAPP (Windward 2009) included the collection of additional specimens of target invertivores/omnivores (i.e., white perch and channel catfish/brown bullhead) and carnivores/piscivores (i.e., American eel and largemouth bass) for a taxonomic analysis of stomach contents and additional specimens of target gravid benthic omnivore forage fish (i.e., mummichog and darter or killifish) for analysis of fish egg lipid content. The taxonomic analysis of stomach contents is one evaluation technique, along with literature review, to determine prey dietary fractions. Fish egg lipid data were to be used to develop adult-to-egg lipid ratios and estimate egg chemical concentrations from adult chemical concentrations. A target of 5 to 10 stomach content samples and 10 fish egg composites from each species described above (within its respective zone) was established, depending on the availability of fish collected for chemical analysis. However, because too few target (and no gravid) specimens were collected for chemical analysis, no specimens were collected for taxonomic analysis of stomach contents, fish egg counts (or mass measurements) or fish egg lipid content. Dietary fractions based on literature review will be used in the risk assessment in lieu of stomach content taxonomy. The collection of fish eggs for lipid content analysis and egg counts (or mass measurements) will be pursued during the spring 2010 fish community survey.

2.4 CALCULATION OF FISH COMMUNITY METRICS

Several assemblage metrics were used to characterize the LPRSA fish community in terms of diversity and abundance. These included: species richness, percent dominant taxa, Simpson's diversity index, and catch-per-unit effort (CPUE).

2.4.1 Community metrics

Species richness and Simpson's diversity index are measures of biological diversity, or the overall number of species that inhabit a system. Diversity/richness indices are calculations that characterize of the relative condition of a system in terms of its ability to support a "normal" or expected fish community. Higher diversity typically indicates greater habitat diversity and lower levels of stress in a system (i.e., physical, chemical, and/or biological).

Species richness is the raw number of species collected in an area. Simpson's diversity index measures the probability that two individuals, selected randomly from a sample, will belong to the same species. This index ranges from 0 to 1; the greater the value, the greater the sample diversity. Species richness can be biased by rare species, whereas Simpson's diversity index gives greater weight to more abundant species. Thus, the addition of rare species to a sample causes only small changes to Simpson's diversity index.

$$\text{Simpson's diversity index} = 1 - \sum (n/N)^2 \qquad \textbf{Equation 1}$$

Where:

n = the total number of organisms of a particular species
N = the total number of organisms of all species

In addition, percent dominant taxa is an indicator of community dominance by species tolerant to stress. Percent dominant taxa is calculated as the number of specimens in the three most abundant species divided by the total number of specimens.

2.4.2 Catch-per-unit effort

CPUE is calculated as the ratio of the number of specimens caught at a given location divided by the total time required to catch those specimens at that location. CPUE was calculated by sampling method/gear type for each reach and for the entire LPRSA. The time interval for each sampling method ranged from 15 minutes (e.g., backpack electrofishing) to overnight (e.g., trotlines) (see Section 2.3). In some instances, traps, nets, or trotlines were lost or otherwise compromised because of weather conditions or vandalism. These lost attempts were not included in the calculation of the CPUE.

2.5 FISH GROSS EXTERNAL AND INTERNAL PATHOLOGY EVALUATION

Fish pathology evaluations were conducted on the first five specimens of each fish species collected. As specified in the Fish/Decapod QAPP (Windward 2009), both target and non-target fish species were included in this evaluation; however, target species were prioritized for tissue chemistry analysis over the pathology evaluation.

As part of the pathology evaluation, each fish was examined for gross external abnormalities, which involved an inspection of the body surface, body form, eyes, fins, gills, snout, head, isthmus, urogenital opening, anus, barbells, bronchial cavity, jaws, and opercle. Each fish was photographed, weighed, and measured (length), and all observations were noted per Attachment J: SOP—Fish Surveys, Collection, and Tissue Sampling of the Fish/Decapod QAPP (Windward 2009). Following the external examinations, the fish were dissected according to the US Geological Survey (USGS) fish pathology evaluation guidelines (USGS 2002) and examined for gross internal abnormalities. The internal examination included the inspection of the body cavity, muscle, mesenteric fat, gall bladder, air bladder, kidney, liver, stomach, intestine, spleen, growths, and gonads. All observations were noted, and any abnormalities based on the pathology conditions outlined in the USGS guidelines (2002) were documented on the Specimen Data Form (Attachment C of the Fish/Decapod QAPP (Windward 2009)). The total number and percentage of specimens with one or more external or internal lesions (those not likely to have been caused by the fishing method) were calculated. Photographs of some of the pathology conditions observed are presented in Appendix D.

3 Fish Community Survey Results

A summary of all organisms collected during the late summer/early fall field effort is presented in Section 3.1. The fish community is best described by measurements calculated from the raw data collected in the field. The results of the survey are presented in Section 3.2 (community metrics) and Section 3.3 CPUE.

3.1 CATCH SUMMARY

All organisms collected during the late summer/early fall field effort for the fish community survey, for the gross internal and external pathology evaluation, and for possible tissue compositing and tissue chemical analysis[2] are listed in Appendix G. All

[2] Details on the fish/decapod sample analysis plan were first proposed by CPG in the memorandum, Proposed Sample Analysis Plan for Fish/Decapod Tissue for the Lower Passaic River Restoration Project, which was submitted to USEPA on November 6, 2009 (Windward 2009b). The fish/decapods sample analysis plan has since been revised and finalized in subsequent revised memoranda and discussions between CPG and EPA. All chain- of-custody forms for specimens submitted to the laboratory for possible tissue compositing and tissue chemical analysis are presented in Appendix H.

sampling locations where specimens were collected for tissue analysis, pathology evaluation, or the fish community survey are shown on Figure 2.

In general, the catch was dominated by blue crab and American eel throughout the LPRSA. In the estuarine zone (RM 0 to RM 10), the catch was dominated by blue crab, white perch, mud crab, Atlantic silverside, and grass shrimp. In the freshwater zone, the catch was dominated by American eel, blue crab, and common carp.

During the late summer/early fall 2009 fish community survey, sampling efforts appeared to be (according to field crew incidental observations) most successful in areas of aquatic vegetation and along shorelines with rocks, riprap, debris, or overhanging vegetation. These types of shorelines may offer greater habitat structure for refuge and foraging than do shorelines associated with bulkheads or open mudflats, which are devoid of aquatic vegetation.

3.2 RESULTS OF FISH COMMUNITY SURVEY METRICS

Assemblage data for the LPRSA will be used qualitatively to better understand the types of fish assemblages that may use the LPRSA. While receptors have already been chosen for the risk assessment based on existing information and the literature, the community survey will be used to further characterize the types of fish within the LPRSA. Inasmuch as several fish community surveys will be completed over several seasons (late summer/early fall, winter, late spring/early summer), the information will also be used qualitatively to characterize the changes that may occur from one season to another, as well as provide information about the overall health of LPRSA fish populations. This will be a qualitative assessment because there is not enough replication for a statistical quantitative comparison.

Species richness, dominant taxa, and Simpson's diversity index are shown by reach and for the entire LPRSA in Figure 3. Thirty-eight different species of fish were caught throughout the LPRSA. Among the different reaches of the LPRSA, species richness ranged from 9 to 20 species. The greatest diversity was in Reaches 5 and 8. The LPRSA Simpson's diversity index results generally tracked species richness, with the exception of Reach 8, indicating that rare species are not greatly influencing biodiversity. The lowest diversity was in Reach 3, as indicated by both species richness and Simpson's diversity index, where the catch was dominated by white perch, which accounted for 260 of the 334 total fish caught in this reach. Reach 8 had high species richness but a low Simpson's diversity index because several species were captured in low numbers. When calculated by zone, species richness and Simpson's diversity index values were higher for the estuarine zone (34 and 0.81, respectively) than the freshwater zone (23 and 0.72, respectively). Percent dominance calculated for the LPRSA as a whole (34%) was lower than that calculated for the estuarine zone (62%) and the freshwater zone (71%), whereas percent dominance among reaches ranged from 40 to 80%. The assemblage metrics indicate that there is high variability in the

number of fish caught in each reach: total catch in some reaches (Reaches 1, 2, 3, and 8) was relatively high but relatively low in other reaches (Reaches 4, 5, 6, and 7), and the catch in reaches within each zone appear to be dominated by similar species.

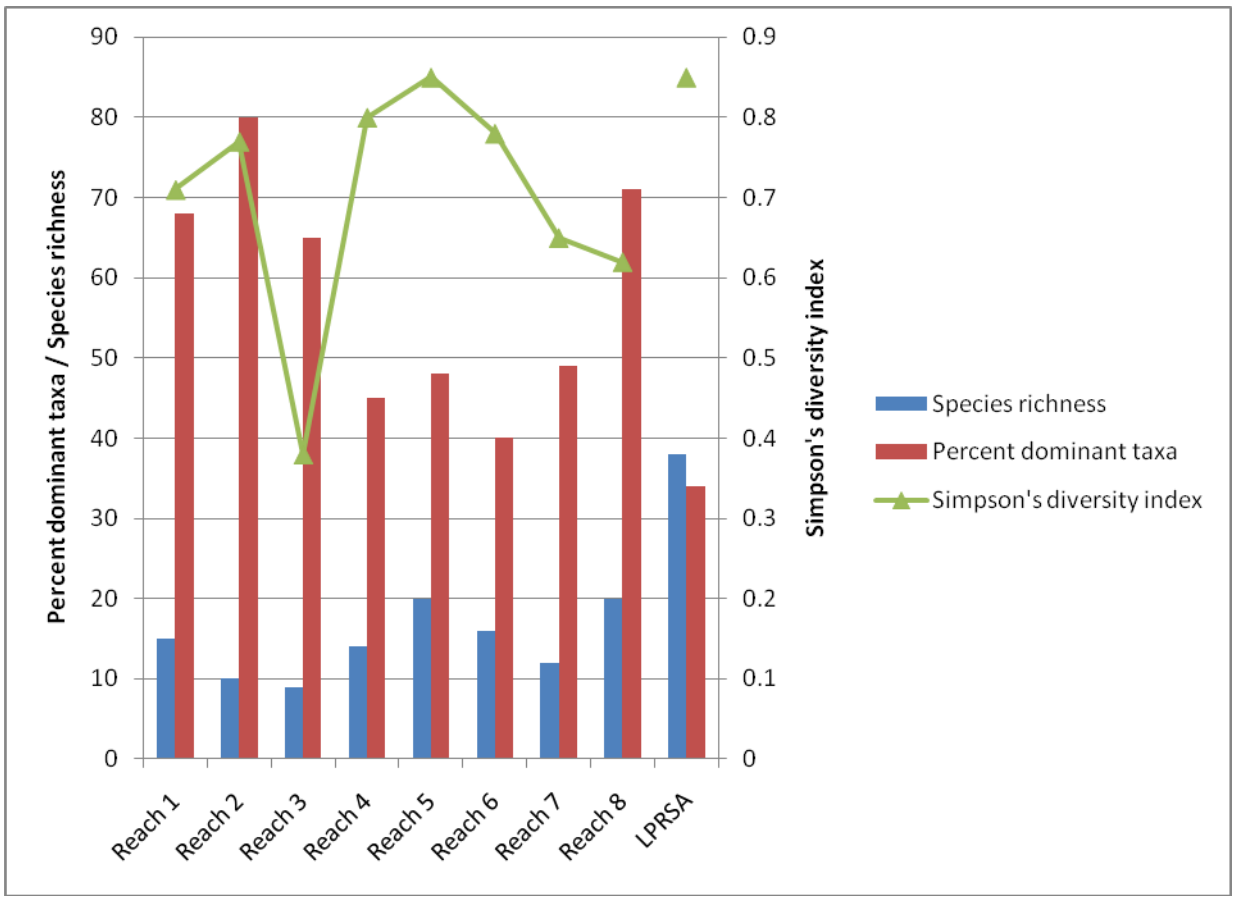


Figure 3. Percent dominant taxa, species richness, and Simpson's diversity index for each reach and for the LPRSA

All specimens collected were identified by feeding guild according to the definitions provided by USEPA (2008). Feeding guilds and preferences are presented in Table 5.

Table 5. Fish feeding guilds and preferences

Guild	Feeding Preference
Piscivores	other fish
Herbivores	plant material
Omnivores	anything available
Insectivores	insects
Filter feeders	zooplankton by straining water
Invertivores	insects, mollusks, crustaceans

A total community species survey list was prepared to identify species according to their feeding preferences (Table 6). Most of the fish species caught were invertivores or omnivores followed by piscivores. Benthic omnivore forage fishes (e.g., mummichog, darter, killifish) made up a small percentage of the total catch throughout the LPRSA. Blue crab was the dominant invertebrate, followed by grass shrimp and mud crab.

Table 6. Catch data by species and guild for all organisms collected

Common Name	Scientific Name	Habitat Preference	Reaches Where Collected	Count
Fish – Benthic Omnivore				
Atlantic silverside	*Menidia menidia*	estuary	1, 2	164
Banded killifish	*Fundulus diaphanus*	fresh water	5	40
Mummichog	*Fundulus heteroclitus*	estuary	1, 2, 5	56
Tessellated darter	*Etheostoma olmstedi*	fresh water	5, 6, 7, 8	16
Guild Total				276
Fish – Invertivore				
Winter flounder	*Pseudopleuronectes a.*	fresh water/estuary	1, 2	3
Weakfish	*Cynoscion regalis*	estuary	1, 3	4
Guild Total				7
Fish – Invertivore/Omnivore				
Goby (unspecified)	na	estuary	1, 2	12
Northern pipefish	*Syngnathus fuscus*	estuary	1	4
Mottled sculpin	*Cottus bairdii*	fresh water	8	3
Atlantic menhaden	*Brevoortia tyrannus*	estuary	1, 2, 3	54
Atlantic tomcod	*Microgadus tomcod*	migratory/estuary	3	1
Gizzard shad	*Dorosoma cepedianum*	fresh water	5, 8	5
Silver perch	*Bairdiella chrysoura*	fresh water/estuary	1	1

Table 6. Catch data by species and guild for all organisms collected

Common Name	Scientific Name	Habitat Preference	Reaches Where Collected	Count
Striped mullet	*Mugil cephalus*	migratory/fresh	5	1
White catfish	*Ameiurus catus*	fresh water/estuary	2, 3, 4, 5, 6, 7, 8	30
Catfish (unspecified)	na	fresh water/estuary	8	1
Channel catfish	*Ictalurus punctatus*	fresh water/estuary	5, 6, 7, 8	15
White perch	*Morone americana*	fresh water/estuary	1, 2, 3, 4, 5, 6, 7, 8	475
Brown bullhead	*Ameiurus nebulosus*	estuary	3, 4, 6, 7	7
Common carp	*Cyprinus carpio*	fresh water/estuary	3, 4, 5, 6, 7, 8	190
Hogchoker	*Trinectes maculatus*	fresh water	1	1
Satinfin shiner	*Notropis analostanus*	fresh water	8	3
Spottail shiner	*Notropis hudsonius*	fresh water	4, 5, 6, 8	20
White sucker	*Catastomus commersoni*	fresh water/estuary	4, 5, 6, 7, 8	40
Guild Total				863
Fish – Omnivore				
Bluegill	*Lepomis macrochirus*	fresh water	4, 5, 6, 7, 8	70
Pumpkinseed	*Lepomis gibbosus*	fresh water	4, 5, 6, 7, 8	118
Redbreast sunfish	*Lepomis auritus*	fresh water	4, 5, 7, 8	106
Guild Total				294
Fish – Piscivore				
Bluefish	*Pomatomus saltatrix*	estuary	1,2	36
Crevalle jack	*Caranx hippos*	estuary	1	1
Northern pike	*Esox lucius*	fresh water/estuary	5, 6	2
Northern searobin	*Prionotus carolinus*	migratory/estuary	1	1
Black crappie	*Pomoxis nigromaculatus*	fresh water	4, 6	3
Largemouth bass	*Micropterus salmoides*	fresh water/estuary	4, 5, 8	18
Rock bass	*Ambloplites rupestris*	fresh water/estuary	6, 8	9
Smallmouth bass	*Micropterus dolomieu*	fresh water/estuary	4, 5, 6, 8	21
Guild Total				91
Fish – Piscivore/invertivore				
American eel	*Anguilla rostrata*	fresh water/estuary	1, 2, 3, 4, 5, 6, 7, 8	667
Striped bass	*Morone saxatilis*	fresh water/estuary	1, 2, 3, 4, 5, 6, 7, 8	42
Guild Total				709
Fish Total				**2,240**

Table 6. Catch data by species and guild for all organisms collected

Common Name	Scientific Name	Habitat Preference	Reaches Where Collected	Count
Invertebrate – Epibenthic Omnivore				
Blue crab	*Callinectes sapidus*	fresh water/estuary	1, 2, 3, 4, 5, 6, 7, 8	932
Chinese mitten crab	*Eriocheir sinensis*	migratory/fresh water	8	2
Crayfish (unspecified)	na	fresh water/estuary	8	2
Grass shrimp	*Palaemonetes pugio*	fresh water/estuary	1, 2, 3, 4, 8	465
Mud crab (unspecified)	na	fresh water/estuary	1, 2, 3, 4, 5, 6, 7	276
Spineycheek crayfish	*Orconectes limosus*	estuary	7, 8	5
Guild Total				1,682
Invertebrate – Filter Feeder				
Blue mussel	*Mytilus edulis*	fresh water/estuary	1	1
Clam (unspecified)	na	fresh water/estuary	8	1
Guild Total				2
Invertebrate – Epibenthic Herbivore				
Snail (unspecified)	na	fresh water/estuary	1	139
Guild Total				139
Invertebrate Total				**1,823**
Reptile – Piscivore/Invertivore				
Soft-shell turtle	na	fresh water/estuary	7	1
Turtle (unspecified)	na	fresh water/estuary	5	1
Red-eared slider	*Trachemys scripta*	fresh water/estuary	5, 8	5
Guild Total				7
Reptile Total				**7**

na – not applicable

Blue crab and American eel were collected in the most abundance throughout the LPRSA during the late summer/early fall (Figure 4). Within the fish community, American eel and white perch were the two most abundant species. Total abundance of all organisms (including fish, shrimp, clams, mussels, crabs, snails, and turtles) in the LPRSA is presented in Figure 5; abundance of all organisms by reach is presented in Figures 6 through 13. In the estuarine zone (Reaches 1 through 5), a total of 2,696 organisms and 34 fish species were identified, with white perch and Atlantic

silverside being the most abundant (Figures 6 through 10). Within the freshwater zone (Reaches 6 through 8), a total of 1,374 organisms and 22 fish species were identified, with common carp and American eel (primarily small, juvenile eels) being the most abundant (Figures 11 through 13).

The species collected in both the estuarine and freshwater zones vary in their reported pollution tolerance. For example American eel, the most abundant fish species collected, are considered to be pollution-tolerant (Facey and Van Den Avyle 1987). Whereas white perch, the second most abundant fish species, is considered to have an intermediate level of pollution tolerance (USEPA 2008). Species considered to be intolerant of pollution, such as mottled sculpin (USEPA 2008), were also collected, albeit in low numbers.

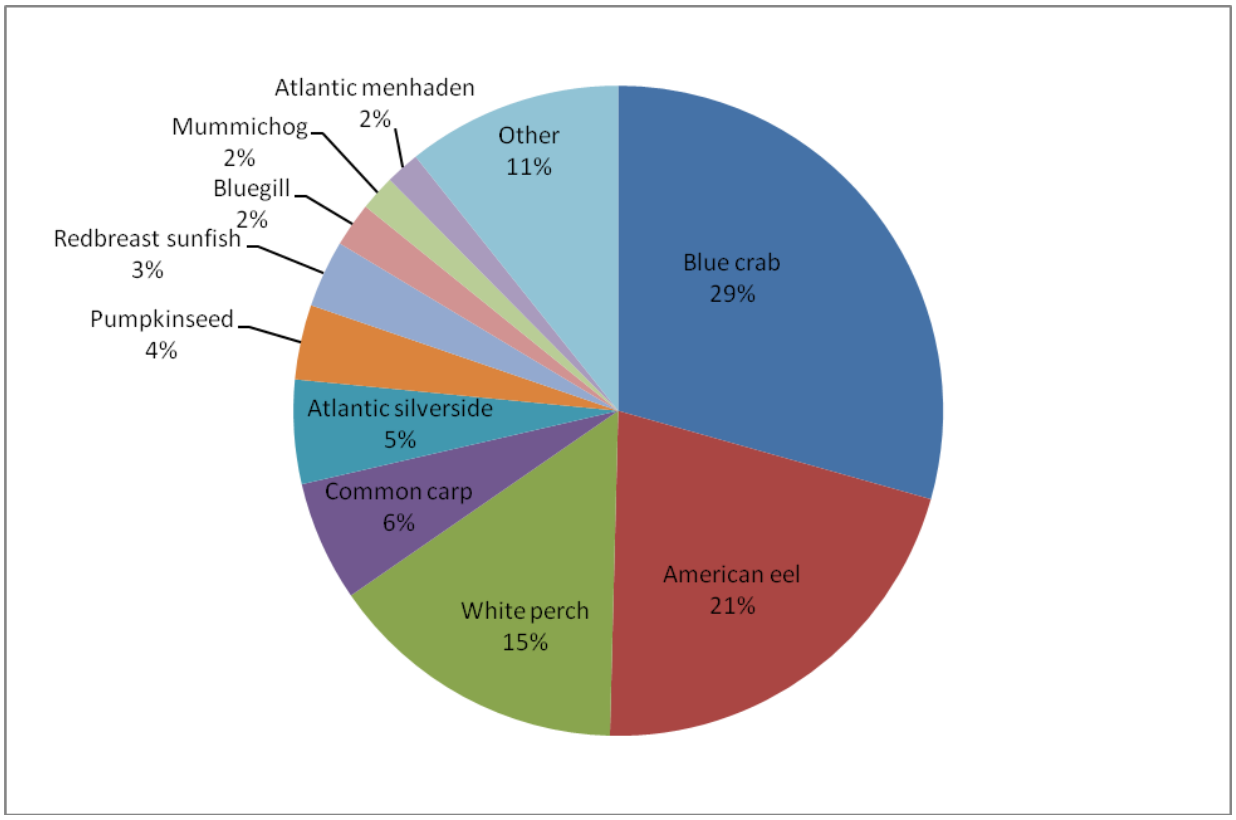


Figure 4. Relative abundance of blue crab and fish species collected in the LPRSA (percent of total number of individuals collected)

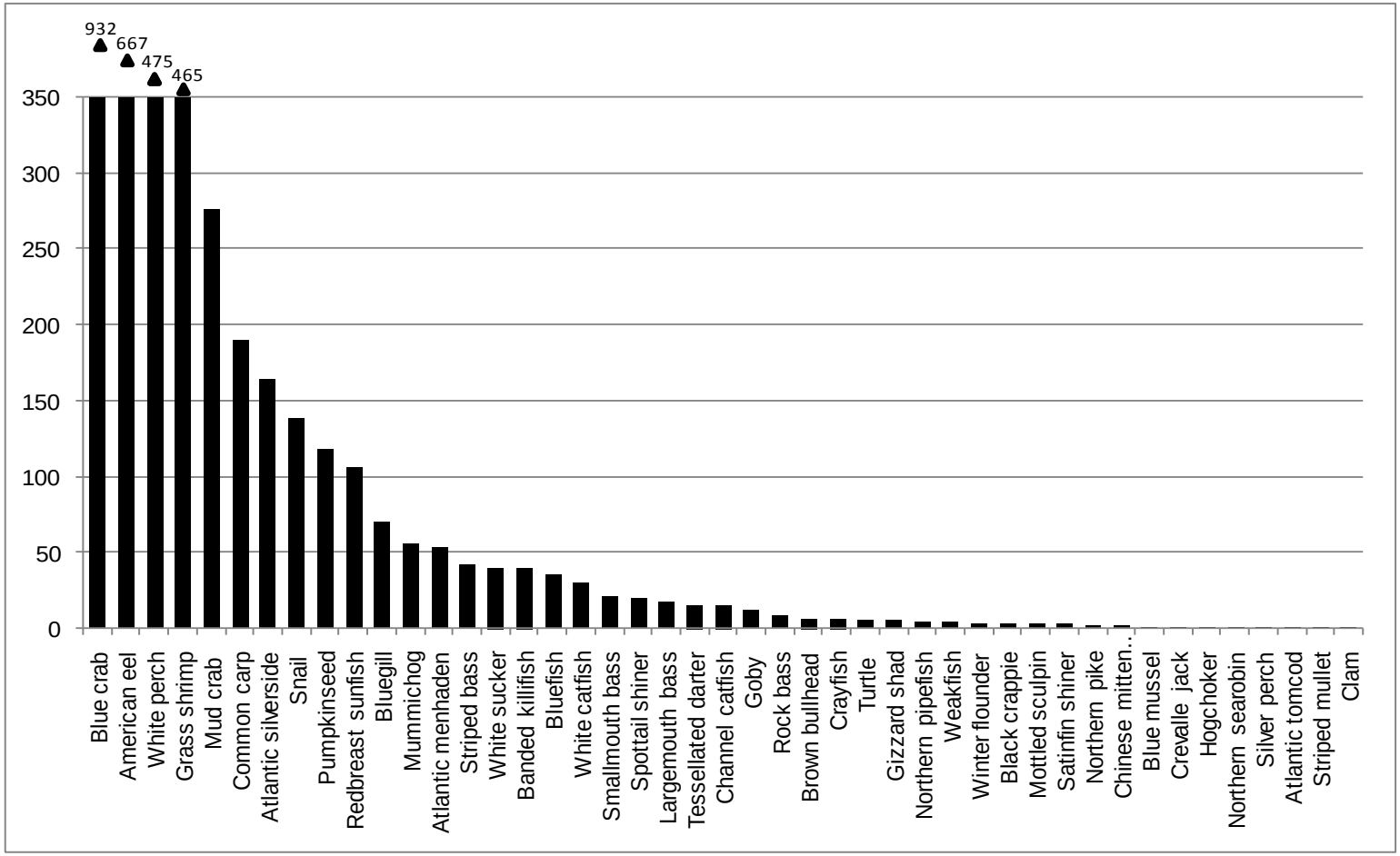


Figure 5. LPRSA species abundance (number of individuals)

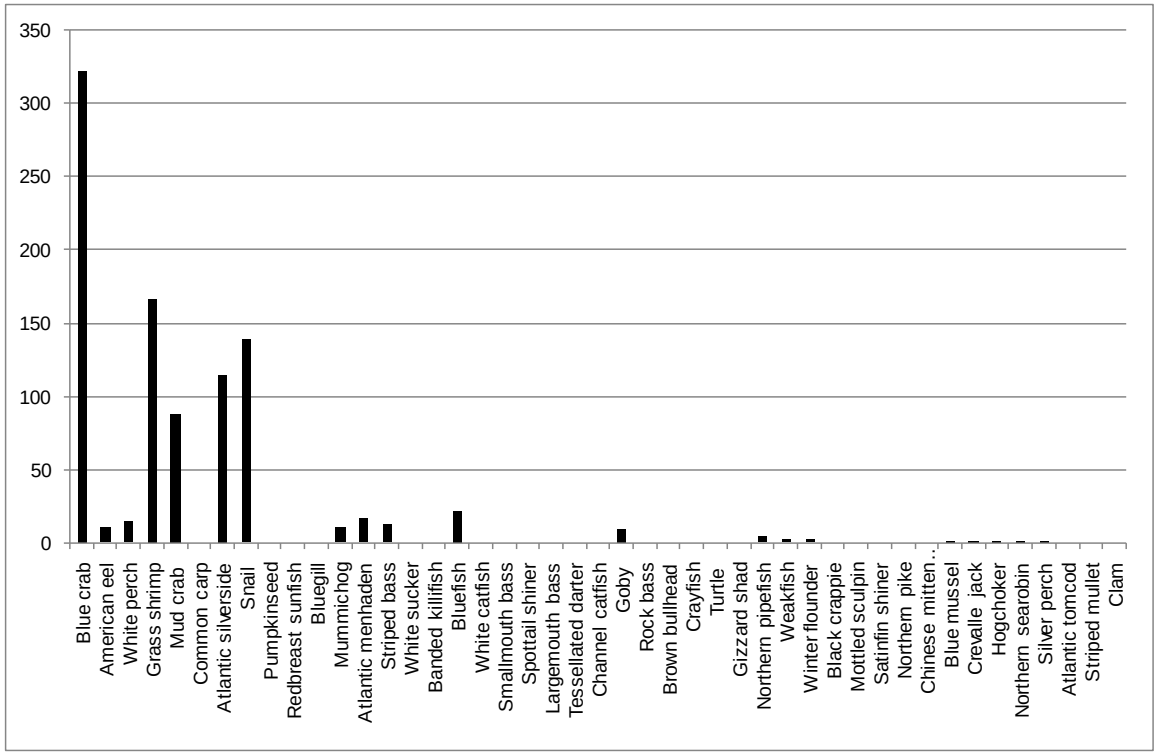


Figure 6. Reach 1 species abundance (number of individuals)

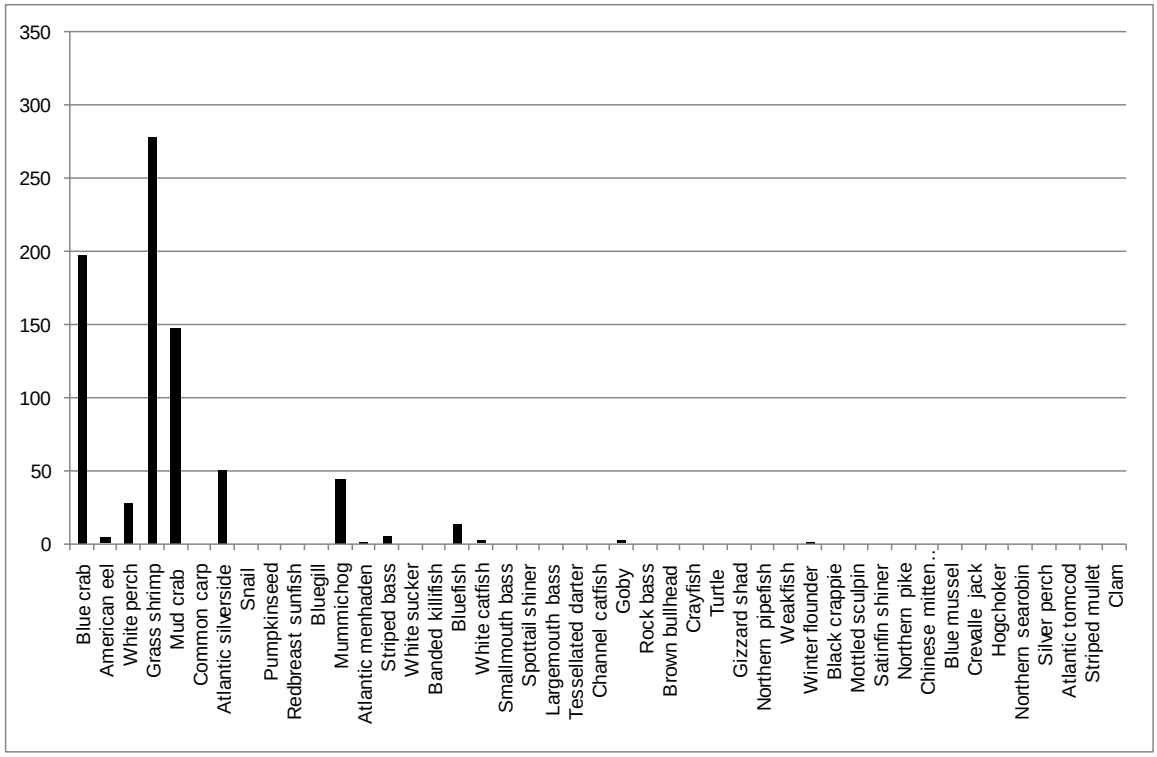


Figure 7. Reach 2 species abundance (number of individuals)

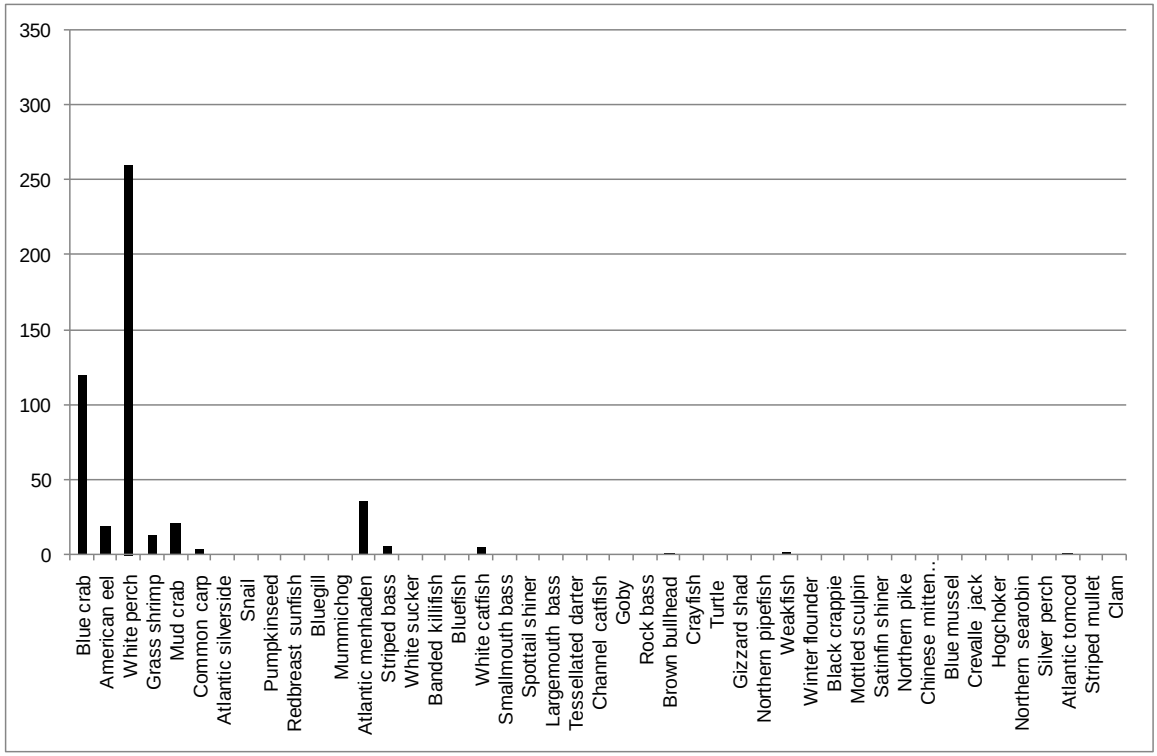


Figure 8. Reach 3 species abundance (number of individuals)

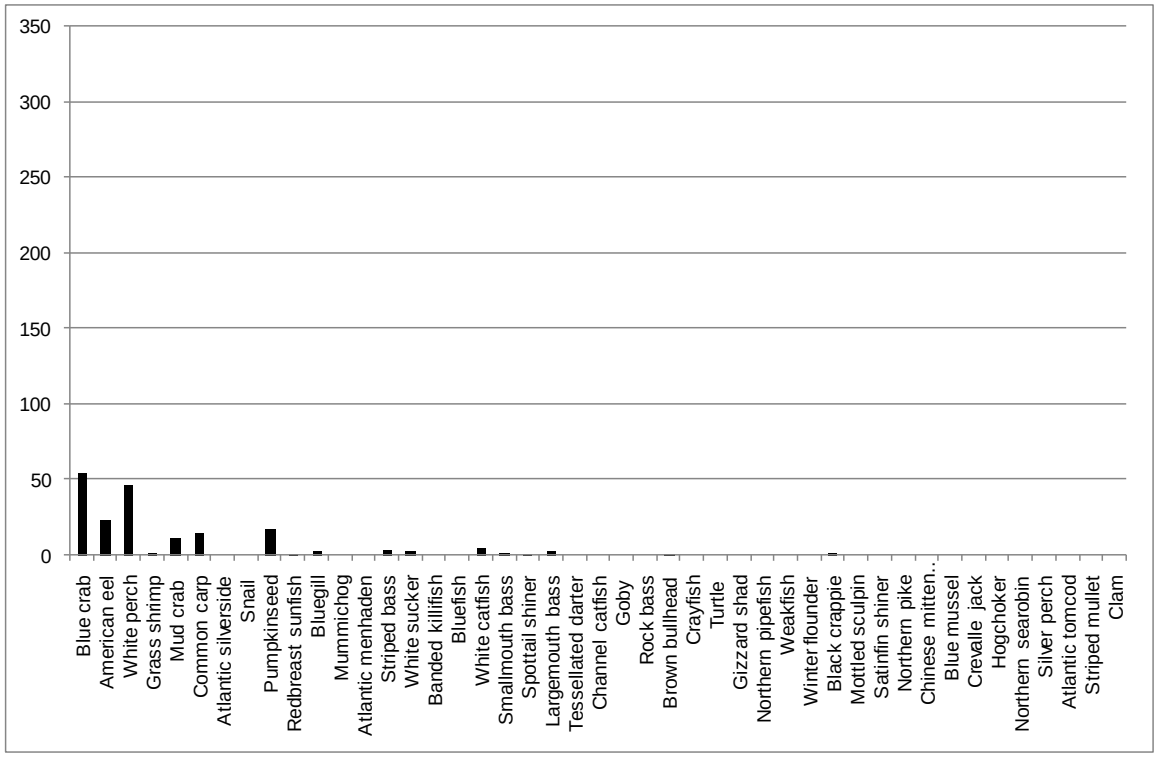


Figure 9. Reach 4 species abundance (number of individuals)

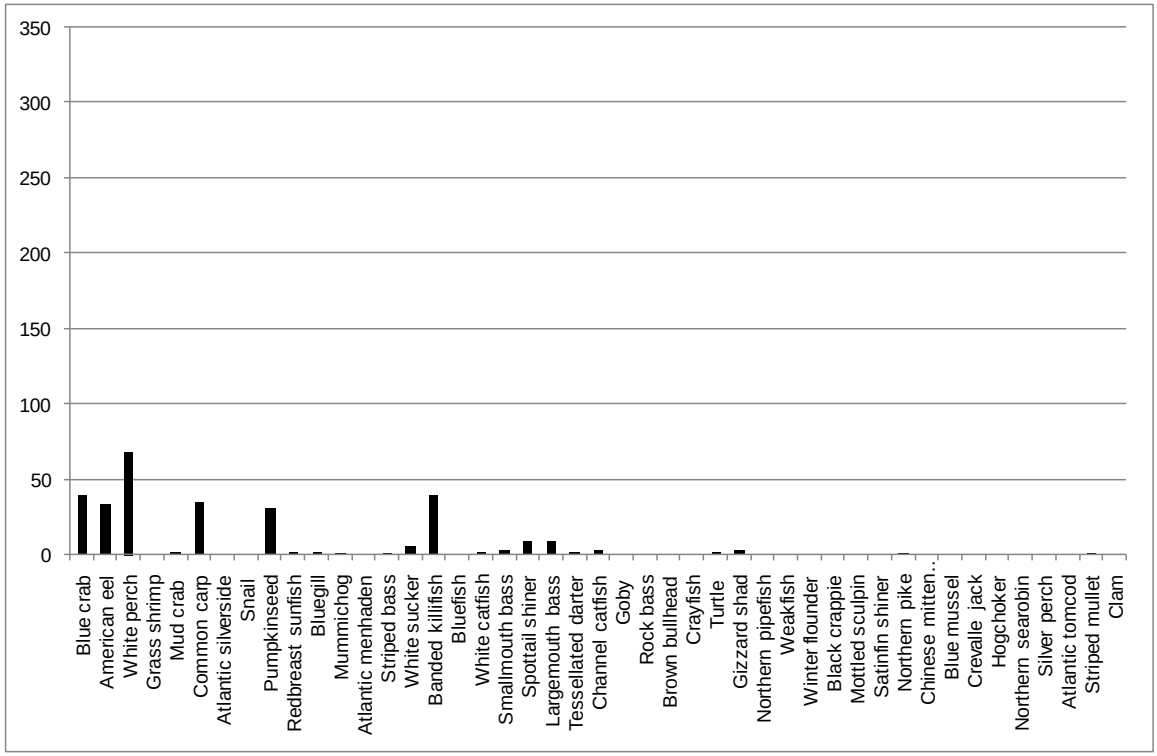


Figure 10. Reach 5 species abundance (number of individuals)

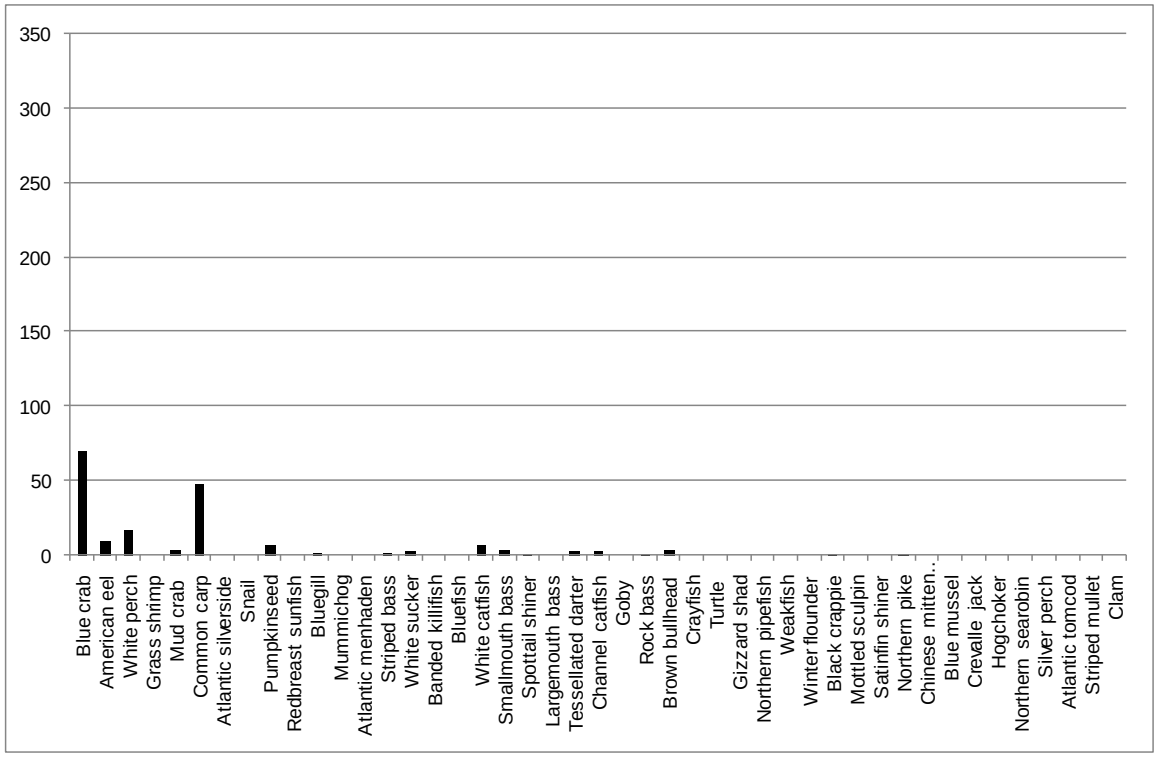


Figure 11. Reach 6 species abundance (number of individuals)

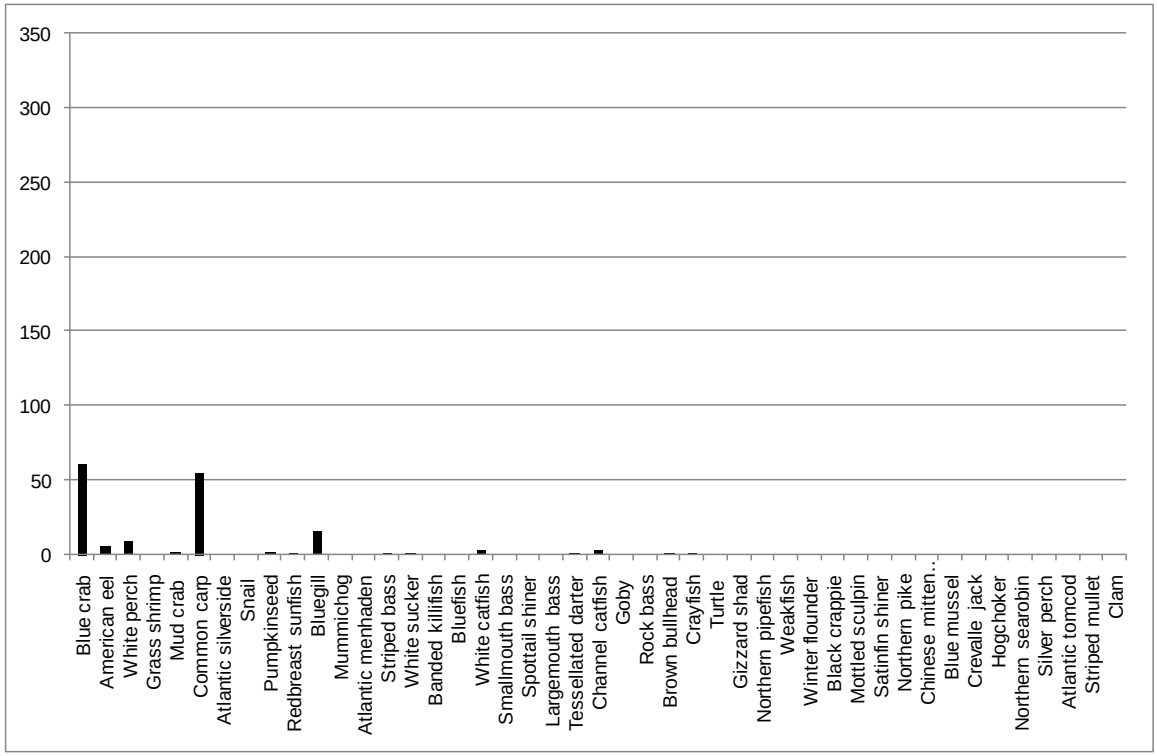


Figure 12. Reach 7 species abundance (number of individuals)

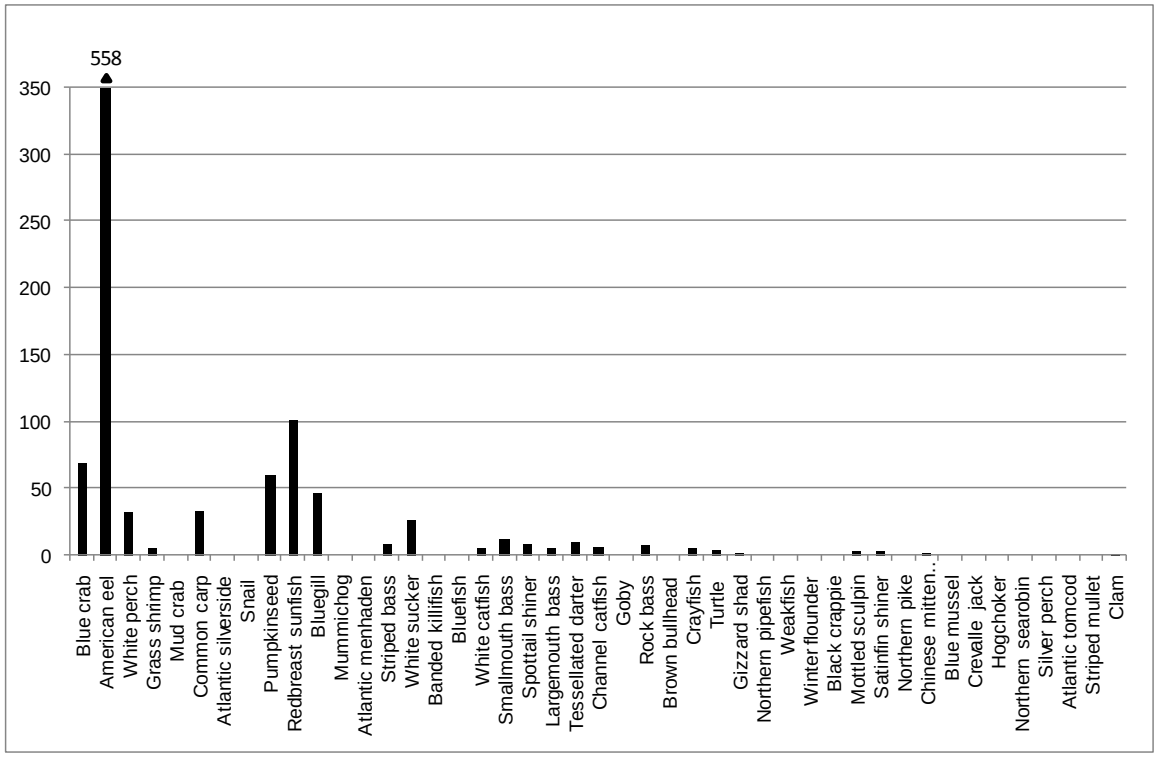
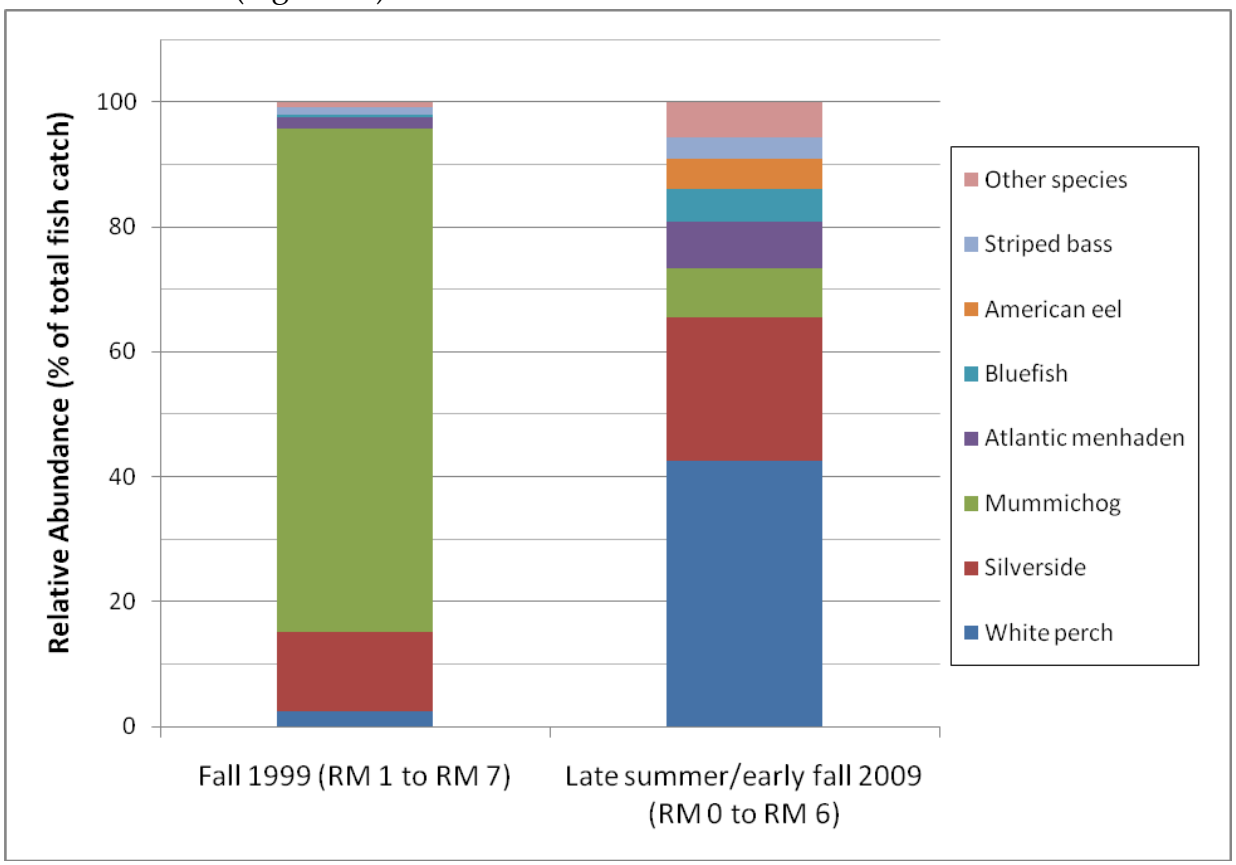


Figure 13. Reach 8 species abundance (number of individuals)

In fall 1999 and spring 2000, fish were collected from the lower portion of the LPRSA (RM 1 to RM 7) for a fish community survey (Tierra Solutions 2002b). The relative abundance of fish collected from RM 1 to RM 7 in fall 1999 was compared with the relative abundance of fish collected from RM 0 to RM 6 in the late summer/early fall 2009 field effort (Figure 14).



Note: Other species collected include fish that made up 2% or less of the total catch for the 2009 or 1999 sampling efforts. Fall 1999 data were reported by Tierra Solutions (2002b); the area of the Fall 1999 effort extended from RM 1 to RM 7 of the LPRSA (which corresponds to RM 0 to RM 6 of the 1999-2000 Passaic River Study Area). It was not possible to do a direct river mile range comparison between the two sampling events because data collected in 2009 were collected over 2-mile reach intervals (e.g., RM 0 to RM 2, RM 2 to RM 4, RM 4 to RM 6, RM 6 to RM 8).

Figure 14. Comparison of relative abundance of fish caught in the lower portion of the LPRSA in fall 1999 and late summer/early fall 2009

The most notable difference between the two surveys was that mummichog were caught in large numbers during the fall 1999 fish community survey between RM 1 and RM 7, whereas, in late summer/early fall 2009 between RM 0 to RM 6 they were much less abundant. Additionally, the relative abundance of white perch in 2009 was notably higher than in 1999. A similar number of species were caught in the two sampling events; a total of 19 fish species were collected in 2009 from RM 0 to RM 6, and 16 fish species were caught in 1999 from RM 1 to RM 7. Similar sampling methods were used during the two surveys; however, the 2009 sampling effort was conducted with additional sampling equipment that was not used in 1999 (e.g., trotlines, eel

traps). In addition to the fish data discussed above, numerous blue crab were also collected during both sampling events: 1,269 crab (25% of the total fish and blue crab catch) were collected in fall 1999, and 638 blue crab (47% of the total fish and blue crab catch) were collected in late summer/early fall 2009.

3.3 RESULTS OF CATCH-PER-UNIT EFFORT CALCULATIONS

The LPRSA-wide CPUE calculated by sampling method is presented in Table 7. Backpack electrofishing afforded the greatest number of organisms per attempt, followed by boat electrofishing and gillnets. The highest species diversity resulted from boat electrofishing and gillnets, followed by backpack electrofishing, crab traps, and minnow traps. These comparisons reflect sampling method bias. Each method selects for certain species, feeding times, habitats, sizes, bait preferences, duration of effort, and other factors. Gillnets and electrofishing methods are effective at collecting a high diversity and abundance of species; by contrast, trotlines and traps are more species-specific, effective at collecting a few species, though sometimes in lower abundances. In addition, time units vary widely among methods. For example, traps and gillnets were set overnight for similar amounts of time, whereas electrofishing was conducted over intervals of 15 to 30 minutes. The comparisons by sampling method are presented to indicate the relative efficiency of each method in the LPRSA.

Table 7. CPUE by sampling method for the LPRSA

Sampling Method	Sampling Method Unit	Reach	No. of Species	Attempts	Total No. of Organisms	CPUE
Boat electrofishing	30-minute swath[a]	4, 5, 6, 7, 8	20	41	401	9.8
Backpack electrofishing	15-minute swath[a]	8	16	10	525	53.0
Crab trap	trap attempt[b]	1, 2, 3, 4, 5, 6, 7, 8	17	431	397	0.9
Crayfish trap	trap attempt[b]	6, 7, 8	10	144	26	0.2
Eel trap	trap attempt[b]	1, 2, 3, 4, 5	13	209	215	1.0
Gillnet	net attempt[c]	1, 2, 3, 4, 5, 6, 7, 8	21	127	923	7.3
Minnow trap	trap attempt[b]	1, 2, 3, 4, 5, 6, 7, 8	16	417	298	0.7
Trotline	line attempt[c]	1, 2, 3, 4, 5, 6, 7, 8	13	417	150	0.4
Dip net	net attempt[d]	1, 2	2	3	5	1.7

[a] Boat electrofishing was tallied by "30-minute swaths," and backpack electrofishing was tallied by "15-minute swaths" where a given area was fished. The areal extent of each swath varied according to bank slope and river substrate conditions.

[b] All traps were deployed at one location overnight and retrieved the following morning.

[c] Gillnets and trotlines were deployed at one location overnight and retrieved the following morning.

[d] Dip nets were used only in three locations for approximately 5 to 10 minutes per attempt.

CPUE – catch-per-unit effort

LPRSA – Lower Passaic River Study Area

In an attempt to increase the likelihood of retaining captured mummichog, the soak period was changed on September 2, 2009 from overnight to an approximate 2-to-3-hour soak period (see Section 2.3.1). However, changing to a shorter soak time did not result in a higher catch yield of mummichog (i.e., no mummichog were collected with the reduced soak time) and the soak time was changed back to overnight after September 2, 2009.

The mean CPUE by sampling method is presented for each reach in Table 8. Certain gear types were not used in all reaches; for example, backpack electrofishing was attempted only in Reach 8. The number of individuals per species collected using each sampling method is presented in Figures 15 through 22. The greatest diversity of species was collected using boat electrofishing and gillnet methods (Table 7; Figures 15 and 21, respectively). The more species-specific methods, such as trotlines and traps, resulted in lower diversity catches. Dip nets were used in limited locations in just a few attempts; only two species were collected using this method (Atlantic silverside and blue crab).

The two most dominant species in the LPRSA, American eel and blue crab, were caught using a variety of methods. American eel were caught most efficiently using electrofishing methods (Figures 15 and 16). Blue crabs were caught most efficiently using gillnets (Figure 21) followed by crab traps (Figure 17). White perch were collected at similar rates using most methods but most efficiently using boat electrofishing. Common carp were collected using two methods: gillnets and boat electrofishing. Finally, Atlantic silversides were caught using eel and minnow traps and dip nets.

Table 8. CPUE by sampling method for each reach of the LPRSA

Sampling Method	Reach	Attempts	Total No. of Organisms	CPUE
Boat electrofishing	4	6	54	9.0
	5	8	138	17.3
	6	3	1	0.3
	7	4	3	0.8
	8	20	205	10.3
Backpack electrofishing	8	10	525	52.5
Crab trap	1	38	67	1.8
	2	45	55	1.2

Table 8. CPUE by sampling method for each reach of the LPRSA

Sampling Method	Reach	Attempts	Total No. of Organisms	CPUE
	3	45	38	0.8
	4	73	35	0.5
	5	72	36	0.5
	6	70	69	1.0
	7	45	52	1.2
	8	54	34	0.6
Crayfish trap	6	45	8	0.2
	7	45	11	0.2
	8	54	7	0.1
Eel trap	1	41	102	2.5
	2	45	77	1.7
	3	43	28	0.7
	4	40	5	0.1
	5	40	3	0.1
Minnow trap	1	48	92	1.9
	2	44	134	3.0
	3	45	21	0.5
	4	43	6	0.1
	5	43	15	0.3
	6	75	6	0.1
	7	75	15	0.2
	8	45	9	0.2
Gillnet	1	15	272	18.1
	2	15	171	11.4
	3	15	196	13.1
	4	30	47	1.6
	5	20	39	2.0
	6	15	72	4.8
	7	10	63	6.3
	8	7	63	9.0

Table 8. CPUE by sampling method for each reach of the LPRSA

Sampling Method	Reach	Attempts	Total No. of Organisms	CPUE
Trotline	1	67	21	0.3
	2	42	9	0.2
	3	38	21	0.6
	4	42	22	0.5
	5	45	27	0.6
	6	75	31	0.4
	7	60	13	0.2
	8	48	6	0.1
Dip net	1	2	1	0.5
	2	1	4	4.0

CPUE – catch-per-unit effort
LPRSA – Lower Passaic River Study Area

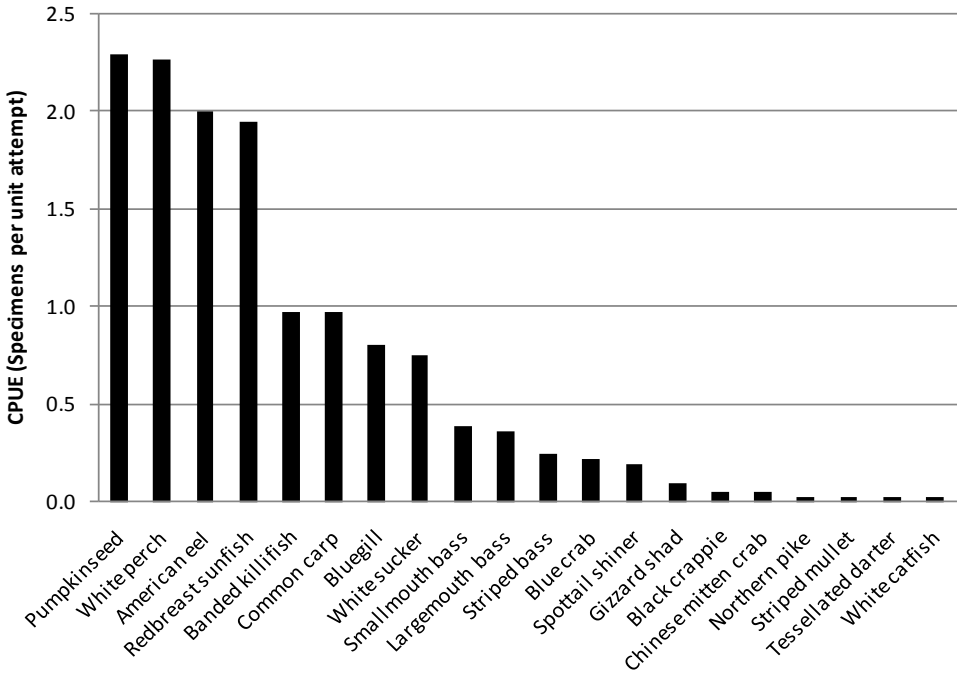


Figure 15. CPUE for organisms collected by boat electrofishing in the freshwater reaches of the LPRSA

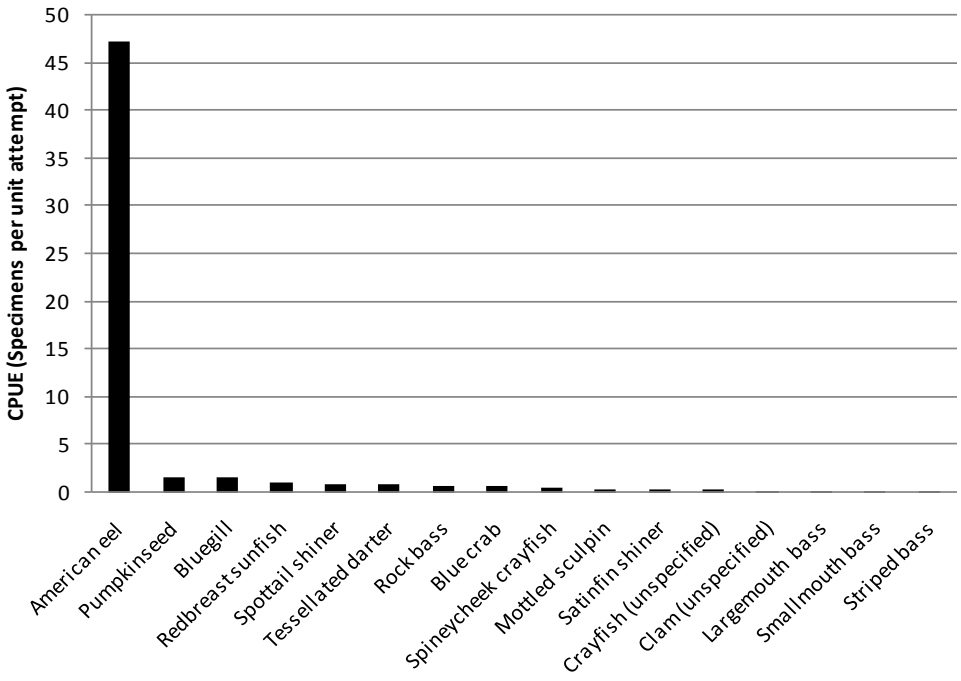


Figure 16. CPUE for organisms collected by backpack electrofishing in the freshwater reaches of the LPRSA

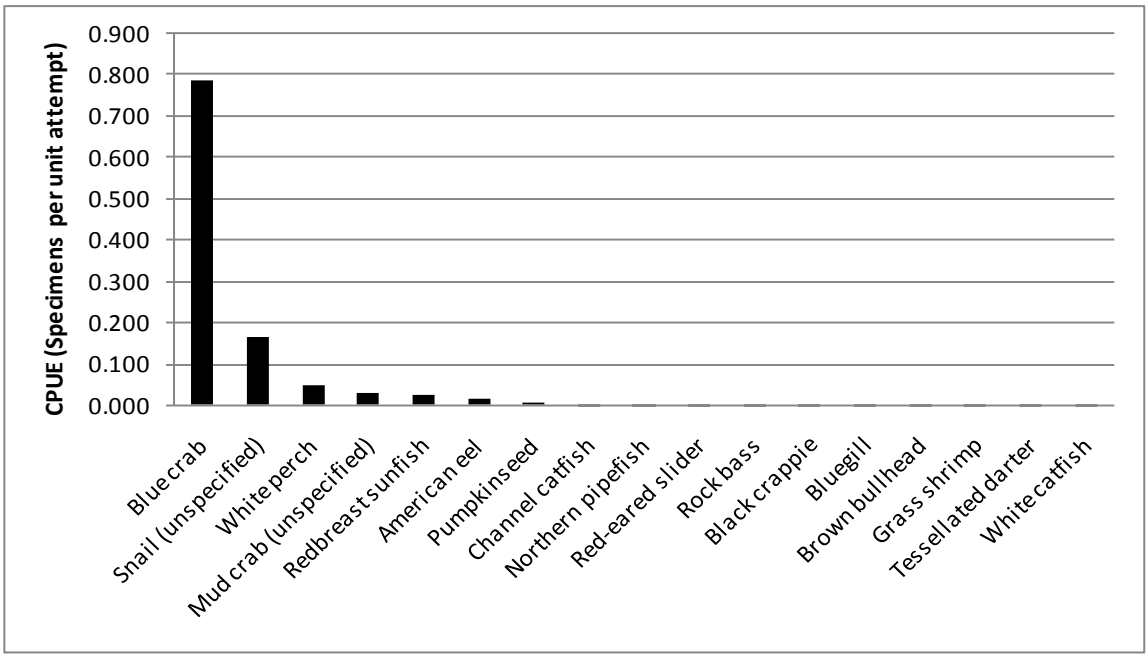


Figure 17. CPUE for organisms collected by crab trap in the LPRSA

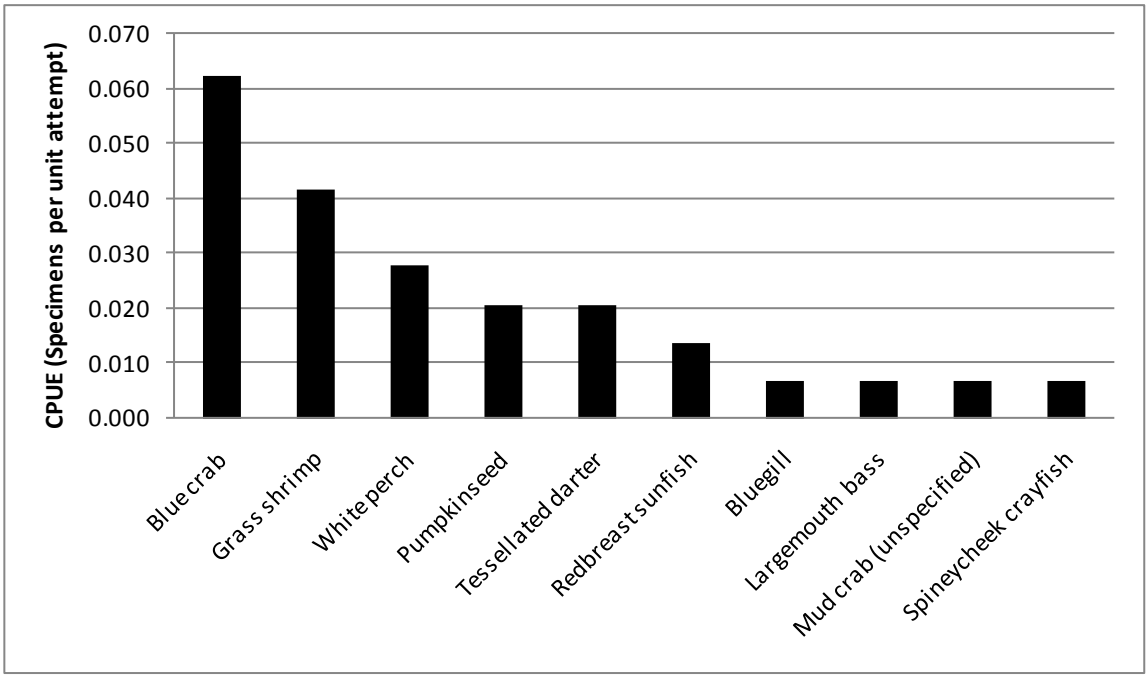


Figure 18. CPUE for organisms collected by crayfish trap in the LPRSA

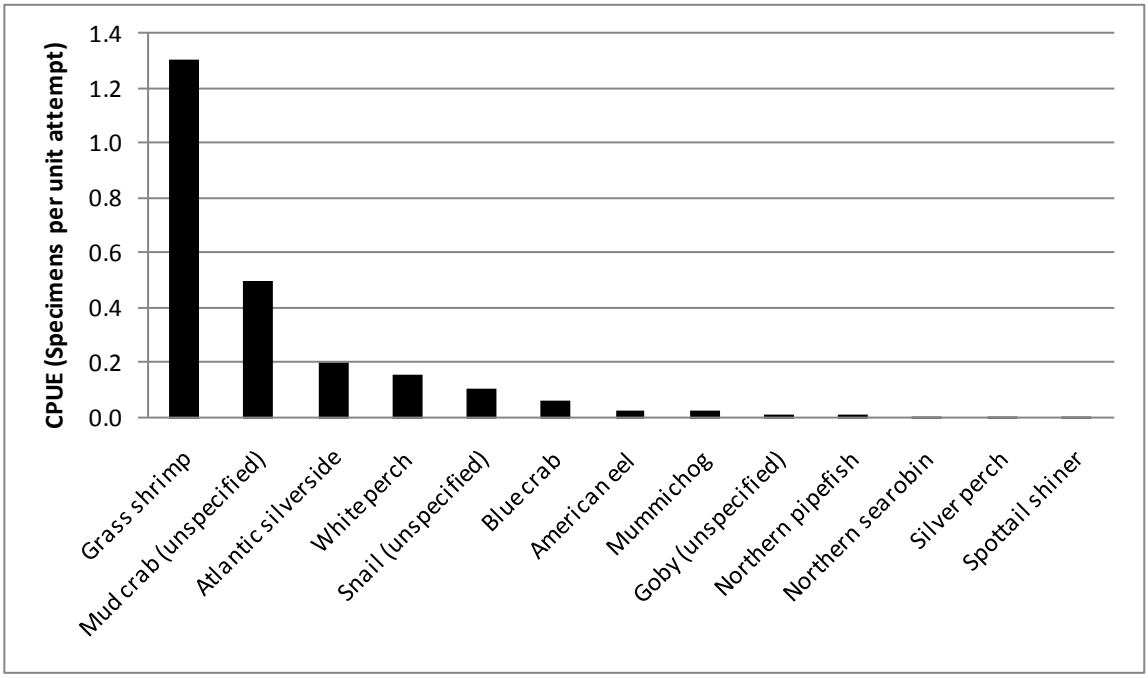


Figure 19. CPUE for organisms collected by eel trap in the LPRSA

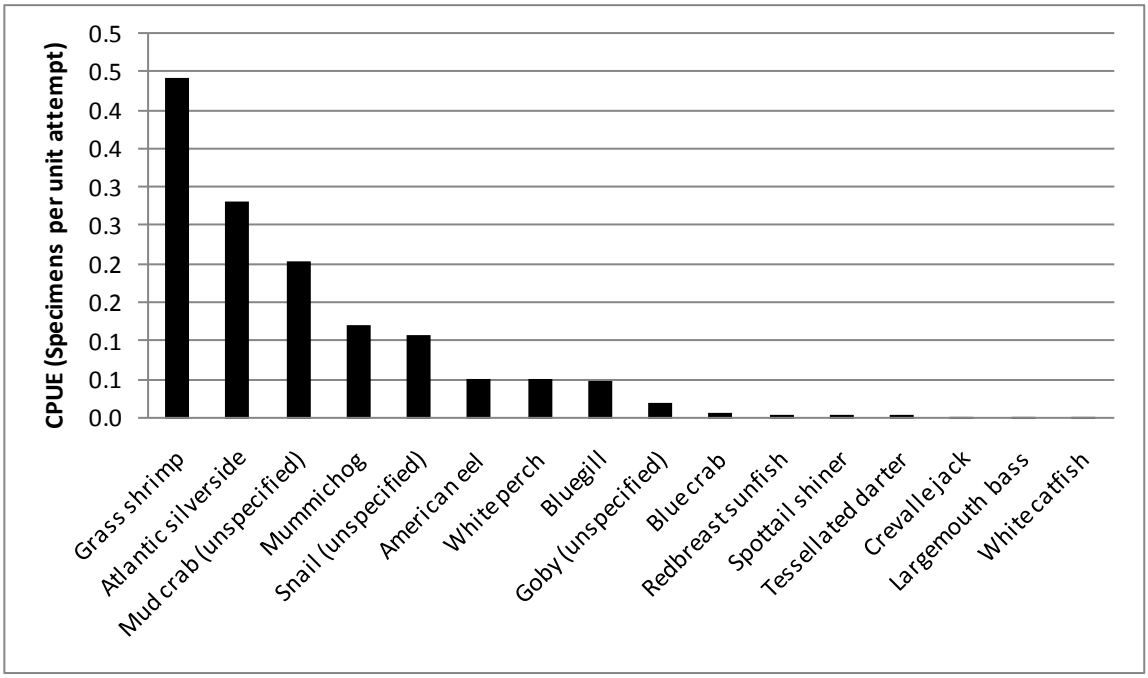


Figure 20. CPUE for organisms collected by minnow trap in the LPRSA

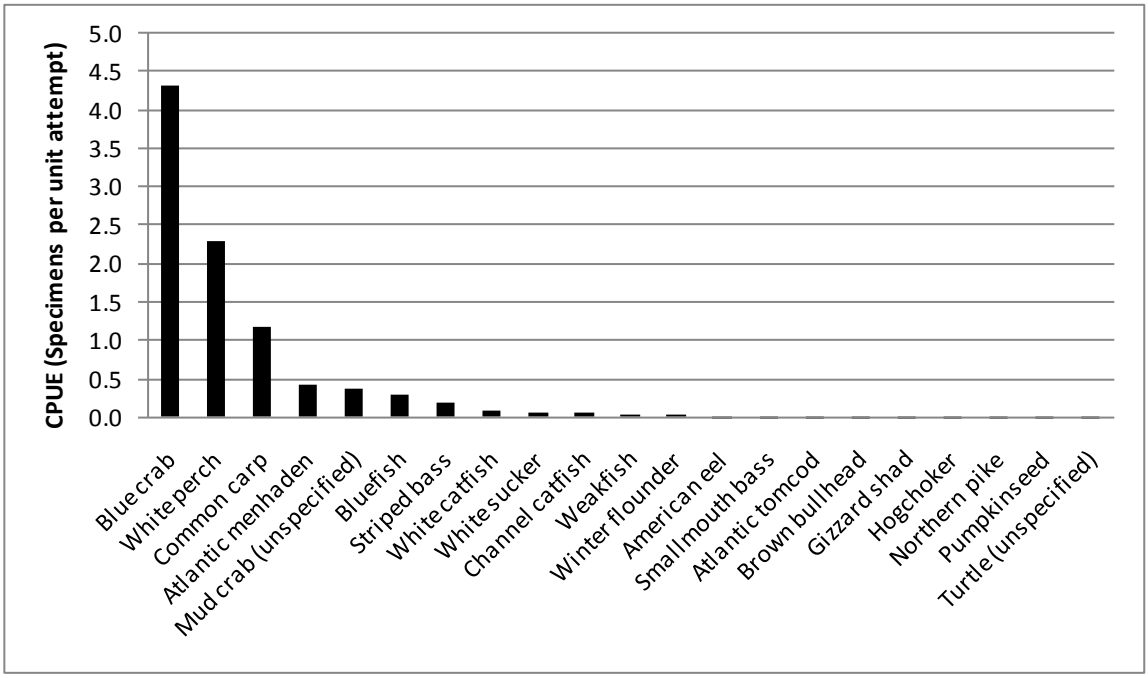


Figure 21. CPUE for organisms collected by gillnet in the LPRSA

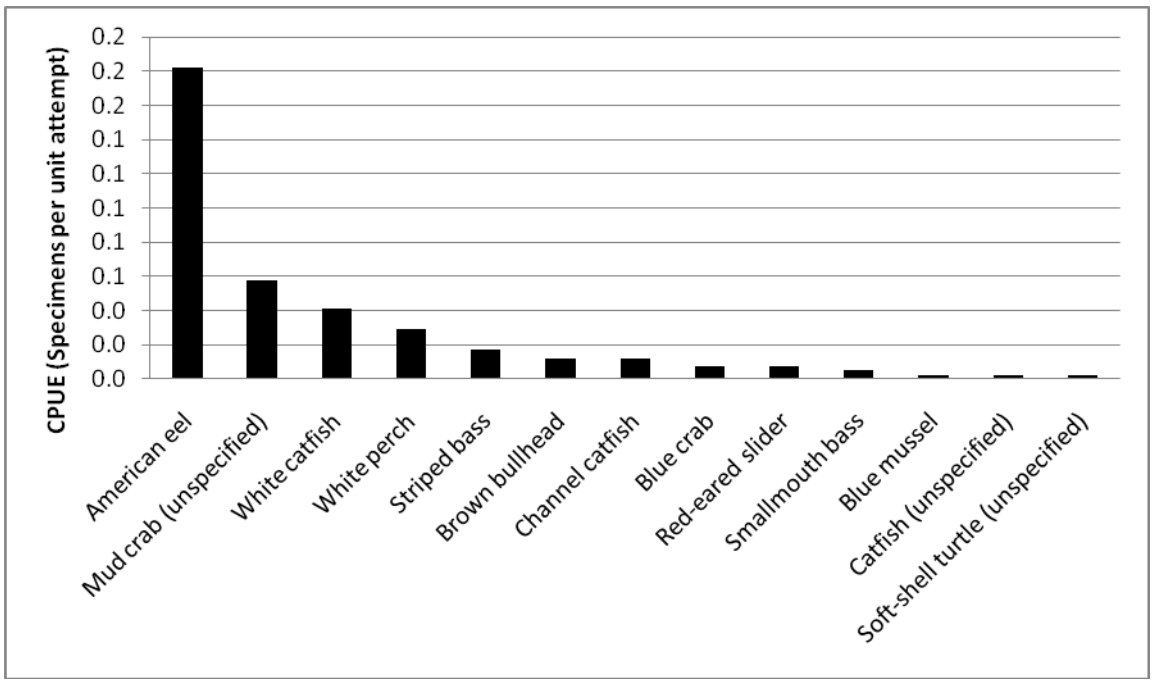


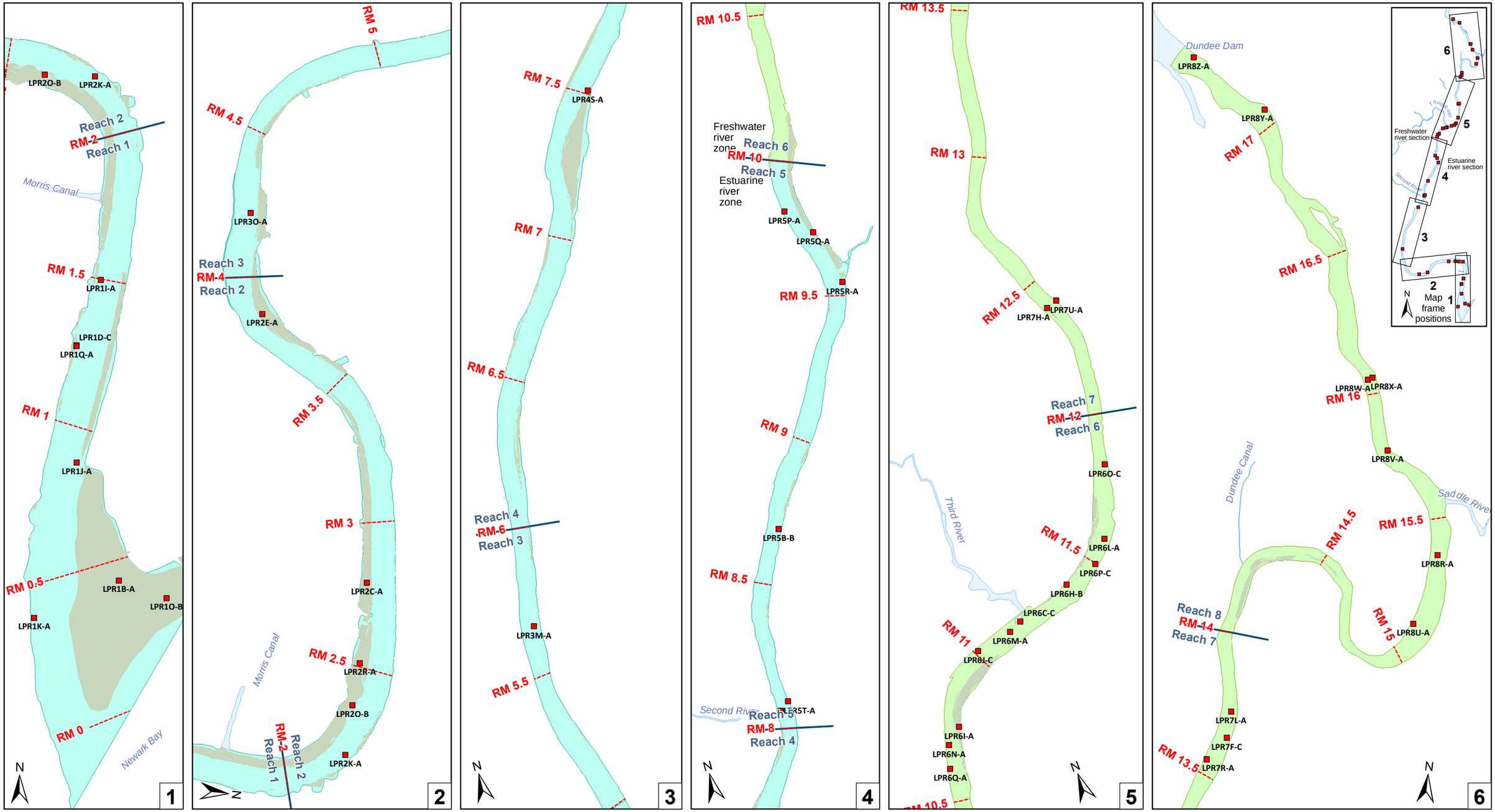
Figure 22. CPUE for organisms collected by trotline in the LPRSA

4 Fish Gross External and Internal Pathology Evaluation

Internal and external abnormalities are absent or occur at very low rates naturally but can occur at higher rates at more urban sites potentially due to physiological stress as a result of environmental degradation, chemical pollutants, overcrowding, improper diet, excessive siltation, increased nutrients and organic matter, or other perturbations (Schmitt and Dethloff 2000). An analysis of fish abnormalities can be used as one line of evidence in a weight-of-evidence analysis to determine adverse effects of stressors on riverine resources (Blazer et al. 2002). Evaluating the prevalence of fish with external lesions has been used in a number of large-scale monitoring studies as presented by USEPA's Environmental Monitoring and Assessment Program (USEPA REMAP 1990) and NOAA's National Status and Trends Program (NOAA 2009). These and other studies have generally indicated a higher prevalence of external lesions in fish from urban sites as compared with less urban areas. The prevalence of internal and external abnormalities will be used within the context of the ERA to ascertain if these abnormalities are related to chemical or other stressors within the LPRSA and to provide qualitative information about the overall health of LPRSA fish populations.

The sampling locations where specimens were collected for the pathology evaluation are presented on Figure 23. Eighty-three fish underwent the pathology evaluation. Of that number, 33 fish (40%) across all species were found to have one or more external and/or internal abnormality, with some fish having more than one type of

abnormality and some fish having both external and internal abnormalities (i.e., 29 external abnormalities and 27 internal abnormalities were identified in 33 fish). The number of fish that had at least one external abnormality was equal to the number of fish that had at least one internal abnormality: 20 of 83 (24%). Injuries likely to have been caused by the fishing method or handling were not included in the abnormality counts. However, the assessment procedure is subjective, and decisions about discoloration, organ normality, and damage resulting from the fishing method are based on best professional judgment. Totals and percentages of abnormality are presented by type in Table 9 and by reach in Table 10.



0 0.5 1 Kilometers

0 0.25 0.5 Miles

- Pathology specimen
- River mile
- Sampling reach boundary
- Mudflat

LPRSA
- Estuarine river section
- Freshwater river section
- Upper Passaic River or tributary

Mudflats and gravel flats are areas where the river bottom slope is less than or equal to 6° and the depth is >-4.5 feet NGVD29 (i.e.>-2 feet MLLW). Flats along the navigation channel were determined based on the 2004 bathymetry data from Rogers Surveying (for USACE). The Kearney Point mudflat is outside the survey area and was estimated from NOAA bathymetry.

Figure 23. Fish and decapod sampling locations where specimens were collected for pathology evaluation during the late summer/early fall 2009 field effort

Created by CEH 1/5/10, map 4014; W:\Projects\06-58-01 Passaic RI\Data\GIS\Analysis_and_Maps\Fish2009

Table 9. Pathology evaluation totals and percentages by abnormality type

Location of Abnormality	No. of Fish with Abnormality[a]	Percentage of Fish with Abnormality[b]
External		
Anus	8	9.6
Gills	6	7.2
Urogenital opening	6	7.2
Body surface	3	3.6
Eyes	2	2.4
Isthmus	2	2.4
Lips – jaws	1	1.2
Barbels	1	1.2
Body form	0	0
Snout	0	0
Opercle	0	0
Bronchial cavity	0	0
Pseudobranch	0	0
Total	**29**[a]	**35**
Internal		
Intestine	8	9.6
Liver	4	4.8
Stomach	4	4.8
Body cavity	3	3.6
Gall bladder	2	2.4
Gas bladder	2	2.4
Spleen	2	2.4
Muscle	1	1.2
Kidney	1	1.2
Mesenteric fat	0	0
Pyloric caeca	0	0
Total	**27**[a]	**33**

[a] The counts in this column reflect the number of fish observed with each type of abnormality. Because some fish had multiple types of internal or external abnormalities, the total counts of internal or external abnormalities in this table do not equal the totals presented in Table 10.

[b] Percentage was calculated as the number of fish that were determined to have a particular type of abnormality divided by the total number of fish evaluated (i.e., 83).

Table 10. Summary of pathology evaluation results by reach

Reach	No. of Fish Evaluated	External Abnormalities		Internal Abnormalities	
		No. of Fish with Abnormalities	Percentage of Fish with at Least One Abnormality	No. of Fish with Abnormalities	Percentage of Fish with at Least One Abnormality
1	12	1	8	1	8
2	11	0	0	0	0
3	8	5	63	4	50
4	2	0	0	1	50
5	9	1	11	4	44
6	13	4	31	6	46
7	6	0	0	1	17
8	22	9	41	3	14
Total	**83**	**20**[a]	**24**	**20**[a]	**24**

[a] While 20 fish had at least one internal abnormality and 20 had at least one external abnormality, the total number of fish with one or more internal and/or external abnormality is 33 because some fish had both internal and external abnormalities.

In fall 1999 and spring 2000, fish were collected from the lower portion of the LPRSA (RM 1 to RM 7) for a fish community survey, and gross external and internal pathology evaluations were performed on a subset of the fish collected (Ludwig and Iannuzzi 2005) using guidelines developed by the US Fish and Wildlife Service (Hunn 1988). Similar guidelines by USGS (USGS 2002) were used for the late summer/early fall 2009 sampling effort. Data from the 1999-2000 pathology analysis of 58 fish (representing 12 fish species) (Ludwig and Iannuzzi 2005; Tierra Solutions 2002a) were compared to the pathology data from fish collected during the late summer/early fall 2009 field effort. For several types of abnormalities, including abnormalities of the isthmus, lips and jaws, gall bladder, spleen, muscle, and kidney, low or no incidences were observed in both the 1999-2000 and late summer/early fall 2009 pathology evaluations. Similar incidences between the two field efforts were reported for abnormalities associated with the gills, body surface, body form, intestine, liver, and body cavity.

A summary of internal and external abnormalities for all species included in the pathology evaluation is presented in Table 11. The greatest number of external abnormalities was observed in white sucker specimens followed by striped bass and common carp (although seven common carp specimens were included in the evaluation, which is at least two more than for any other species). The greatest number of internal abnormalities was observed in American eel, striped bass, and smallmouth bass. Similar percentages of fish with internal and external abnormalities were observed in the estuarine and freshwater zones. The percentage of fish with internal

abnormalities was 21% in the estuarine zone and 24% in the freshwater zone. The percentage of fish with external abnormalities was 24% in the estuarine zone and 27% in the freshwater zone.

Fish stomach content samples were not collected because of the lack of sufficient specimens for the analysis (further described in Section 2.3.3). Although stomach contents were not submitted to an outside laboratory for taxonomy, stomach content examinations were conducted during fish health assessments, when possible. Of the eighty-three fish that underwent the pathology evaluation, 31% of the fish stomachs (n = 26) were observed to be empty, 55% (n = 26) were observed to have food (unidentified contents), and 4% (n = 3) contained fluid or mucus only. Stomach observations were not made for 10% of the fish (n = 8) that underwent the pathology evaluation.

Table 11. Summary of internal and external abnormalities by species

Species	n	Reach	No. of Fish with External Abnormalities by Location									No. of Fish with External Abnormality	No. of Fish with Internal Abnormalities by Location										No. of Fish with Internal Abnormality
			Body Surface	Eyes	Gills	Isthmus	Lips and Jaws	Anus	Barbels	Urogenital Opening	Total		Body Cavity	Gall Bladder	Gas Bladder	Intestine	Liver	Muscle	Spleen	Stomach	Kidney	Total	
Hogchoker	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern searobin	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver perch	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weakfish	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
Atlantic silverside	5	1, 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluefish	5	1, 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winter flounder	3	1, 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby (unspecified)	5	1, 2	0	0	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0
Atlantic menhaden	5	1, 3	1	0	1	0	0	0	0	0	2	2	1	0	0	0	0	1	0	0	1	3	2
White perch	1	3	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0
Striped bass	5	3, 6	0	0	4	1	1	0	0	0	6	4	0	0	0	4	1	0	1	0	0	6	4
Black crappie	3	4, 6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	2
Gizzard shad	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Striped mullet	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spottail shiner	5	5, 6, 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 11. Summary of internal and external abnormalities by species

Species	n	Reach	No. of Fish with External Abnormalities by Location									No. of Fish with External Abnormality	No. of Fish with Internal Abnormalities by Location										No. of Fish with Internal Abnormality
			Body Surface	Eyes	Gills	Isthmus	Lips and Jaws	Anus	Barbels	Urogenital Opening	Total		Body Cavity	Gall Bladder	Gas Bladder	Intestine	Liver	Muscle	Spleen	Stomach	Kidney	Total	
Common carp	7[a]	5, 6, 7, 8	0	1	0	0	0	1	1	1	4	3	0	0	0	0	1	0	0	0	0	1	1
American eel	5	5, 8	0	0	0	0	0	1	0	0	1	1	1	1	2	2	0	0	0	3	0	9	5
Pumpkinseed	5	6, 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
White sucker	5	6, 7, 8	0	0	0	0	0	4	0	4	8	4	1	0	0	0	0	0	0	0	0	1	1
Smallmouth bass	5	6, 8	1	0	1	0	0	0	0	0	2	2	0	0	0	1	1	0	1	0	0	3	3
Redbreast sunfish	5	7, 8	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1
Bluegill	5	7, 8	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Satinfin shiner	3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**83**	**all**	**3**	**2**	**6**	**2**	**1**	**8**	**1**	**6**	**29**	**20**	**3**	**2**	**2**	**8**	**4**	**1**	**2**	**4**	**1**	**27**	**20**

[a] Two additional common carp specimens were included (for a total of seven), making the numbers of carp pathology specimens from the estuarine and freshwater zones approximately equal.

5 Summary and Conclusions

The objectives of the late summer/early fall 2009 field effort were met with regard to the collection of fish and decapod tissue specimens, the fish community survey observations, and fish gross internal and external pathology evaluations. It was not possible to count (or weigh) mummichog eggs or analyze egg lipid content because so few mummichog were collected. However, all collected mummichog specimens were retained for potential tissue analysis. The collection of target specimen eggs will be attempted during the spring 2010 fish community survey. In addition, stomach-content taxonomy data were not collected during the late summer/early fall 2009 field effort because of the limited number of target specimens collected. Therefore, dietary exposure parameters will be defined based on studies available from the literature.

Based on the results of the late summer/early fall 2009 field effort, the LPRSA fish community appears to be generally dominated by a few species, including American eel, white perch, and common carp. Blue crab are also abundant throughout the LPRSA. The fish community appears to be dominated by invertivores and omnivores followed by piscivores. Relatively few benthic omnivore forage fish (e.g., mummichog, darter, or killifish species) were caught in the LPRSA.

According to CPUE calculations, sampling methods such as boat and backpack electrofishing and gillnets were the most efficient in collecting the highest abundance and diversity of species.

Additional fish community surveys conducted in winter 2010 and to be conducted in late spring/early summer 2010 will provide seasonal information on the fish community of the LPRSA. The results of the late summer/early fall 2009 field effort have been used to inform the sampling design of the subsequent surveys. Selected target sampling locations for the winter 2010 survey (Windward 2010b) and late spring/early summer 2010 survey (Windward 2010a) have been based on locations where fish were caught and on sampling methods that yielded successful catches during the late summer/early fall 2009 effort. Per agreement between USEPA and CPG, the use of lethal fishing methods (i.e., gillnets) have been or will be minimized, to the extent possible, in favor of less lethal methods (i.e., electrofishing) for the subsequent fish community surveys.

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APPENDIX A: FIELD FORMS

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/31/2009 14:40	LPR1A-A1	9/1/2009 9:57	LPR1A	Minnow Trap	598896	685986	598862	685983	3.7	
9/1/2009 9:58	LPR1A-A2	9/2/2009 11:52	LPR1A	Minnow Trap	598896	685986	598862	685983	3.7	
9/2/2009 11:59	LPR1AA-A3	9/2/2009 15:53	LPR1A	Minnow Trap	598773	686315	598775	686320	1	
9/2/2009 11:59	LPR1AA-A4	9/3/2009 11:20	LPR1A	Minnow Trap	598773	686315	598775	686320	1	
9/3/2009 11:21	LPR1AA-A5	9/4/2009 9:40	LPR1A	Minnow Trap	598773	686315	598775	686320	1	
9/4/2009 9:45	LPR1AA-A6	9/5/2009 10:05	LPR1A	Minnow Trap	598773	686315	598775	686320	1	
8/31/2009 14:42	LPR1A-B1	9/1/2009 10:00	LPR1A	Minnow Trap	598929	685968	598921	685982	3.8	
9/1/2009 10:01	LPR1A-B2	9/2/2009 11:53	LPR1A	Minnow Trap	598929	685968	598921	685982	3.8	
9/2/2009 12:02	LPR1AA-B3	9/2/2009 15:50	LPR1A	Minnow Trap	598817	686333	598813	686336	1	
9/2/2009 12:02	LPR1AA-B4	9/3/2009 11:23	LPR1A	Minnow Trap	598817	686333	598813	686336	1	
9/3/2009 11:23	LPR1AA-B5	9/4/2009 9:46	LPR1A	Minnow Trap	598817	686333	598813	686336	1	
9/4/2009 9:52	LPR1AA-B6	9/5/2009 10:03	LPR1A	Minnow Trap	598817	686333	598813	686336	1	
8/31/2009 14:43	LPR1A-C1	9/1/2009 10:08	LPR1A	Minnow Trap	598975	685976	598972	685982	3.9	
9/1/2009 10:09	LPR1A-C2	9/2/2009 11:54	LPR1A	Minnow Trap	598975	685976	598972	685982	3.9	
9/2/2009 12:03	LPR1AA-C3	9/2/2009 15:48	LPR1A	Minnow Trap	598851	686353	598850	686350	1	
9/2/2009 12:03	LPR1AA-C4	9/3/2009 11:24	LPR1A	Minnow Trap	598851	686353	598850	686350	1	
9/3/2009 11:25	LPR1AA-C5	9/4/2009 9:53	LPR1A	Minnow Trap	598851	686353	598850	686350	1	
9/4/2009 9:55	LPR1AA-C6	9/5/2009 10:02	LPR1A	Minnow Trap	598851	686353	598850	686350	1	
8/31/2009 14:14	LPR1B-A1	9/1/2009 10:22	LPR1B	Minnow Trap	598132	686251	598145	686254	2.8	
9/1/2009 10:23	LPR1B-A2	9/2/2009 12:33	LPR1B	Minnow Trap	598132	686251	598145	686254	2.8	
8/31/2009 14:16	LPR1B-B1	9/1/2009 10:24	LPR1B	Minnow Trap	598187	686210	598185	686213	2.9	
9/1/2009 10:25	LPR1B-B2	9/2/2009 12:32	LPR1B	Minnow Trap	598187	686210	598185	686213	2.9	
9/2/2009 12:42	LPR1BB-A3	9/2/2009 15:37	LPR1B	Minnow Trap	598274	686375	598257	686353	1	
9/2/2009 12:42	LPR1BB-A4	9/3/2009 11:58	LPR1B	Minnow Trap	598274	686375	598257	686353	1	
9/3/2009 11:59	LPR1BB-A5	9/4/2009 10:25	LPR1B	Minnow Trap	598274	686375	598257	686353	1	
9/4/2009 10:26	LPR1BB-A6	9/5/2009 10:11	LPR1B	Minnow Trap	598274	686375	598257	686353	1	
9/2/2009 12:44	LPR1BB-B3	9/2/2009 15:34	LPR1B	Minnow Trap	598313	686380	598312	686378	1	
9/2/2009 12:44	LPR1BB-B4	9/3/2009 11:56	LPR1B	Minnow Trap	598313	686380	598312	686378	1	
9/3/2009 11:57	LPR1BB-B5	9/4/2009 10:19	LPR1B	Minnow Trap	598313	686380	598312	686378	1	
9/4/2009 10:20	LPR1BB-B6	9/5/2009 10:09	LPR1B	Minnow Trap	598313	686380	598312	686378	1	
9/2/2009 12:46	LPR1BB-C3	9/2/2009 15:32	LPR1B	Minnow Trap	598350	686352	598338	686356	1	
9/2/2009 12:46	LPR1BB-C4	9/3/2009 11:52	LPR1B	Minnow Trap	598350	686352	598338	686356	1	
9/3/2009 11:55	LPR1BB-C5	9/4/2009 10:15	LPR1B	Minnow Trap	598350	686352	598338	686356	1	
9/4/2009 10:17	LPR1BB-C6	9/5/2009 10:08	LPR1B	Minnow Trap	598350	686352	598338	686356	1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/31/2009 14:17	LPR1B-C1	9/1/2009 10:32	LPR1B	Minnow Trap	598211	686190	598209	686193	3	
9/1/2009 10:33	LPR1B-C2	9/2/2009 12:31	LPR1B	Minnow Trap	598211	686190	598209	686193	3	
8/31/2009 13:49	LPR1D-A1	9/1/2009 12:35	LPR1D	Minnow Trap	597406	690445	597403	690438	2.7	
9/1/2009 12:37	LPR1D-A2	9/2/2009 13:13	LPR1D	Minnow Trap	597406	690445	597403	690438	2.7	
9/2/2009 13:14	LPR1D-A3	9/3/2009 12:39	LPR1D	Minnow Trap	597406	690445	597403	690438	2.7	
9/3/2009 11:57	LPR1D-A4	9/4/2009 11:00	LPR1D	Minnow Trap	597406	690445	597403	690438	2.7	
9/4/2009 11:15	LPR1D-A5	9/5/2009 10:56	LPR1D	Minnow Trap	597406	690445	597403	690438	2.7	
8/31/2009 13:50	LPR1D-B1	9/1/2009 12:46	LPR1D	Minnow Trap	597410	690420	597400	690423	2.3	
9/1/2009 12:48	LPR1D-B2	9/2/2009 13:16	LPR1D	Minnow Trap	597410	690420	597400	690423	2.3	
9/2/2009 13:17	LPR1D-B3	n/a	LPR1D	Minnow Trap	597410	690420	597400	690423	2.3	Trap lost
9/4/2009 11:20	LPR1D-B5	9/5/2009 1:11	LPR1D	Minnow Trap	597410	690420	597400	690423	2.3	
8/31/2009 13:52	LPR1D-C1	9/1/2009 12:51	LPR1D	Minnow Trap	597396	690407	597396	690412	2.4	
9/1/2009 12:56	LPR1D-C2	9/2/2009 13:29	LPR1D	Minnow Trap	597396	690407	597396	690412	2.4	
9/2/2009 13:30	LPR1D-C3	n/a	LPR1D	Minnow Trap	597396	690407	597396	690412	2.4	Trap lost
9/4/2009 11:21	LPR1D-C5	9/5/2009 1:11	LPR1D	Minnow Trap	597396	690407	597396	690412	2.4	
8/31/2009 14:14	LPR1F-A1	9/1/2009 12:21	LPR1F	Trotline	598432	693223	598436	693222	10.6	
9/1/2009 12:24	LPR1F-A2	9/2/2009 14:47	LPR1F	Trotline	598432	693223	598436	693222	10.6	
9/2/2009 14:50	LPR1F-A3	9/3/2009 13:46	LPR1F	Trotline	598432	693223	598436	693222	10.6	
9/3/2009 13:48	LPR1F-A4	9/4/2009 12:15	LPR1F	Trotline	598432	693223	598436	693222	10.6	
9/4/2009 12:19	LPR1F-A5	9/5/2009 12:40	LPR1F	Trotline	598432	693223	598436	693222	10.6	
8/31/2009 14:18	LPR1F-B1	9/1/2009 12:25	LPR1F	Trotline	598418	693158	598421	693159	13.4	
9/1/2009 12:27	LPR1F-B2	9/2/2009 14:51	LPR1F	Trotline	598418	693158	598421	693159	13.4	
9/2/2009 14:57	LPR1F-B3	9/3/2009 13:42	LPR1F	Trotline	598418	693158	598421	693159	13.4	
9/3/2009 13:45	LPR1F-B4	n/a	LPR1F	Trotline	598418	693158	598421	693159	13.4	Gear lost
8/31/2009 14:21	LPR1F-C1	9/1/2009 12:28	LPR1F	Trotline	598405	693093	598408	693092	16.6	
9/1/2009 12:31	LPR1F-C2	9/2/2009 14:58	LPR1F	Trotline	598405	693093	598408	693092	16.6	
9/2/2009 15:00	LPR1F-C3	9/3/2009 13:39	LPR1F	Trotline	598405	693093	598408	693092	16.6	
9/3/2009 13:41	LPR1F-C4	9/4/2009 12:10	LPR1F	Trotline	598405	693093	598408	693092	16.6	
9/4/2009 12:14	LPR1F-C5	9/5/2009 12:36	LPR1F	Trotline	598405	693093	598408	693092	16.6	
8/31/2009 14:55	LPR1G-A1	9/1/2009 12:55	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/18/2009 10:03	LPR1G-A10	9/19/2009 10:27	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/1/2009 12:58	LPR1G-A2	9/2/2009 15:29	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/2/2009 15:33	LPR1G-A3	9/3/2009 14:05	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/3/2009 14:07	LPR1G-A4	9/4/2009 12:33	LPR1G	Trotline	597300	689857	597299	689861	10.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/4/2009 12:39	LPR1G-A5	9/5/2009 12:03	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/14/2009 10:26	LPR1G-A6	9/15/2009 10:20	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/15/2009 10:26	LPR1G-A7	9/16/2009 10:56	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/16/2009 11:03	LPR1G-A8	9/17/2009 11:42	LPR1G	Trotline	597300	689857	597299	689861	10.3	
9/17/2009 11:46	LPR1G-A9	9/18/2009 9:58	LPR1G	Trotline	597300	689857	597299	689861	10.3	
8/31/2009 15:03	LPR1G-B1	9/1/2009 12:59	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/18/2009 10:10	LPR1G-B10	9/19/2009 10:35	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/1/2009 13:02	LPR1G-B2	9/2/2009 15:35	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/2/2009 15:36	LPR1G-B3	9/3/2009 14:16	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/3/2009 14:19	LPR1G-B4	9/4/2009 12:39	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/4/2009 12:42	LPR1G-B5	9/5/2009 12:00	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/14/2009 10:35	LPR1G-B6	9/15/2009 10:27	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/15/2009 10:33	LPR1G-B7	9/16/2009 11:05	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/16/2009 11:17	LPR1G-B8	9/17/2009 11:52	LPR1G	Trotline	597277	689776	597272	689789	11.8	
9/17/2009 11:58	LPR1G-B9	9/18/2009 10:04	LPR1G	Trotline	597277	689776	597272	689789	11.8	
8/31/2009 15:09	LPR1G-C1	9/1/2009 13:03	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/18/2009 10:17	LPR1G-C10	9/19/2009 10:42	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/1/2009 13:06	LPR1G-C2	9/2/2009 15:38	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/2/2009 15:41	LPR1G-C3	9/3/2009 14:08	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/3/2009 14:12	LPR1G-C4	9/4/2009 12:43	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/4/2009 12:46	LPR1G-C5	9/5/2009 11:57	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/14/2009 10:43	LPR1G-C6	9/15/2009 10:34	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/15/2009 10:39	LPR1G-C7	9/16/2009 11:17	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/16/2009 11:26	LPR1G-C8	9/17/2009 12:03	LPR1G	Trotline	597275	689720	597285	689722	16.5	
9/17/2009 12:08	LPR1G-C9	9/18/2009 10:11	LPR1G	Trotline	597275	689720	597285	689722	16.5	
8/31/2009 15:31	LPR1H-A1	9/1/2009 13:43	LPR1H	Trotline	596677	687145	596678	687147	21	
9/1/2009 13:47	LPR1H-A2	9/2/2009 16:28	LPR1H	Trotline	596677	687145	596678	687147	21	
9/2/2009 16:30	LPR1H-A3	9/3/2009 14:43	LPR1H	Trotline	596677	687145	596678	687147	21	
9/3/2009 14:45	LPR1H-A4	9/4/2009 13:09	LPR1H	Trotline	596677	687145	596678	687147	21	
9/4/2009 13:14	LPR1H-A5	9/5/2009 11:28	LPR1H	Trotline	596677	687145	596678	687147	21	
9/16/2009 11:42	LPR1H-A6	9/17/2009 12:24	LPR1H	Trotline	596677	687145	596678	687147	21	
9/17/2009 12:33	LPR1H-A7	9/18/2009 10:34	LPR1H	Trotline	596677	687145	596678	687147	21	
9/18/2009 10:40	LPR1H-A8	9/19/2009 11:04	LPR1H	Trotline	596677	687145	596678	687147	21	
8/31/2009 15:37	LPR1H-B1	9/1/2009 13:48	LPR1H	Trotline	596641	687089	596643	687098	19.8	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/1/2009 13:54	LPR1H-B2	9/2/2009 16:25	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/2/2009 16:27	LPR1H-B3	9/3/2009 14:46	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/3/2009 14:47	LPR1H-B4	9/4/2009 13:15	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/4/2009 13:17	LPR1H-B5	9/5/2009 11:25	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/16/2009 11:49	LPR1H-B6	9/17/2009 12:23	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/17/2009 12:28	LPR1H-B7	9/18/2009 10:38	LPR1H	Trotline	596641	687089	596643	687098	19.8	
9/18/2009 10:33	LPR1H-B8	9/19/2009 10:50	LPR1H	Trotline	596641	687089	596643	687098	19.8	
8/31/2009 15:42	LPR1H-C1	9/1/2009 13:55	LPR1H	Trotline	596606	687014	596611	687015	10	
9/1/2009 13:57	LPR1H-C2	9/2/2009 16:22	LPR1H	Trotline	596606	687014	596611	687015	10	
9/2/2009 16:24	LPR1H-C3	9/3/2009 14:48	LPR1H	Trotline	596606	687014	596611	687015	10	
9/3/2009 14:50	LPR1H-C4	9/4/2009 13:19	LPR1H	Trotline	596606	687014	596611	687015	10	
9/4/2009 13:22	LPR1H-C5	9/5/2009 11:23	LPR1H	Trotline	596606	687014	596611	687015	10	
9/16/2009 11:53	LPR1H-C6	9/17/2009 12:18	LPR1H	Trotline	596606	687014	596611	687015	10	
9/17/2009 12:21	LPR1H-C7	9/18/2009 10:22	LPR1H	Trotline	596606	687014	596611	687015	10	
9/18/2009 10:27	LPR1H-C8	9/19/2009 10:55	LPR1H	Trotline	596606	687014	596611	687015	10	
8/31/2009 14:34	LPR1I-A1	9/1/2009 12:33	LPR1I	Gillnet	597815	691563	597827	691568	16.6	
9/1/2009 12:47	LPR1I-A2	9/2/2009 15:02	LPR1I	Gillnet	597815	691563	597827	691568	16.6	
9/2/2009 15:23	LPR1I-A3	9/3/2009 13:52	LPR1I	Gillnet	597815	691563	597827	691568	16.6	
9/3/2009 13:58	LPR1I-A4	9/4/2009 12:22	LPR1I	Gillnet	597815	691563	597827	691568	16.6	
9/4/2009 12:29	LPR1I-A5	9/5/2009 12:13	LPR1I	Gillnet	597815	691563	597827	691568	16.6	
8/31/2009 15:22	LPR1J-A1	9/1/2009 13:10	LPR1J	Gillnet	597403	688334	597398	688339	11.9	
9/1/2009 11:15	LPR1J-A2	9/2/2009 15:46	LPR1J	Gillnet	597403	688334	597398	688339	11.9	
9/2/2009 16:16	LPR1J-A3	9/3/2009 14:23	LPR1J	Gillnet	597403	688334	597398	688339	11.9	
9/3/2009 14:38	LPR1J-A4	9/4/2009 12:51	LPR1J	Gillnet	597403	688334	597398	688339	11.9	
9/4/2009 13:06	LPR1J-A5	9/5/2009 11:34	LPR1J	Gillnet	597403	688334	597398	688339	11.9	
8/31/2009 15:48	LPR1K-A1	9/1/2009 14:04	LPR1K	Gillnet	596648	685583	596645	685592	23.6	
9/1/2009 12:14	LPR1K-A2	9/2/2009 16:33	LPR1K	Gillnet	596648	685583	596645	685592	23.6	
9/2/2009 16:48	LPR1K-A3	9/3/2009 11:10	LPR1K	Gillnet	596648	685583	596645	685592	23.6	
9/3/2009 11:32	LPR1K-A4	9/4/2009 9:39	LPR1K	Gillnet	596648	685583	596645	685592	23.6	
9/4/2009 9:58	LPR1K-A5	9/5/2009 10:55	LPR1K	Gillnet	596648	685583	596645	685592	23.6	
8/31/2009 14:46	LPR1L-A1	9/1/2009 10:10	LPR1L	Crab Trap	598990	685962	598999	685962	3.7	
9/1/2009 10:13	LPR1L-A2	9/2/2009 12:18	LPR1L	Crab Trap	598990	685962	598999	685962	3.7	
9/2/2009 12:20	LPR1L-A3	9/3/2009 11:27	LPR1L	Crab Trap	598990	685962	598999	685962	3.7	
9/3/2009 11:34	LPR1L-A4	9/4/2009 10:00	LPR1L	Crab Trap	598990	685962	598999	685962	3.7	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/4/2009 10:02	LPR1L-A5	9/5/2009 10:35	LPR1L	Crab Trap	598990	685962	598999	685962	3.7	
8/31/2009 14:49	LPR1L-B1	9/1/2009 10:02	LPR1L	Crab Trap	598944	685961	598956	685956	3.9	
9/1/2009 10:03	LPR1L-B2	9/2/2009 12:08	LPR1L	Crab Trap	598944	685961	598956	685956	3.9	
9/2/2009 12:11	LPR1L-B3	9/3/2009 11:35	LPR1L	Crab Trap	598944	685961	598956	685956	3.9	
9/3/2009 11:38	LPR1L-B4	9/4/2009 9:56	LPR1L	Crab Trap	598944	685961	598956	685956	3.9	
9/4/2009 9:59	LPR1L-B5	9/5/2009 10:29	LPR1L	Crab Trap	598944	685961	598956	685956	3.9	
8/31/2009 14:19	LPR1M-A1	9/1/2009 10:30	LPR1M	Crab Trap	598209	686150	598210	686152	3.4	
9/1/2009 10:31	LPR1M-A2	9/2/2009 12:56	LPR1M	Crab Trap	598209	686150	598210	686152	3.4	
9/2/2009 12:57	LPR1M-A3	9/3/2009 12:07	LPR1M	Crab Trap	598209	686150	598210	686152	3.4	
9/3/2009 12:17	LPR1M-A4	9/4/2009 10:29	LPR1M	Crab Trap	598209	686150	598210	686152	3.4	
9/4/2009 10:31	LPR1M-A5	9/5/2009 10:23	LPR1M	Crab Trap	598209	686150	598210	686152	3.4	
8/31/2009 14:21	LPR1M-B1	9/1/2009 10:26	LPR1M	Crab Trap	598170	686188	598174	686182	3.3	
9/1/2009 10:27	LPR1M-B2	9/2/2009 12:53	LPR1M	Crab Trap	598170	686188	598174	686182	3.3	
9/2/2009 12:55	LPR1M-B3	9/3/2009 12:03	LPR1M	Crab Trap	598170	686188	598174	686182	3.3	
9/3/2009 12:05	LPR1M-B4	9/4/2009 10:33	LPR1M	Crab Trap	598170	686188	598174	686182	3.3	
9/4/2009 10:34	LPR1M-B5	9/5/2009 10:29	LPR1M	Crab Trap	598170	686188	598174	686182	3.3	
8/31/2009 14:22	LPR1M-C1	9/1/2009 10:20	LPR1M	Crab Trap	598134	686244	598135	686244	3.1	
9/1/2009 10:21	LPR1M-C2	9/2/2009 12:49	LPR1M	Crab Trap	598134	686244	598135	686244	3.1	
9/2/2009 12:51	LPR1M-C3	9/3/2009 12:00	LPR1M	Crab Trap	598134	686244	598135	686244	3.1	
9/3/2009 12:02	LPR1M-C4	9/4/2009 10:35	LPR1M	Crab Trap	598134	686244	598135	686244	3.1	
9/4/2009 10:36	LPR1M-C5	9/5/2009 10:13	LPR1M	Crab Trap	598134	686244	598135	686244	3.1	
8/31/2009 13:54	LPR1N-A1	9/1/2009 12:49	LPR1N	Crab Trap	597396	690388	597395	690389	4.2	
9/1/2009 12:51	LPR1N-A2	9/2/2009 13:26	LPR1N	Crab Trap	597396	690388	597395	690389	4.2	
9/2/2009 13:28	LPR1N-A3	n/a	LPR1N	Crab Trap	597396	690388	597395	690389	4.2	Trap lost
9/4/2009 11:19	LPR1N-A5	9/5/2009 10:49	LPR1N	Crab Trap	597396	690388	597395	690389	4.2	
8/31/2009 13:55	LPR1N-B1	9/1/2009 12:56	LPR1N	Crab Trap	597385	690364	597387	690368	2.5	
9/1/2009 12:58	LPR1N-B2	9/2/2009 13:31	LPR1N	Crab Trap	597385	690364	597387	690368	2.5	
9/2/2009 13:33	LPR1N-B3	9/3/2009 12:42	LPR1N	Crab Trap	597385	690364	597387	690368	2.5	
9/3/2009 12:58	LPR1N-B4	9/4/2009 11:20	LPR1N	Crab Trap	597385	690364	597387	690368	2.5	
9/4/2009 11:26	LPR1N-B5	9/5/2009 10:45	LPR1N	Crab Trap	597385	690364	597387	690368	2.5	
8/31/2009 13:57	LPR1N-C1	9/1/2009 12:40	LPR1N	Crab Trap	597383	690336	597378	690344	2.3	
9/1/2009 12:45	LPR1N-C2	9/2/2009 13:18	LPR1N	Crab Trap	597383	690336	597378	690344	2.3	
9/2/2009 13:19	LPR1N-C3	n/a	LPR1N	Crab Trap	597383	690336	597378	690344	2.3	Trap lost
9/4/2009 11:18	LPR1N-C5	9/5/2009 10:50	LPR1N	Crab Trap	597383	690336	597378	690344	2.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/31/2009 14:51	LPR1O-A1	9/1/2009 9:55	LPR1O	Eel Trap	598905	685940	598904	685938	3.8	
9/1/2009 9:56	LPR1O-A2	9/2/2009 12:27	LPR1O	Eel Trap	598905	685940	598904	685938	3.8	
9/2/2009 12:28	LPR1O-A3	9/3/2009 11:39	LPR1O	Eel Trap	598905	685940	598904	685938	3.8	
9/3/2009 11:40	LPR1O-A4	9/4/2009 10:11	LPR1O	Eel Trap	598905	685940	598904	685938	3.8	
9/4/2009 10:13	LPR1O-A5	9/5/2009 10:27	LPR1O	Eel Trap	598905	685940	598904	685938	3.8	
8/31/2009 14:53	LPR1O-B1	9/1/2009 10:04	LPR1O	Eel Trap	598980	685944	598990	685941	3.9	
9/1/2009 10:05	LPR1O-B2	9/2/2009 12:25	LPR1O	Eel Trap	598980	685944	598990	685941	3.9	
9/2/2009 12:26	LPR1O-B3	9/3/2009 11:41	LPR1O	Eel Trap	598980	685944	598990	685941	3.9	
9/3/2009 11:43	LPR1O-B4	9/4/2009 10:08	LPR1O	Eel Trap	598980	685944	598990	685941	3.9	
9/4/2009 10:10	LPR1O-B5	9/5/2009 10:32	LPR1O	Eel Trap	598980	685944	598990	685941	3.9	
8/31/2009 14:55	LPR1O-C1	9/1/2009 10:14	LPR1O	Eel Trap	599030	685964	599042	685966	4	
9/1/2009 10:15	LPR1O-C2	9/2/2009 12:22	LPR1O	Eel Trap	599030	685964	599042	685966	4	
9/2/2009 12:24	LPR1O-C3	9/3/2009 11:45	LPR1O	Eel Trap	599030	685964	599042	685966	4	
9/3/2009 11:47	LPR1O-C4	9/4/2009 10:05	LPR1O	Eel Trap	599030	685964	599042	685966	4	
9/4/2009 10:06	LPR1O-C5	9/5/2009 10:34	LPR1O	Eel Trap	599030	685964	599042	685966	4	
8/31/2009 14:24	LPR1P-A1	9/1/2009 10:18	LPR1P	Eel Trap	598134	686212	598131	686206	3.2	
9/1/2009 10:19	LPR1P-A2	9/2/2009 13:02	LPR1P	Eel Trap	598134	686212	598131	686206	3.2	
9/2/2009 13:03	LPR1P-A3	9/3/2009 12:18	LPR1P	Eel Trap	598134	686212	598131	686206	3.2	
9/3/2009 12:21	LPR1P-A4	9/4/2009 10:38	LPR1P	Eel Trap	598134	686212	598131	686206	3.2	
9/4/2009 22:40	LPR1P-A5	9/5/2009 10:17	LPR1P	Eel Trap	598134	686212	598131	686206	3.2	
8/31/2009 14:26	LPR1P-B1	9/1/2009 10:27	LPR1P	Eel Trap	598171	686155	598165	686155	3.2	
9/1/2009 10:28	LPR1P-B2	9/2/2009 13:00	LPR1P	Eel Trap	598171	686155	598165	686155	3.2	
9/2/2009 13:01	LPR1P-B3	9/3/2009 12:22	LPR1P	Eel Trap	598171	686155	598165	686155	3.2	
9/3/2009 12:24	LPR1P-B4	9/4/2009 10:41	LPR1P	Eel Trap	598171	686155	598165	686155	3.2	
9/4/2009 22:43	LPR1P-B5	9/5/2009 10:19	LPR1P	Eel Trap	598171	686155	598165	686155	3.2	
8/31/2009 14:27	LPR1P-C1	9/1/2009 10:29	LPR1P	Eel Trap	598224	686115	598236	686094	3.4	
9/1/2009 10:30	LPR1P-C2	9/2/2009 12:59	LPR1P	Eel Trap	598224	686115	598236	686094	3.4	
9/2/2009 13:00	LPR1P-C3	9/3/2009 12:25	LPR1P	Eel Trap	598224	686115	598236	686094	3.4	
9/3/2009 12:26	LPR1P-C4	9/4/2009 10:44	LPR1P	Eel Trap	598224	686115	598236	686094	3.4	
9/4/2009 22:45	LPR1P-C5	9/5/2009 10:23	LPR1P	Eel Trap	598224	686115	598236	686094	3.4	
8/31/2009 13:59	LPR1Q-A1	9/1/2009 12:32	LPR1Q	Eel Trap	597398	690393	597397	690396	3.9	
9/1/2009 12:33	LPR1Q-A2	9/2/2009 13:23	LPR1Q	Eel Trap	597398	690393	597397	690396	3.9	
9/2/2009 13:25	LPR1Q-A3	9/3/2009 12:37	LPR1Q	Eel Trap	597398	690393	597397	690396	3.9	
9/3/2009 12:55	LPR1Q-A4	9/4/2009 10:56	LPR1Q	Eel Trap	597398	690393	597397	690396	3.9	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/4/2009 10:59	LPR1Q-A5	9/5/2009 10:52	LPR1Q	Eel Trap	597398	690393	597397	690396	3.9	
8/31/2009 14:00	LPR1Q-B1	9/1/2009 12:39	LPR1Q	Eel Trap	597386	690362	597383	690365	2.5	
9/1/2009 12:44	LPR1Q-B2	9/2/2009 13:20	LPR1Q	Eel Trap	597386	690362	597383	690365	2.5	
9/2/2009 13:22	LPR1Q-B3	9/3/2009 12:36	LPR1Q	Eel Trap	597386	690362	597383	690365	2.5	
9/3/2009 12:56	LPR1Q-B4	9/4/2009 11:14	LPR1Q	Eel Trap	597386	690362	597383	690365	2.5	
9/4/2009 11:18	LPR1Q-B5	9/5/2009 10:48	LPR1Q	Eel Trap	597386	690362	597383	690365	2.5	
8/31/2009 14:02	LPR1Q-C1	n/a	LPR1Q	Eel Trap	597372	690333	597373	690333	2.7	Trap lost
9/1/2009 15:25	LPR1R-A1	9/1/2009 15:25	LPR1R	Dip Net	598429	686450	598449	686449	1	
9/2/2009 11:55	LPR1R-A2	9/2/2009 11:55	LPR1R	Dip Net	598429	686450	598449	686449	1	
8/31/2009 13:19	LPR2B-A1	9/1/2009 12:02	LPR2B	Minnow Trap	596927	695098	596928	695100	1.5	
9/1/2009 12:03	LPR2B-A2	9/2/2009 13:43	LPR2B	Minnow Trap	596927	695098	596928	695100	1.5	
9/2/2009 13:43	LPR2B-A3	9/3/2009 14:23	LPR2B	Minnow Trap	596927	695098	596928	695100	1.5	
9/3/2009 14:25	LPR2B-A4	9/4/2009 11:47	LPR2B	Minnow Trap	596927	695098	596928	695100	1.5	
9/4/2009 11:47	LPR2B-A5	9/5/2009 11:08	LPR2B	Minnow Trap	596927	695098	596928	695100	1.5	
8/31/2009 13:21	LPR2B-B1	9/1/2009 12:04	LPR2B	Minnow Trap	596918	695113	596925	695115	1.9	
9/1/2009 12:05	LPR2B-B2	9/2/2009 13:40	LPR2B	Minnow Trap	596918	695113	596925	695115	1.9	
9/2/2009 13:40	LPR2B-B3	9/3/2009 14:23	LPR2B	Minnow Trap	596918	695113	596925	695115	1.9	
9/3/2009 14:25	LPR2B-B4	9/5/2009 14:45	LPR2B	Minnow Trap	596918	695113	596925	695115	1.9	Gear lost, retrieved
9/4/2009 11:48	LPR2B-B5	9/5/2009 11:10	LPR2B	Minnow Trap	596918	695113	596925	695115	1.9	
8/31/2009 13:22	LPR2B-C1	9/1/2009 12:06	LPR2B	Minnow Trap	596909	695136	596907	695131	2.7	
9/1/2009 12:07	LPR2B-C2	9/2/2009 13:47	LPR2B	Minnow Trap	596909	695136	596907	695131	2.7	
9/2/2009 13:47	LPR2B-C3	9/3/2009 14:26	LPR2B	Minnow Trap	596909	695136	596907	695131	2.7	
9/3/2009 14:27	LPR2B-C4	n/a	LPR2B	Minnow Trap	596909	695136	596907	695131	2.7	Trap lost
9/4/2009 11:49	LPR2B-C5	9/5/2009 11:12	LPR2B	Minnow Trap	596909	695136	596907	695131	2.7	
8/31/2009 12:55	LPR2C-A1	9/1/2009 11:51	LPR2C	Minnow Trap	594659	695223	594657	695226	3	
9/1/2009 11:52	LPR2C-A2	9/2/2009 14:22	LPR2C	Minnow Trap	594659	695223	594657	695226	3	
9/2/2009 14:22	LPR2C-A3	9/3/2009 14:10	LPR2C	Minnow Trap	594659	695223	594657	695226	3	
9/3/2009 14:11	LPR2C-A4	9/4/2009 12:03	LPR2C	Minnow Trap	594659	695223	594657	695226	3	
9/4/2009 12:05	LPR2C-A5	9/5/2009 11:40	LPR2C	Minnow Trap	594659	695223	594657	695226	3	
8/31/2009 12:56	LPR2C-B1	9/1/2009 11:53	LPR2C	Minnow Trap	594684	695222	594680	695222	2.6	
9/1/2009 11:54	LPR2C-B2	9/2/2009 14:18	LPR2C	Minnow Trap	594684	695222	594680	695222	2.6	
9/2/2009 14:18	LPR2C-B3	9/3/2009 14:13	LPR2C	Minnow Trap	594684	695222	594680	695222	2.6	
9/3/2009 14:14	LPR2C-B4	9/4/2009 12:01	LPR2C	Minnow Trap	594684	695222	594680	695222	2.6	
9/4/2009 12:02	LPR2C-B5	9/5/2009 11:38	LPR2C	Minnow Trap	594684	695222	594680	695222	2.6	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/31/2009 12:58	LPR2C-C1	9/1/2009 11:56	LPR2C	Minnow Trap	594712	695217	594709	695217	2.2	
9/1/2009 11:57	LPR2C-C2	9/2/2009 14:15	LPR2C	Minnow Trap	594712	695217	594709	695217	2.2	
9/2/2009 14:15	LPR2C-C3	9/3/2009 14:14	LPR2C	Minnow Trap	594712	695217	594709	695217	2.2	
9/3/2009 14:16	LPR2C-C4	9/4/2009 11:59	LPR2C	Minnow Trap	594712	695217	594709	695217	2.2	
9/4/2009 12:01	LPR2C-C5	9/5/2009 11:36	LPR2C	Minnow Trap	594712	695217	594709	695217	2.2	
8/31/2009 12:20	LPR2E-A1	9/1/2009 10:55	LPR2E	Minnow Trap	590135	692883	590126	692885	3	
9/1/2009 10:57	LPR2E-A2	9/2/2009 15:11	LPR2E	Minnow Trap	590135	692883	590126	692885	3	
9/2/2009 15:11	LPR2E-A3	9/3/2009 13:15	LPR2E	Minnow Trap	590135	692883	590126	692885	3	
9/3/2009 13:16	LPR2E-A4	9/4/2009 12:53	LPR2E	Minnow Trap	590135	692883	590126	692885	3	
9/4/2009 12:54	LPR2E-A5	9/5/2009 12:36	LPR2E	Minnow Trap	590135	692883	590126	692885	3	
8/31/2009 12:22	LPR2E-B1	9/1/2009 10:58	LPR2E	Minnow Trap	590181	692915	590172	692915	3	
9/1/2009 10:59	LPR2E-B2	9/2/2009 15:06	LPR2E	Minnow Trap	590181	692915	590172	692915	3	
9/2/2009 15:06	LPR2E-B3	9/3/2009 13:17	LPR2E	Minnow Trap	590181	692915	590172	692915	3	
9/3/2009 13:18	LPR2E-B4	9/4/2009 12:51	LPR2E	Minnow Trap	590181	692915	590172	692915	3	
9/4/2009 12:52	LPR2E-B5	9/5/2009 12:34	LPR2E	Minnow Trap	590181	692915	590172	692915	3	
8/31/2009 12:24	LPR2E-C1	9/1/2009 11:02	LPR2E	Minnow Trap	590210	692946	590211	692944	3.1	
9/1/2009 11:04	LPR2E-C2	9/2/2009 15:04	LPR2E	Minnow Trap	590210	692946	590211	692944	3.1	
9/2/2009 15:04	LPR2E-C3	9/3/2009 13:19	LPR2E	Minnow Trap	590210	692946	590211	692944	3.1	
9/3/2009 13:20	LPR2E-C4	9/4/2009 12:49	LPR2E	Minnow Trap	590210	692946	590211	692944	3.1	
9/4/2009 12:50	LPR2E-C5	9/5/2009 12:33	LPR2E	Minnow Trap	590210	692946	590211	692944	3.1	
8/31/2009 12:35	LPR2F-A1	9/1/2009 10:26	LPR2F	Trotline	590330	692655	590324	692663	16.8	
9/1/2009 10:29	LPR2F-A2	9/2/2009 12:44	LPR2F	Trotline	590330	692655	590324	692663	16.8	
9/2/2009 12:44	LPR2F-A3	n/a	LPR2F	Trotline	590330	692655	590324	692663	16.8	Gear lost
n/a	LPR2F-A4	9/4/2009 14:07	LPR2F	Trotline	590330	692655	590324	692663	16.8	Gear retrieved
9/4/2009 14:10	LPR2F-A5	9/5/2009 13:58	LPR2F	Trotline	590330	692655	590324	692663	16.8	
8/31/2009 12:40	LPR2F-B1	9/1/2009 10:29	LPR2F	Trotline	590398	692688	590394	692681	11.9	
9/1/2009 10:33	LPR2F-B2	9/2/2009 12:51	LPR2F	Trotline	590398	692688	590394	692681	11.9	
9/2/2009 12:51	LPR2F-B3	9/3/2009 12:10	LPR2F	Trotline	590398	692688	590394	692681	11.9	
9/3/2009 12:13	LPR2F-B4	9/4/2009 10:47	LPR2F	Trotline	590398	692688	590394	692681	11.9	
9/4/2009 10:51	LPR2F-B5	n/a	LPR2F	Trotline	590398	692688	590394	692681	11.9	Gear lost
8/31/2009 12:43	LPR2F-C1	9/1/2009 10:35	LPR2F	Trotline	590453	692736	590454	692738	14.1	
9/1/2009 10:38	LPR2F-C2	9/2/2009 13:00	LPR2F	Trotline	590453	692736	590454	692738	14.1	
9/2/2009 13:00	LPR2F-C3	9/3/2009 12:05	LPR2F	Trotline	590453	692736	590454	692738	14.1	
9/3/2009 12:09	LPR2F-C4	9/4/2009 10:42	LPR2F	Trotline	590453	692736	590454	692738	14.1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/4/2009 10:46	LPR2F-C5	n/a	LPR2F	Trotline	590453	692736	590454	692738	14.1	Gear lost
8/31/2009 12:57	LPR2G-A1	9/1/2009 10:58	LPR2G	Trotline	592206	695186	592218	695220	21.9	
9/1/2009 11:00	LPR2G-A2	9/2/2009 13:30	LPR2G	Trotline	592206	695186	592218	695220	21.9	
8/2/2009 13:30	LPR2G-A3	9/3/2009 12:27	LPR2G	Trotline	592206	695186	592218	695220	21.9	
9/3/2009 12:30	LPR2G-A4	9/4/2009 11:03	LPR2G	Trotline	592206	695186	592218	695220	21.9	
9/4/2009 11:07	LPR2G-A5	9/5/2009 13:51	LPR2G	Trotline	592206	695186	592218	695220	21.9	
8/31/2009 13:05	LPR2G-B1	9/1/2009 10:49	LPR2G	Trotline	592289	695245	592278	695250	16.6	
9/1/2009 10:56	LPR2G-B2	9/2/2009 13:19	LPR2G	Trotline	592289	695245	592278	695250	16.6	
9/2/2009 13:19	LPR2G-B3	9/3/2009 12:24	LPR2G	Trotline	592289	695245	592278	695250	16.6	
9/3/2009 12:26	LPR2G-B4	9/4/2009 10:59	LPR2G	Trotline	592289	695245	592278	695250	16.6	
9/4/2009 11:02	LPR2G-B5	9/5/2009 13:46	LPR2G	Trotline	592289	695245	592278	695250	16.6	
8/31/2009 13:10	LPR2G-C1	9/1/2009 10:46	LPR2G	Trotline	592389	695254	592377	695260	23.4	
9/1/2009 10:47	LPR2G-C2	9/2/2009 13:15	LPR2G	Trotline	592389	695254	592377	695260	23.4	
9/2/2009 13:15	LPR2G-C3	9/3/2009 12:21	LPR2G	Trotline	592389	695254	592377	695260	23.4	
9/3/2009 12:23	LPR2G-C4	9/4/2009 10:55	LPR2G	Trotline	592389	695254	592377	695260	23.4	
9/4/2009 10:58	LPR2G-C5	9/5/2009 13:44	LPR2G	Trotline	592389	695254	592377	695260	23.4	
8/31/2009 13:44	LPR2H-A1	9/1/2009 11:27	LPR2H	Trotline	596926	695633	596930	695637	11.4	
9/1/2009 11:30	LPR2H-A2	9/2/2009 14:00	LPR2H	Trotline	596926	695633	596930	695637	11.4	
9/2/2009 14:00	LPR2H-A3	9/3/2009 13:09	LPR2H	Trotline	596926	695633	596930	695637	11.4	
9/3/2009 13:11	LPR2H-A4	9/4/2009 11:33	LPR2H	Trotline	596926	695633	596930	695637	11.4	
9/4/2009 11:37	LPR2H-A5	9/5/2009 13:18	LPR2H	Trotline	596926	695633	596930	695637	11.4	
8/31/2009 13:47	LPR2H-B1	9/1/2009 11:24	LPR2H	Trotline	596999	695612	596999	695616	9.6	
9/1/2009 11:26	LPR2H-B2	9/2/2009 14:05	LPR2H	Trotline	596999	695612	596999	695616	9.6	
9/2/2009 14:05	LPR2H-B3	9/3/2009 13:06	LPR2H	Trotline	596999	695612	596999	695616	9.6	
9/3/2009 13:08	LPR2H-B4	9/4/2009 11:28	LPR2H	Trotline	596999	695612	596999	695616	9.6	
9/4/2009 11:32	LPR2H-B5	9/5/2009 13:15	LPR2H	Trotline	596999	695612	596999	695616	9.6	
8/31/2009 13:52	LPR2H-C1	9/1/2009 11:20	LPR2H	Trotline	597075	695605	597072	695600	5.5	
9/1/2009 11:23	LPR2H-C2	9/2/2009 14:09	LPR2H	Trotline	597075	695605	597072	695600	5.5	
9/2/2009 14:09	LPR2H-C3	9/3/2009 13:04	LPR2H	Trotline	597075	695605	597072	695600	5.5	
9/3/2009 13:06	LPR2H-C4	9/4/2009 11:25	LPR2H	Trotline	597075	695605	597072	695600	5.5	
9/4/2009 11:28	LPR2H-C5	9/5/2009 13:12	LPR2H	Trotline	597075	695605	597072	695600	5.5	
8/31/2009 12:22	LPR2I-A1	9/1/2009 10:02	LPR2I	Gillnet	590170	692618	590155	692581	22.5	
9/1/2009 10:20	LPR2I-A2	9/2/2009 12:26	LPR2I	Gillnet	590170	692618	590155	692581	22.5	
9/2/2009 12:26	LPR2I-A3	9/3/2009 11:50	LPR2I	Gillnet	590170	692618	590155	692581	22.5	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/3/2009 12:00	LPR2I-A4	9/4/2009 10:22	LPR2I	Gillnet	590170	692618	590155	692581	22.5	
9/4/2009 10:37	LPR2I-A5	9/5/2009 14:06	LPR2I	Gillnet	590170	692618	590155	692581	22.5	
8/31/2009 13:20	LPR2J-A1	9/1/2009 11:03	LPR2J	Gillnet	594626	695582	594631	695595	14.8	
9/1/2009 11:15	LPR2J-A2	9/2/2009 13:37	LPR2J	Gillnet	594626	695582	594631	695595	14.8	
9/2/2009 13:37	LPR2J-A3	9/3/2009 12:35	LPR2J	Gillnet	594626	695582	594631	695595	14.8	
9/3/2009 12:53	LPR2J-A4	9/4/2009 11:11	LPR2J	Gillnet	594626	695582	594631	695595	14.8	
9/4/2009 11:18	LPR2J-A5	9/5/2009 13:23	LPR2J	Gillnet	594626	695582	594631	695595	14.8	
8/31/2009 14:02	LPR2K-A1	9/1/2009 11:32	LPR2K	Gillnet	597723	695154	597724	695166	19.2	
9/1/2009 12:14	LPR2K-A2	9/2/2009 14:13	LPR2K	Gillnet	597723	695154	597724	695166	19.2	
9/2/2009 14:13	LPR2K-A3	9/3/2009 13:13	LPR2K	Gillnet	597723	695154	597724	695166	19.2	
9/3/2009 13:28	LPR2K-A4	9/4/2009 11:51	LPR2K	Gillnet	597723	695154	597724	695166	19.2	
9/4/2009 12:04	LPR2K-A5	9/5/2009 12:46	LPR2K	Gillnet	597723	695154	597724	695166	19.2	
8/31/2009 13:24	LPR2L-A1	9/1/2009 12:09	LPR2L	Crab Trap	596870	695156	596867	695157	3.4	
9/1/2009 12:11	LPR2L-A2	9/2/2009 13:51	LPR2L	Crab Trap	596870	695156	596867	695157	3.4	
9/2/2009 13:51	LPR2L-A3	9/3/2009 14:30	LPR2L	Crab Trap	596870	695156	596867	695157	3.4	
9/3/2009 14:36	LPR2L-A4	9/4/2009 11:52	LPR2L	Crab Trap	596870	695156	596867	695157	3.4	
9/4/2009 11:53	LPR2L-A5	9/5/2009 11:18	LPR2L	Crab Trap	596870	695156	596867	695157	3.4	
8/31/2009 13:26	LPR2L-B1	9/1/2009 12:12	LPR2L	Crab Trap	596855	695177	596860	695179	4.5	
9/1/2009 12:14	LPR2L-B2	9/2/2009 13:54	LPR2L	Crab Trap	596855	695177	596860	695179	4.5	
9/2/2009 13:54	LPR2L-B3	9/3/2009 14:31	LPR2L	Crab Trap	596855	695177	596860	695179	4.5	
9/3/2009 14:37	LPR2L-B4	9/4/2009 11:50	LPR2L	Crab Trap	596855	695177	596860	695179	4.5	
9/4/2009 11:52	LPR2L-B5	9/5/2009 11:16	LPR2L	Crab Trap	596855	695177	596860	695179	4.5	
8/31/2009 13:28	LPR2L-C1	9/1/2009 12:15	LPR2L	Crab Trap	596852	695185	596847	695184	4.9	
9/1/2009 12:16	LPR2L-C2	9/2/2009 13:57	LPR2L	Crab Trap	596852	695185	596847	695184	4.9	
9/2/2009 13:57	LPR2L-C3	9/3/2009 14:39	LPR2L	Crab Trap	596852	695185	596847	695184	4.9	
9/3/2009 14:42	LPR2L-C4	9/4/2009 11:53	LPR2L	Crab Trap	596852	695185	596847	695184	4.9	
9/4/2009 11:54	LPR2L-C5	9/5/2009 11:20	LPR2L	Crab Trap	596852	695185	596847	695184	4.9	
8/31/2009 13:00	LPR2M-A1	9/1/2009 11:49	LPR2M	Crab Trap	594559	695225	594563	695228	3.8	
9/1/2009 11:50	LPR2M-A2	9/2/2009 14:24	LPR2M	Crab Trap	594559	695225	594563	695228	3.8	
9/2/2009 14:24	LPR2M-A3	9/3/2009 14:08	LPR2M	Crab Trap	594559	695225	594563	695228	3.8	
9/3/2009 14:09	LPR2M-A4	9/4/2009 12:08	LPR2M	Crab Trap	594559	695225	594563	695228	3.8	
9/4/2009 12:10	LPR2M-A5	9/5/2009 11:41	LPR2M	Crab Trap	594559	695225	594563	695228	3.8	
8/31/2009 13:03	LPR2M-B1	9/1/2009 11:46	LPR2M	Crab Trap	594547	695247	594545	695240	4.4	
9/1/2009 11:48	LPR2M-B2	9/2/2009 14:27	LPR2M	Crab Trap	594547	695247	594545	695240	4.4	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/2/2009 14:27	LPR2M-B3	9/3/2009 14:05	LPR2M	Crab Trap	594547	695247	594545	695240	4.4	
9/3/2009 14:06	LPR2M-B4	9/4/2009 12:10	LPR2M	Crab Trap	594547	695247	594545	695240	4.4	
9/4/2009 12:14	LPR2M-B5	9/5/2009 11:43	LPR2M	Crab Trap	594547	695247	594545	695240	4.4	
8/31/2009 13:04	LPR2M-C1	9/1/2009 11:41	LPR2M	Crab Trap	594494	695251	594496	695245	3.5	
9/1/2009 11:42	LPR2M-C2	9/2/2009 14:32	LPR2M	Crab Trap	594494	695251	594496	695245	3.5	
9/2/2009 14:32	LPR2M-C3	9/3/2009 14:00	LPR2M	Crab Trap	594494	695251	594496	695245	3.5	
9/3/2009 14:03	LPR2M-C4	9/4/2009 12:15	LPR2M	Crab Trap	594494	695251	594496	695245	3.5	
9/4/2009 12:16	LPR2M-C5	9/5/2009 11:45	LPR2M	Crab Trap	594494	695251	594496	695245	3.5	
8/31/2009 12:26	LPR2N-A1	9/1/2009 11:07	LPR2N	Crab Trap	590300	692957	590310	692957	5.6	
9/1/2009 11:11	LPR2N-A2	9/2/2009 15:02	LPR2N	Crab Trap	590300	692957	590310	692957	5.6	
9/2/2009 15:02	LPR2N-A3	9/3/2009 13:22	LPR2N	Crab Trap	590300	692957	590310	692957	5.6	
9/3/2009 13:25	LPR2N-A4	9/4/2009 12:47	LPR2N	Crab Trap	590300	692957	590310	692957	5.6	
9/4/2009 12:48	LPR2N-A5	9/5/2009 14:20	LPR2N	Crab Trap	590300	692957	590310	692957	5.6	
8/31/2009 12:28	LPR2N-B1	9/1/2009 11:12	LPR2N	Crab Trap	590358	693013	590365	693000	6.4	
9/1/2009 11:15	LPR2N-B2	9/2/2009 14:57	LPR2N	Crab Trap	590358	693013	590365	693000	6.4	
9/2/2009 14:57	LPR2N-B3	9/3/2009 13:26	LPR2N	Crab Trap	590358	693013	590365	693000	6.4	
9/3/2009 13:30	LPR2N-B4	9/4/2009 12:41	LPR2N	Crab Trap	590358	693013	590365	693000	6.4	
9/4/2009 12:44	LPR2N-B5	9/5/2009 12:14	LPR2N	Crab Trap	590358	693013	590365	693000	6.4	
8/31/2009 12:30	LPR2N-C1	9/1/2009 11:16	LPR2N	Crab Trap	590391	693044	590422	693046	8.7	
9/1/2009 11:22	LPR2N-C2	9/2/2009 14:59	LPR2N	Crab Trap	590391	693044	590422	693046	8.7	
9/2/2009 14:59	LPR2N-C3	9/3/2009 13:43	LPR2N	Crab Trap	590391	693044	590422	693046	8.7	
9/3/2009 13:46	LPR2N-C4	9/4/2009 12:38	LPR2N	Crab Trap	590391	693044	590422	693046	8.7	
9/4/2009 12:40	LPR2N-C5	9/5/2009 12:09	LPR2N	Crab Trap	590391	693044	590422	693046	8.7	
8/31/2009 13:38	LPR2O-A1	9/1/2009 12:17	LPR2O	Eel Trap	596830	695200	596832	695194	4.4	
9/1/2009 12:19	LPR2O-A2	9/2/2009 14:03	LPR2O	Eel Trap	596830	695200	596832	695194	4.4	
9/2/2009 14:03	LPR2O-A3	9/3/2009 14:42	LPR2O	Eel Trap	596830	695200	596832	695194	4.4	
9/3/2009 14:44	LPR2O-A4	9/4/2009 11:40	LPR2O	Eel Trap	596830	695200	596832	695194	4.4	
9/4/2009 11:41	LPR2O-A5	9/5/2009 11:28	LPR2O	Eel Trap	596830	695200	596832	695194	4.4	
8/31/2009 13:39	LPR2O-B1	9/1/2009 12:19	LPR2O	Eel Trap	596830	695200	596837	695196	4.4	
9/1/2009 12:21	LPR2O-B2	9/2/2009 14:06	LPR2O	Eel Trap	596830	695200	596837	695196	4.4	
9/2/2009 14:06	LPR2O-B3	9/3/2009 14:42	LPR2O	Eel Trap	596830	695200	596837	695196	4.4	
9/3/2009 14:44	LPR2O-B4	9/4/2009 11:39	LPR2O	Eel Trap	596830	695200	596837	695196	4.4	
9/4/2009 11:40	LPR2O-B5	9/5/2009 11:26	LPR2O	Eel Trap	596830	695200	596837	695196	4.4	
8/31/2009 13:40	LPR2O-C1	9/1/2009 12:21	LPR2O	Eel Trap	596830	695200	596813	695207	4.1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/1/2009 12:23	LPR2O-C2	9/2/2009 14:09	LPR2O	Eel Trap	596830	695200	596813	695207	4.1	
9/2/2009 14:09	LPR2O-C3	9/3/2009 14:44	LPR2O	Eel Trap	596830	695200	596813	695207	4.1	
9/3/2009 14:45	LPR2O-C4	9/4/2009 11:37	LPR2O	Eel Trap	596830	695200	596813	695207	4.1	
9/4/2009 11:39	LPR2O-C5	9/5/2009 11:29	LPR2O	Eel Trap	596830	695200	596813	695207	4.1	
8/31/2009 13:07	LPR2P-A1	9/1/2009 11:40	LPR2P	Eel Trap	594475	695217	594464	695224	4.3	
9/1/2009 11:40	LPR2P-A2	9/2/2009 14:39	LPR2P	Eel Trap	594475	695217	594464	695224	4.3	
9/2/2009 14:39	LPR2P-A3	9/3/2009 13:57	LPR2P	Eel Trap	594475	695217	594464	695224	4.3	
9/3/2009 13:58	LPR2P-A4	9/4/2009 12:20	LPR2P	Eel Trap	594475	695217	594464	695224	4.3	
9/4/2009 12:22	LPR2P-A5	9/5/2009 11:51	LPR2P	Eel Trap	594475	695217	594464	695224	4.3	
8/31/2009 13:08	LPR2P-B1	9/1/2009 11:38	LPR2P	Eel Trap	594410	695236	594418	695228	4.2	
9/1/2009 11:39	LPR2P-B2	9/2/2009 14:40	LPR2P	Eel Trap	594410	695236	594418	695228	4.2	
9/2/2009 14:40	LPR2P-B3	9/3/2009 13:56	LPR2P	Eel Trap	594410	695236	594418	695228	4.2	
9/3/2009 13:57	LPR2P-B4	9/4/2009 12:18	LPR2P	Eel Trap	594410	695236	594418	695228	4.2	
9/4/2009 12:19	LPR2P-B5	9/5/2009 11:52	LPR2P	Eel Trap	594410	695236	594418	695228	4.2	
8/31/2009 13:10	LPR2P-C1	9/1/2009 11:43	LPR2P	Eel Trap	594382	695209	594383	695204	3.5	
9/1/2009 11:44	LPR2P-C2	9/2/2009 14:35	LPR2P	Eel Trap	594382	695209	594383	695204	3.5	
9/2/2009 14:35	LPR2P-C3	9/3/2009 13:58	LPR2P	Eel Trap	594382	695209	594383	695204	3.5	
9/3/2009 13:59	LPR2P-C4	9/4/2009 12:16	LPR2P	Eel Trap	594382	695209	594383	695204	3.5	
9/4/2009 12:17	LPR2P-C5	9/5/2009 11:49	LPR2P	Eel Trap	594382	695209	594383	695204	3.5	
8/31/2009 12:37	LPR2Q-A1	9/1/2009 11:24	LPR2Q	Eel Trap	590462	693107	590476	693104	8.6	
9/1/2009 11:25	LPR2Q-A2	9/2/2009 14:54	LPR2Q	Eel Trap	590462	693107	590476	693104	8.6	
9/2/2009 14:54	LPR2Q-A3	9/3/2009 13:31	LPR2Q	Eel Trap	590462	693107	590476	693104	8.6	
9/3/2009 13:32	LPR2Q-A4	9/4/2009 12:34	LPR2Q	Eel Trap	590462	693107	590476	693104	8.6	
9/4/2009 12:36	LPR2Q-A5	9/5/2009 11:59	LPR2Q	Eel Trap	590462	693107	590476	693104	8.6	
8/31/2009 12:40	LPR2Q-B1	9/1/2009 11:26	LPR2Q	Eel Trap	590509	693149	590510	693154	10.9	
9/1/2009 11:29	LPR2Q-B2	9/2/2009 14:51	LPR2Q	Eel Trap	590509	693149	590510	693154	10.9	
9/2/2009 14:51	LPR2Q-B3	9/3/2009 13:32	LPR2Q	Eel Trap	590509	693149	590510	693154	10.9	
9/3/2009 13:33	LPR2Q-B4	9/4/2009 12:36	LPR2Q	Eel Trap	590509	693149	590510	693154	10.9	
9/4/2009 12:37	LPR2Q-B5	9/5/2009 12:07	LPR2Q	Eel Trap	590509	693149	590510	693154	10.9	
8/31/2009 12:41	LPR2Q-C1	9/1/2009 11:29	LPR2Q	Eel Trap	590548	693199	590548	693209	10.7	
9/1/2009 11:31	LPR2Q-C2	9/2/2009 14:48	LPR2Q	Eel Trap	590548	693199	590548	693209	10.7	
9/2/2009 14:48	LPR2Q-C3	9/3/2009 13:33	LPR2Q	Eel Trap	590548	693199	590548	693209	10.7	
9/3/2009 13:34	LPR2Q-C4	9/4/2009 12:31	LPR2Q	Eel Trap	590548	693199	590548	693209	10.7	
9/4/2009 12:33	LPR2Q-C5	9/5/2009 12:01	LPR2Q	Eel Trap	590548	693199	590548	693209	10.7	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/1/2009 14:57	LPR2R-A1	9/1/2009 14:57	LPR2R	Dip Net	596079	695246	596083	695248	1	
8/10/2009 19:16	LPR3A-A1	8/11/2009 13:10	LPR3A	Minnow Trap	588536	692667	588537	692671	1	
8/11/2009 13:15	LPR3A-A2	8/12/2009 11:37	LPR3A	Minnow Trap	588536	692667	588537	692671	1	
8/12/2009 11:39	LPR3A-A3	8/13/2009 9:36	LPR3A	Minnow Trap	588536	692667	588537	692671	1	
8/13/2009 9:37	LPR3A-A4	8/14/2009 9:09	LPR3A	Minnow Trap	588536	692667	588537	692671	1	
8/14/2009 9:11	LPR3A-A5	8/15/2009 8:15	LPR3A	Minnow Trap	588536	692667	588537	692671	1	
8/10/2009 19:17	LPR3A-B1	8/11/2009 13:10	LPR3A	Minnow Trap	588552	692661	588561	692644	1	
8/11/2009 13:15	LPR3A-B2	8/12/2009 11:41	LPR3A	Minnow Trap	588552	692661	588561	692644	1	
8/12/2009 11:43	LPR3A-B3	8/13/2009 9:39	LPR3A	Minnow Trap	588552	692661	588561	692644	1	
8/13/2009 9:40	LPR3A-B4	8/14/2009 9:12	LPR3A	Minnow Trap	588552	692661	588561	692644	1	
8/14/2009 9:13	LPR3A-B5	8/15/2009 8:18	LPR3A	Minnow Trap	588552	692661	588561	692644	1	
8/10/2009 19:18	LPR3A-C1	8/11/2009 1:10	LPR3A	Minnow Trap	588563	692660	588560	692660	1	
8/11/2009 13:15	LPR3A-C2	8/12/2009 11:45	LPR3A	Minnow Trap	588563	692660	588560	692660	1	
8/12/2009 11:46	LPR3A-C3	8/13/2009 9:41	LPR3A	Minnow Trap	588563	692660	588560	692660	1	
8/13/2009 9:43	LPR3A-C4	8/14/2009 9:14	LPR3A	Minnow Trap	588563	692660	588560	692660	1	
8/14/2009 9:19	LPR3A-C5	8/15/2009 8:14	LPR3A	Minnow Trap	588563	692660	588560	692660	1	
8/10/2009 19:09	LPR3B-A1	8/11/2009 8:22	LPR3B	Minnow Trap	587081	692517	587086	692516	1	
8/11/2009 8:22	LPR3B-A2	8/12/2009 11:28	LPR3B	Minnow Trap	587081	692517	587086	692516	1	
8/12/2009 11:29	LPR3B-A3	8/13/2009 9:27	LPR3B	Minnow Trap	587081	692517	587086	692516	1	
8/13/2009 9:35	LPR3B-A4	8/14/2009 9:46	LPR3B	Minnow Trap	587081	692517	587086	692516	1	
8/14/2009 9:46	LPR3B-A5	8/15/2009 8:28	LPR3B	Minnow Trap	587081	692517	587086	692516	1	
8/10/2009 19:10	LPR3B-B1	8/11/2009 8:23	LPR3B	Minnow Trap	587131	692519	587129	692517	1	
8/11/2009 8:24	LPR3B-B2	8/12/2009 11:30	LPR3B	Minnow Trap	587131	692519	587129	692517	1	
8/12/2009 11:32	LPR3B-B3	8/13/2009 9:28	LPR3B	Minnow Trap	587131	692519	587129	692517	1	
8/13/2009 9:36	LPR3B-B4	8/14/2009 9:43	LPR3B	Minnow Trap	587131	692519	587129	692517	1	
8/14/2009 9:45	LPR3B-B5	8/15/2009 8:30	LPR3B	Minnow Trap	587131	692519	587129	692517	1	
8/10/2009 19:11	LPR3B-C1	8/11/2009 8:24	LPR3B	Minnow Trap	587105	692523	587104	692521	1	
8/11/2009 8:25	LPR3B-C2	8/12/2009 11:34	LPR3B	Minnow Trap	587105	692523	587104	692521	1	
8/12/2009 11:35	LPR3B-C3	8/13/2009 9:29	LPR3B	Minnow Trap	587105	692523	587104	692521	1	
8/13/2009 9:37	LPR3B-C4	8/14/2009 9:47	LPR3B	Minnow Trap	587105	692523	587104	692521	1	
8/14/2009 9:48	LPR3B-C5	8/15/2009 8:26	LPR3B	Minnow Trap	587105	692523	587104	692521	1	
8/10/2009 18:44	LPR3C-A1	8/11/2009 8:30	LPR3C	Minnow Trap	585116	694436	585170	694440	1	
8/11/2009 8:35	LPR3C-A2	8/12/2009 11:00	LPR3C	Minnow Trap	585116	694436	585170	694440	1	
8/12/2009 11:03	LPR3C-A3	8/13/2009 8:55	LPR3C	Minnow Trap	585116	694436	585170	694440	1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/13/2009 8:56	LPR3C-A4	8/14/2009 9:23	LPR3C	Minnow Trap	585116	694436	585170	694440	1	
8/14/2009 9:23	LPR3C-A5	8/15/2009 8:54	LPR3C	Minnow Trap	585116	694436	585170	694440	1	
8/10/2009 18:44	LPR3C-B1	8/11/2009 8:36	LPR3C	Minnow Trap	585116	694436	585164	694465	1	
8/11/2009 8:25	LPR3C-B2	8/12/2009 11:05	LPR3C	Minnow Trap	585116	694436	585164	694465	1	
8/12/2009 11:07	LPR3C-B3	8/13/2009 8:56	LPR3C	Minnow Trap	585116	694436	585164	694465	1	
8/13/2009 8:57	LPR3C-B4	8/14/2009 9:24	LPR3C	Minnow Trap	585116	694436	585164	694465	1	
8/14/2009 9:24	LPR3C-B5	8/15/2009 8:53	LPR3C	Minnow Trap	585116	694436	585164	694465	1	
8/10/2009 18:44	LPR3C-C1	8/11/2009 8:36	LPR3C	Minnow Trap	585116	694436	585157	694491	1	
8/11/2009 8:25	LPR3C-C2	8/12/2009 11:28	LPR3C	Minnow Trap	585116	694436	585157	694491	1	
8/12/2009 11:24	LPR3C-C3	8/13/2009 8:57	LPR3C	Minnow Trap	585116	694436	585157	694491	1	
8/13/2009 8:58	LPR3C-C4	8/14/2009 9:25	LPR3C	Minnow Trap	585116	694436	585157	694491	1	
8/14/2009 9:27	LPR3C-C5	8/15/2009 8:51	LPR3C	Minnow Trap	585116	694436	585157	694491	1	
8/10/2009 14:03	LPR3F-A1	8/11/2009 10:54	LPR3F	Crab Trap	584934	698213	584943	698212	6.2	
8/11/2009 10:56	LPR3F-A2	8/12/2009 9:31	LPR3F	Crab Trap	584934	698213	584943	698212	6.2	
8/12/2009 9:52	LPR3F-A3	n/a	LPR3F	Crab Trap	584934	698213	584943	698212	6.2	Trap lost
n/a	LPR3F-A4	8/14/2009 7:44	LPR3F	Crab Trap	584934	698213	584943	698212	6.2	Lost trap retrieved
8/14/2009 7:45	LPR3F-A5	8/15/2009 9:40	LPR3F	Crab Trap	584934	698213	584943	698212	6.2	
8/10/2009 14:05	LPR3F-B1	8/11/2009 10:55	LPR3F	Crab Trap	584932	698182	584935	698184	9.5	
8/11/2009 10:57	LPR3F-B2	8/12/2009 9:29	LPR3F	Crab Trap	584932	698182	584935	698184	9.5	
8/12/2009 9:30	LPR3F-B3	8/13/2009 11:20	LPR3F	Crab Trap	584932	698182	584935	698184	9.5	
8/13/2009 11:20	LPR3F-B4	8/14/2009 7:39	LPR3F	Crab Trap	584932	698182	584935	698184	9.5	
8/14/2009 7:42	LPR3F-B5	8/15/2009 7:12	LPR3F	Crab Trap	584932	698182	584935	698184	9.5	
8/10/2009 14:11	LPR3F-C1	8/11/2009 10:53	LPR3F	Crab Trap	584935	698222	584937	698223	8.4	
8/11/2009 10:58	LPR3F-C2	8/12/2009 9:27	LPR3F	Crab Trap	584935	698222	584937	698223	8.4	
8/12/2009 9:28	LPR3F-C3	n/a	LPR3F	Crab Trap	584935	698222	584937	698223	8.4	Trap lost
n/a	LPR3F-C4	8/14/2009 7:46	LPR3F	Crab Trap	584935	698222	584937	698223	8.4	Lost trap retrieved
8/14/2009 7:53	LPR3F-C5	8/15/2009 7:14	LPR3F	Crab Trap	584935	698222	584937	698223	8.4	
8/10/2009 14:26	LPR3G-A1	8/11/2009 9:06	LPR3G	Crab Trap	584684	696034	584687	696034	10.1	
8/11/2009 9:59	LPR3G-A2	8/12/2009 9:52	LPR3G	Crab Trap	584684	696034	584687	696034	10.1	
8/12/2009 9:53	LPR3G-A3	8/13/2009 11:27	LPR3G	Crab Trap	584684	696034	584687	696034	10.1	
8/13/2009 11:29	LPR3G-A4	8/14/2009 8:55	LPR3G	Crab Trap	584684	696034	584687	696034	10.1	
8/14/2009 8:56	LPR3G-A5	8/15/2009 9:37	LPR3G	Crab Trap	584684	696034	584687	696034	10.1	
8/10/2009 14:29	LPR3G-B1	8/11/2009 9:57	LPR3G	Crab Trap	584692	696005	584695	696006	9.9	
8/11/2009 10:00	LPR3G-B2	8/12/2009 9:51	LPR3G	Crab Trap	584692	696005	584695	696006	9.9	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/12/2009 9:52	LPR3G-B3	8/13/2009 11:28	LPR3G	Crab Trap	584692	696005	584695	696006	9.9	
8/13/2009 11:29	LPR3G-B4	8/14/2009 8:53	LPR3G	Crab Trap	584692	696005	584695	696006	9.9	
8/14/2009 8:54	LPR3G-B5	8/15/2009 9:38	LPR3G	Crab Trap	584692	696005	584695	696006	9.9	
8/10/2009 14:34	LPR3G-C1	8/11/2009 9:58	LPR3G	Crab Trap	584704	695966	584706	695966	9.1	
8/11/2009 10:01	LPR3G-C2	8/12/2009 9:49	LPR3G	Crab Trap	584704	695966	584706	695966	9.1	
8/12/2009 9:50	LPR3G-C3	8/13/2009 11:29	LPR3G	Crab Trap	584704	695966	584706	695966	9.1	
8/13/2009 11:28	LPR3G-C4	8/14/2009 8:52	LPR3G	Crab Trap	584704	695966	584706	695966	9.1	
8/14/2009 8:53	LPR3G-C5	8/15/2009 9:39	LPR3G	Crab Trap	584704	695966	584706	695966	9.1	
8/10/2009 14:39	LPR3H-A1	8/11/2009 13:00	LPR3H	Crab Trap	585657	694237	585660	694238	6.9	
8/11/2009 13:05	LPR3H-A2	8/12/2009 10:01	LPR3H	Crab Trap	585657	694237	585660	694238	6.9	
8/12/2009 10:02	LPR3H-A3	8/13/2009 11:42	LPR3H	Crab Trap	585657	694237	585660	694238	6.9	
8/13/2009 11:42	LPR3H-A4	8/14/2009 9:32	LPR3H	Crab Trap	585657	694237	585660	694238	6.9	
8/14/2009 9:33	LPR3H-A5	8/15/2009 9:20	LPR3H	Crab Trap	585657	694237	585660	694238	6.9	
8/10/2009 14:44	LPR3H-B1	8/11/2009 13:00	LPR3H	Crab Trap	585654	694257	585655	694258	6.6	
8/11/2009 13:05	LPR3H-B2	8/12/2009 10:05	LPR3H	Crab Trap	585654	694257	585655	694258	6.6	
8/12/2009 10:06	LPR3H-B3	8/13/2009 11:41	LPR3H	Crab Trap	585654	694257	585655	694258	6.6	
8/13/2009 11:43	LPR3H-B4	8/14/2009 9:24	LPR3H	Crab Trap	585654	694257	585655	694258	6.6	
8/14/2009 9:37	LPR3H-B5	8/15/2009 9:22	LPR3H	Crab Trap	585654	694257	585655	694258	6.6	
8/10/2009 14:47	LPR3H-C1	8/11/2009 13:00	LPR3H	Crab Trap	585641	694274	585642	694274	8	
8/11/2009 13:05	LPR3H-C2	8/12/2009 10:10	LPR3H	Crab Trap	585641	694274	585642	694274	8	
8/12/2009 10:11	LPR3H-C3	8/13/2009 11:39	LPR3H	Crab Trap	585641	694274	585642	694274	8	
8/13/2009 11:40	LPR3H-C4	8/14/2009 9:25	LPR3H	Crab Trap	585641	694274	585642	694274	8	
8/14/2009 9:30	LPR3H-C5	8/15/2009 9:15	LPR3H	Crab Trap	585641	694274	585642	694274	8	
8/10/2009 14:51	LPR3I-A1	8/11/2009 8:40	LPR3I	Eel Trap	585099	694752	585101	694752	6.6	
8/11/2009 8:41	LPR3I-A2	8/12/2009 10:30	LPR3I	Eel Trap	585099	694752	585101	694752	6.6	
8/12/2009 10:31	LPR3I-A3	8/13/2009 11:23	LPR3I	Eel Trap	585099	694752	585101	694752	6.6	
8/13/2009 11:24	LPR3I-A4	8/14/2009 9:15	LPR3I	Eel Trap	585099	694752	585101	694752	6.6	
8/14/2009 9:16	LPR3I-A5	8/15/2009 9:06	LPR3I	Eel Trap	585099	694752	585101	694752	6.6	
8/10/2009 14:53	LPR3I-B1	8/11/2009 8:41	LPR3I	Eel Trap	585104	694725	585107	694727	6.2	
8/11/2009 8:42	LPR3I-B2	8/12/2009 10:36	LPR3I	Eel Trap	585104	694725	585107	694727	6.2	
8/12/2009 10:39	LPR3I-B3	8/13/2009 11:26	LPR3I	Eel Trap	585104	694725	585107	694727	6.2	
8/13/2009 11:27	LPR3I-B4	8/14/2009 9:17	LPR3I	Eel Trap	585104	694725	585107	694727	6.2	
8/14/2009 9:18	LPR3I-B5	8/15/2009 9:04	LPR3I	Eel Trap	585104	694725	585107	694727	6.2	
8/10/2009 14:56	LPR3I-C1	8/11/2009 8:41	LPR3I	Eel Trap	585111	694698	585113	694700	5.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/11/2009 8:42	LPR3I-C2	8/12/2009 10:40	LPR3I	Eel Trap	585111	694698	585113	694700	5.3	
8/12/2009 10:41	LPR3I-C3	8/13/2009 11:30	LPR3I	Eel Trap	585111	694698	585113	694700	5.3	
8/13/2009 11:31	LPR3I-C4	8/14/2009 9:20	LPR3I	Eel Trap	585111	694698	585113	694700	5.3	
8/14/2009 9:21	LPR3I-C5	8/15/2009 9:02	LPR3I	Eel Trap	585111	694698	585113	694700	5.3	
8/10/2009 15:00	LPR3J-A1	8/11/2009 9:34	LPR3J	Eel Trap	585075	695934	585077	695935	6.1	
8/11/2009 9:35	LPR3J-A2	8/12/2009 9:00	LPR3J	Eel Trap	585075	695934	585077	695935	6.1	
8/12/2009 9:04	LPR3J-A3	8/13/2009 10:58	LPR3J	Eel Trap	585075	695934	585077	695935	6.1	
8/13/2009 10:59	LPR3J-A4	8/14/2009 8:58	LPR3J	Eel Trap	585075	695934	585077	695935	6.1	
8/14/2009 8:59	LPR3J-A5	8/15/2009 9:44	LPR3J	Eel Trap	585075	695934	585077	695935	6.1	
8/10/2009 15:04	LPR3J-B1	8/11/2009 9:34	LPR3J	Eel Trap	585069	695958	585072	695956	6.3	
8/11/2009 9:35	LPR3J-B2	8/12/2009 9:07	LPR3J	Eel Trap	585069	695958	585072	695956	6.3	
8/12/2009 9:10	LPR3J-B3	8/13/2009 10:56	LPR3J	Eel Trap	585069	695958	585072	695956	6.3	
8/13/2009 11:57	LPR3J-B4	8/14/2009 8:57	LPR3J	Eel Trap	585069	695958	585072	695956	6.3	
8/14/2009 8:58	LPR3J-B5	8/15/2009 9:43	LPR3J	Eel Trap	585069	695958	585072	695956	6.3	
8/10/2009 15:08	LPR3J-C1	8/11/2009 9:34	LPR3J	Eel Trap	585056	695993	585057	695993	6.8	
8/11/2009 9:35	LPR3J-C2	8/12/2009 9:12	LPR3J	Eel Trap	585056	695993	585057	695993	6.8	
8/12/2009 9:14	LPR3J-C3	8/13/2009 10:59	LPR3J	Eel Trap	585056	695993	585057	695993	6.8	
8/13/2009 11:00	LPR3J-C4	8/14/2009 9:00	LPR3J	Eel Trap	585056	695993	585057	695993	6.8	
8/14/2009 9:02	LPR3J-C5	8/15/2009 9:46	LPR3J	Eel Trap	585056	695993	585057	695993	6.8	
8/10/2009 15:21	LPR3K-A1	8/11/2009 10:45	LPR3K	Eel Trap	584668	698343	584668	698342	6.5	
8/11/2009 10:48	LPR3K-A2	8/12/2009 8:36	LPR3K	Eel Trap	584668	698343	584668	698342	6.5	
8/12/2009 8:37	LPR3K-A3	8/13/2009 11:15	LPR3K	Eel Trap	584668	698343	584668	698342	6.5	
8/13/2009 11:17	LPR3K-A4	8/14/2009 7:29	LPR3K	Eel Trap	584668	698343	584668	698342	6.5	
8/14/2009 7:34	LPR3K-A5	8/15/2009 7:07	LPR3K	Eel Trap	584668	698343	584668	698342	6.5	
8/10/2009 15:24	LPR3K-B1	8/11/2009 10:46	LPR3K	Eel Trap	584665	698314	584666	698315	5.2	
8/11/2009 10:49	LPR3K-B2	8/12/2009 8:52	LPR3K	Eel Trap	584665	698314	584666	698315	5.2	
8/12/2009 8:53	LPR3K-B3	n/a	LPR3K	Eel Trap	584665	698314	584666	698315	5.2	Trap lost
8/10/2009 15:26	LPR3K-C1	8/11/2009 10:47	LPR3K	Eel Trap	584662	698282	584662	698283	4.7	
8/11/2009 10:50	LPR3K-C2	8/12/2009 8:55	LPR3K	Eel Trap	584662	698282	584662	698283	4.7	
8/12/2009 8:56	LPR3K-C3	8/13/2009 11:06	LPR3K	Eel Trap	584662	698282	584662	698283	4.7	
8/13/2009 11:08	LPR3K-C4	8/14/2009 7:30	LPR3K	Eel Trap	584662	698282	584662	698283	4.7	
8/14/2009 7:33	LPR3K-C5	8/15/2009 7:04	LPR3K	Eel Trap	584662	698282	584662	698283	4.7	
8/10/2009 16:07	LPR3L-A1	8/11/2009 11:08	LPR3L	Trotline	585034	698917	585034	698912	10.2	
8/11/2009 11:20	LPR3L-A2	8/12/2009 8:36	LPR3L	Trotline	585034	698917	585034	698912	10.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/12/2009 8:50	LPR3L-A3	8/13/2009 8:23	LPR3L	Trotline	585034	698917	585034	698912	10.2	
8/13/2009 8:30	LPR3L-A4	8/14/2009 7:12	LPR3L	Trotline	585034	698917	585034	698912	10.2	
8/14/2009 7:14	LPR3L-A5	8/15/2009 9:15	LPR3L	Trotline	585034	698917	585034	698912	10.2	
8/10/2009 16:15	LPR3L-B1	8/11/2009 11:21	LPR3L	Trotline	585005	698841	585019	698886	10.9	
8/11/2009 11:25	LPR3L-B2	8/12/2009 8:52	LPR3L	Trotline	585005	698841	585019	698886	10.9	
8/12/2009 8:58	LPR3L-B3	8/13/2009 8:33	LPR3L	Trotline	585005	698841	585019	698886	10.9	
8/13/2009 8:40	LPR3L-B4	8/14/2009 7:16	LPR3L	Trotline	585005	698841	585019	698886	10.9	
8/14/2009 7:22	LPR3L-B5	8/15/2009 9:25	LPR3L	Trotline	585005	698841	585019	698886	10.9	
8/10/2009 16:22	LPR3L-C1	8/11/2009 11:30	LPR3L	Trotline	584985	698921	584991	698910	12.8	
8/11/2009 11:40	LPR3L-C2	8/12/2009 9:00	LPR3L	Trotline	584985	698921	584991	698910	12.8	
8/12/2009 9:10	LPR3L-C3	8/13/2009 8:43	LPR3L	Trotline	584985	698921	584991	698910	12.8	
8/10/2009 16:37	LPR3M-A1	8/11/2009 10:08	LPR3M	Gillnet	584801	697881	584798	697881	20.8	
8/11/2009 10:09	LPR3M-A2	8/12/2009 9:24	LPR3M	Gillnet	584801	697881	584798	697881	20.8	
8/12/2009 9:55	LPR3M-A3	8/13/2009 9:40	LPR3M	Gillnet	584801	697881	584798	697881	20.8	
8/13/2009 9:55	LPR3M-A4	8/14/2009 7:26	LPR3M	Gillnet	584801	697881	584798	697881	20.8	
8/14/2009 7:36	LPR3M-A5	8/15/2009 8:50	LPR3M	Gillnet	584801	697881	584798	697881	20.8	
8/10/2009 16:53	LPR3N-A1	8/11/2009 9:25	LPR3N	Gillnet	584923	695560	584921	695554	13.4	
8/11/2009 9:40	LPR3N-A2	8/12/2009 10:29	LPR3N	Gillnet	584923	695560	584921	695554	13.4	
8/12/2009 10:52	LPR3N-A3	8/13/2009 10:00	LPR3N	Gillnet	584923	695560	584921	695554	13.4	
8/13/2009 10:18	LPR3N-A4	8/14/2009 7:46	LPR3N	Gillnet	584923	695560	584921	695554	13.4	
8/14/2009 8:05	LPR3N-A5	8/15/2009 8:20	LPR3N	Gillnet	584923	695560	584921	695554	13.4	
8/10/2009 17:05	LPR3O-A1	8/11/2009 7:21	LPR3O	Gillnet	588363	692493	588368	692495	15.4	
8/11/2009 7:30	LPR3O-A2	8/12/2009 11:52	LPR3O	Gillnet	588363	692493	588368	692495	15.4	
8/12/2009 12:00	LPR3O-A3	8/13/2009 11:52	LPR3O	Gillnet	588363	692493	588368	692495	15.4	
8/13/2009 12:08	LPR3O-A4	8/14/2009 8:44	LPR3O	Gillnet	588363	692493	588368	692495	15.4	
8/14/2009 9:00	LPR3O-A5	8/15/2009 7:00	LPR3O	Gillnet	588363	692493	588368	692495	15.4	
8/10/2009 18:01	LPR3P-A1	n/a	LPR3P	Trotline	588135	692233	588105	692248	15.8	Gear lost
8/11/2009 7:45	LPR3P-A2	8/12/2009 12:38	LPR3P	Trotline	588135	692233	588105	692248	15.8	
8/12/2009 12:50	LPR3P-A3	8/13/2009 12:02	LPR3P	Trotline	588135	692233	588105	692248	15.8	
8/13/2009 12:11	LPR3P-A4	8/14/2009 9:10	LPR3P	Trotline	588135	692233	588105	692248	15.8	
8/14/2009 9:15	LPR3P-A5	8/15/2009 7:40	LPR3P	Trotline	588135	692233	588105	692248	15.8	
8/10/2009 18:09	LPR3P-B1	8/11/2009 7:46	LPR3P	Trotline	588117	692222	588111	692223	13.3	
8/11/2009 8:00	LPR3P-B2	8/12/2009 12:30	LPR3P	Trotline	588117	692222	588111	692223	13.3	
8/12/2009 12:35	LPR3P-B3	8/13/2009 12:12	LPR3P	Trotline	588117	692222	588111	692223	13.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/13/2009 12:21	LPR3P-B4	8/14/2009 9:04	LPR3P	Trotline	588117	692222	588111	692223	13.3	
8/14/2009 9:10	LPR3P-B5	8/15/2009 7:44	LPR3P	Trotline	588117	692222	588111	692223	13.3	
8/10/2009 18:13	LPR3P-C1	8/11/2009 8:00	LPR3P	Trotline	588175	692286	588161	692285	15.5	
8/11/2009 8:10	LPR3P-C2	8/12/2009 12:20	LPR3P	Trotline	588175	692286	588161	692285	15.5	
8/12/2009 12:27	LPR3P-C3	8/13/2009 12:22	LPR3P	Trotline	588175	692286	588161	692285	15.5	
8/10/2009 18:24	LPR3Q-A1	8/11/2009 8:50	LPR3Q	Trotline	585048	695036	585049	694994	9.7	
8/11/2009 9:05	LPR3Q-A2	8/12/2009 11:31	LPR3Q	Trotline	585048	695036	585049	694994	9.7	
8/12/2009 11:34	LPR3Q-A3	8/13/2009 10:24	LPR3Q	Trotline	585048	695036	585049	694994	9.7	
8/13/2009 10:45	LPR3Q-A4	8/14/2009 8:32	LPR3Q	Trotline	585048	695036	585049	694994	9.7	
8/14/2009 8:36	LPR3Q-A5	8/15/2009 8:15	LPR3Q	Trotline	585048	695036	585049	694994	9.7	
8/10/2009 18:28	LPR3Q-B1	8/11/2009 9:00	LPR3Q	Trotline	585067	694985	585068	694984	10.8	
8/11/2009 9:10	LPR3Q-B2	8/12/2009 11:36	LPR3Q	Trotline	585067	694985	585068	694984	10.8	
8/12/2009 11:43	LPR3Q-B3	8/13/2009 10:26	LPR3Q	Trotline	585067	694985	585068	694984	10.8	
8/13/2009 10:34	LPR3Q-B4	8/14/2009 8:15	LPR3Q	Trotline	585067	694985	585068	694984	10.8	
8/14/2009 8:30	LPR3Q-B5	8/15/2009 8:00	LPR3Q	Trotline	585067	694985	585068	694984	10.8	
8/10/2009 18:31	LPR3Q-C1	8/11/2009 9:13	LPR3Q	Trotline	585085	694999	585084	694997	11.5	
8/11/2009 9:15	LPR3Q-C2	8/12/2009 11:25	LPR3Q	Trotline	585085	694999	585084	694997	11.5	
8/12/2009 11:28	LPR3Q-C3	8/13/2009 10:48	LPR3Q	Trotline	585085	694999	585084	694997	11.5	
8/13/2009 8:50	LPR4B-A1	8/14/2009 8:13	LPR4B	Minnow Trap	585292	701027	585334	700986	2	
8/14/2009 8:13	LPR4B-A2	8/15/2009 8:18	LPR4B	Minnow Trap	585292	701027	585334	700986	2	
8/17/2009 8:58	LPR4B-A3	8/18/2009 7:50	LPR4B	Minnow Trap	585292	701027	585334	700986	2	
8/18/2009 7:51	LPR4B-A4	8/19/2009 12:00	LPR4B	Minnow Trap	585292	701027	585334	700986	2	
8/19/2009 12:02	LPR4B-A5	n/a	LPR4B	Minnow Trap	585292	701027	585334	700986	2	Trap lost
8/13/2009 8:52	LPR4B-B1	8/14/2009 8:12	LPR4B	Minnow Trap	585340	701009	585341	701008	2	
8/14/2009 8:13	LPR4B-B2	8/15/2009 8:17	LPR4B	Minnow Trap	585340	701009	585341	701008	2	
8/17/2009 8:59	LPR4B-B3	8/18/2009 7:52	LPR4B	Minnow Trap	585340	701009	585341	701008	2	
8/18/2009 7:55	LPR4B-B4	8/19/2009 12:10	LPR4B	Minnow Trap	585340	701009	585341	701008	2	
8/19/2009 12:12	LPR4B-B5	n/a	LPR4B	Minnow Trap	585340	701009	585341	701008	2	Trap lost
8/13/2009 8:54	LPR4B-C1	8/14/2009 8:11	LPR4B	Minnow Trap	585349	701044	585349	701043	2	
8/14/2009 8:12	LPR4B-C2	8/15/2009 8:16	LPR4B	Minnow Trap	585349	701044	585349	701043	2	
8/17/2009 9:00	LPR4B-C3	8/18/2009 7:56	LPR4B	Minnow Trap	585349	701044	585349	701043	2	
8/18/2009 7:57	LPR4B-C4	8/19/2009 12:13	LPR4B	Minnow Trap	585349	701044	585349	701043	2	
8/19/2009 12:14	LPR4B-C5	9/19/2009 13:05	LPR4B	Minnow Trap	585349	701044	585349	701043	2	Trap lost, retrieved
8/13/2009 9:02	LPR4C-A1	8/14/2009 7:50	LPR4C	Minnow Trap	586675	704051	586679	704045	2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/14/2009 7:51	LPR4C-A2	8/15/2009 7:57	LPR4C	Minnow Trap	586675	704051	586679	704045	2	
8/17/2009 8:52	LPR4C-A3	8/18/2009 8:20	LPR4C	Minnow Trap	586675	704051	586679	704045	2	
8/18/2009 8:21	LPR4C-A4	8/19/2009 11:15	LPR4C	Minnow Trap	586675	704051	586679	704045	2	
8/19/2009 11:17	LPR4C-A5	8/20/2009 11:53	LPR4C	Minnow Trap	586675	704051	586679	704045	2	
8/13/2009 9:04	LPR4C-B1	8/14/2009 7:47	LPR4C	Minnow Trap	586706	704096	586719	704097	2	
8/14/2009 7:48	LPR4C-B2	8/15/2009 7:55	LPR4C	Minnow Trap	586706	704096	586719	704097	2	
8/17/2009 8:53	LPR4C-B3	8/18/2009 8:19	LPR4C	Minnow Trap	586706	704096	586719	704097	2	
8/18/2009 8:19	LPR4C-B4	8/19/2009 11:18	LPR4C	Minnow Trap	586706	704096	586719	704097	2	
8/19/2009 11:20	LPR4C-B5	8/20/2009 11:44	LPR4C	Minnow Trap	586706	704096	586719	704097	2	
8/13/2009 9:06	LPR4C-C1	8/14/2009 7:46	LPR4C	Minnow Trap	586739	704185	586743	704185	2	
8/14/2009 7:47	LPR4C-C2	8/15/2009 7:54	LPR4C	Minnow Trap	586739	704185	586743	704185	2	
8/17/2009 8:54	LPR4C-C3	8/18/2009 8:18	LPR4C	Minnow Trap	586739	704185	586743	704185	2	
8/18/2009 8:18	LPR4C-C4	8/19/2009 11:21	LPR4C	Minnow Trap	586739	704185	586743	704185	2	
8/19/2009 11:23	LPR4C-C5	8/20/2009 13:13	LPR4C	Minnow Trap	586739	704185	586743	704185	2	
8/13/2009 9:16	LPR4D-A1	8/14/2009 7:28	LPR4D	Minnow Trap	587496	705712	587489	705720	2	
8/14/2009 7:29	LPR4D-A2	8/15/2009 7:36	LPR4D	Minnow Trap	587496	705712	587489	705720	2	
8/17/2009 8:47	LPR4D-A3	8/18/2009 10:36	LPR4D	Minnow Trap	587496	705712	587489	705720	2	
8/18/2009 10:38	LPR4D-A4	8/19/2009 11:01	LPR4D	Minnow Trap	587496	705712	587489	705720	2	
8/19/2009 11:03	LPR4D-A5	8/20/2009 12:05	LPR4D	Minnow Trap	587496	705712	587489	705720	2	
8/13/2009 9:18	LPR4D-B1	8/14/2009 7:31	LPR4D	Minnow Trap	587519	705801	587496	705790	2	
8/14/2009 7:32	LPR4D-B2	8/15/2009 7:35	LPR4D	Minnow Trap	587519	705801	587496	705790	2	
8/17/2009 8:48	LPR4D-B3	8/18/2009 8:35	LPR4D	Minnow Trap	587519	705801	587496	705790	2	
8/18/2009 8:36	LPR4D-B4	8/19/2009 11:04	LPR4D	Minnow Trap	587519	705801	587496	705790	2	
8/19/2009 11:06	LPR4D-B5	8/20/2009 12:06	LPR4D	Minnow Trap	587519	705801	587496	705790	2	
8/13/2009 9:20	LPR4D-C1	8/14/2009 7:33	LPR4D	Minnow Trap	587574	705842	587572	705839	2	
8/14/2009 7:33	LPR4D-C2	8/15/2009 7:34	LPR4D	Minnow Trap	587574	705842	587572	705839	2	
8/17/2009 8:49	LPR4D-C3	8/18/2009 8:34	LPR4D	Minnow Trap	587574	705842	587572	705839	2	
8/18/2009 8:34	LPR4D-C4	8/19/2009 11:08	LPR4D	Minnow Trap	587574	705842	587572	705839	2	
8/19/2009 11:10	LPR4D-C5	8/20/2009 12:03	LPR4D	Minnow Trap	587574	705842	587572	705839	2	
8/13/2009 9:30	LPR4F-A1	8/14/2009 7:34	LPR4F	Crab Trap	587284	705982	587283	705973	12	
9/18/2009 11:25	LPR4F-A10	9/19/2009 9:42	LPR4F	Crab Trap	587284	705982	587283	705973	12	
8/14/2009 7:35	LPR4F-A2	8/15/2009 7:39	LPR4F	Crab Trap	587284	705982	587283	705973	12	
8/17/2009 7:42	LPR4F-A3	8/18/2009 8:41	LPR4F	Crab Trap	587284	705982	587283	705973	12	
8/18/2009 8:41	LPR4F-A4	8/19/2009 10:57	LPR4F	Crab Trap	587284	705982	587283	705973	12	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/19/2009 10:59	LPR4F-A5	8/20/2009 12:11	LPR4F	Crab Trap	587284	705982	587283	705973	12	
9/14/2009 9:50	LPR4F-A6	9/15/2009 9:12	LPR4F	Crab Trap	587284	705982	587283	705973	12	
9/15/2009 9:15	LPR4F-A7	9/16/2009 9:32	LPR4F	Crab Trap	587284	705982	587283	705973	12	
9/16/2009 9:33	LPR4F-A8	9/17/2009 10:38	LPR4F	Crab Trap	587284	705982	587283	705973	12	
9/17/2009 10:40	LPR4F-A9	9/18/2009 11:23	LPR4F	Crab Trap	587284	705982	587283	705973	12	
8/13/2009 9:32	LPR4F-B1	8/14/2009 7:36	LPR4F	Crab Trap	587319	706033	587313	706034	12	
8/14/2009 7:36	LPR4F-B2	8/15/2009 7:40	LPR4F	Crab Trap	587319	706033	587313	706034	12	
8/17/2009 7:41	LPR4F-B3	8/18/2009 8:42	LPR4F	Crab Trap	587319	706033	587313	706034	12	
8/18/2009 8:44	LPR4F-B4	8/19/2009 10:55	LPR4F	Crab Trap	587319	706033	587313	706034	12	
8/19/2009 10:57	LPR4F-B5	8/20/2009 12:13	LPR4F	Crab Trap	587319	706033	587313	706034	12	
9/14/2009 9:51	LPR4F-B6	9/15/2009 9:16	LPR4F	Crab Trap	587319	706033	587313	706034	12	
9/15/2009 9:18	LPR4F-B7	n/a	LPR4F	Crab Trap	587319	706033	587313	706034	12	Trap lost
9/18/2009 13:37	LPR4F-B8	9/19/2009 9:40	LPR4F	Crab Trap	587319	706033	587313	706034	12	Trap lost, retrieved
8/13/2009 9:34	LPR4F-C1	8/14/2009 7:37	LPR4F	Crab Trap	587339	706119	587352	706120	15	
8/14/2009 7:38	LPR4F-C2	8/15/2009 7:43	LPR4F	Crab Trap	587339	706119	587352	706120	15	
8/17/2009 7:40	LPR4F-C3	8/18/2009 10:32	LPR4F	Crab Trap	587339	706119	587352	706120	15	
8/18/2009 10:33	LPR4F-C4	8/19/2009 10:51	LPR4F	Crab Trap	587339	706119	587352	706120	15	
8/19/2009 10:53	LPR4F-C5	8/20/2009 12:16	LPR4F	Crab Trap	587339	706119	587352	706120	15	
8/13/2009 9:40	LPR4G-A1	8/14/2009 8:01	LPR4G	Crab Trap	586993	704078	586996	704092	15	
9/18/2009 11:12	LPR4G-A10	9/19/2009 15:10	LPR4G	Crab Trap	586993	704078	586996	704092	15	
8/14/2009 8:02	LPR4G-A2	8/15/2009 8:00	LPR4G	Crab Trap	586993	704078	586996	704092	15	
8/17/2009 7:49	LPR4G-A3	8/18/2009 13:55	LPR4G	Crab Trap	586993	704078	586996	704092	15	
8/18/2009 13:57	LPR4G-A4	8/19/2009 11:42	LPR4G	Crab Trap	586993	704078	586996	704092	15	
8/19/2009 11:44	LPR4G-A5	8/20/2009 13:06	LPR4G	Crab Trap	586993	704078	586996	704092	15	
9/14/2009 9:40	LPR4G-A6	9/15/2009 9:05	LPR4G	Crab Trap	586993	704078	586996	704092	15	
9/15/2009 9:07	LPR4G-A7	9/16/2009 9:20	LPR4G	Crab Trap	586993	704078	586996	704092	15	
9/16/2009 9:23	LPR4G-A8	9/17/2009 10:18	LPR4G	Crab Trap	586993	704078	586996	704092	15	
9/17/2009 10:20	LPR4G-A9	9/18/2009 11:11	LPR4G	Crab Trap	586993	704078	586996	704092	15	
8/13/2009 9:42	LPR4G-B1	8/14/2009 8:02	LPR4G	Crab Trap	587028	704121	587032	704128	17	
9/18/2009 11:09	LPR4G-B10	9/19/2009 15:05	LPR4G	Crab Trap	587028	704121	587032	704128	17	
8/14/2009 8:03	LPR4G-B2	8/15/2009 8:02	LPR4G	Crab Trap	587028	704121	587032	704128	17	
8/17/2009 7:50	LPR4G-B3	8/18/2009 10:44	LPR4G	Crab Trap	587028	704121	587032	704128	17	
8/18/2009 10:46	LPR4G-B4	8/19/2009 11:40	LPR4G	Crab Trap	587028	704121	587032	704128	17	
8/19/2009 11:42	LPR4G-B5	8/20/2009 13:03	LPR4G	Crab Trap	587028	704121	587032	704128	17	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/14/2009 9:43	LPR4G-B6	9/15/2009 9:01	LPR4G	Crab Trap	587028	704121	587032	704128	17	
9/15/2009 9:04	LPR4G-B7	n/a	LPR4G	Crab Trap	587028	704121	587032	704128	17	Trap lost
9/16/2009 10:50	LPR4G-B8	9/17/2009 10:14	LPR4G	Crab Trap	587028	704121	587032	704128	17	
9/17/2009 10:16	LPR4G-B9	9/18/2009 11:06	LPR4G	Crab Trap	587028	704121	587032	704128	17	
8/13/2009 9:44	LPR4G-C1	8/14/2009 8:03	LPR4G	Crab Trap	587024	704096	587029	704104	14	
8/14/2009 8:06	LPR4G-C2	8/15/2009 8:04	LPR4G	Crab Trap	587024	704096	587029	704104	14	
8/17/2009 7:51	LPR4G-C3	8/18/2009 10:46	LPR4G	Crab Trap	587024	704096	587029	704104	14	
8/18/2009 10:48	LPR4G-C4	8/19/2009 11:38	LPR4G	Crab Trap	587024	704096	587029	704104	14	
8/19/2009 11:40	LPR4G-C5	8/20/2009 13:44	LPR4G	Crab Trap	587024	704096	587029	704104	14	
8/13/2009 9:56	LPR4H-A1	8/14/2009 8:15	LPR4H	Crab Trap	585284	700790	585274	700807	11	
9/18/2009 9:37	LPR4H-A10	9/19/2009 15:15	LPR4H	Crab Trap	585284	700790	585274	700807	11	
8/14/2009 8:16	LPR4H-A2	8/15/2009 8:20	LPR4H	Crab Trap	585284	700790	585274	700807	11	
8/17/2009 8:00	LPR4H-A3	8/18/2009 7:59	LPR4H	Crab Trap	585284	700790	585274	700807	11	
8/18/2009 8:00	LPR4H-A4	8/19/2009 12:17	LPR4H	Crab Trap	585284	700790	585274	700807	11	
8/19/2009 12:19	LPR4H-A5	8/20/2009 11:26	LPR4H	Crab Trap	585284	700790	585274	700807	11	
9/14/2009 9:30	LPR4H-A6	9/15/2009 8:50	LPR4H	Crab Trap	585284	700790	585274	700807	11	
9/15/2009 8:54	LPR4H-A7	9/16/2009 9:11	LPR4H	Crab Trap	585284	700790	585274	700807	11	
9/16/2009 9:13	LPR4H-A8	9/17/2009 10:09	LPR4H	Crab Trap	585284	700790	585274	700807	11	
9/17/2009 10:11	LPR4H-A9	9/18/2009 9:34	LPR4H	Crab Trap	585284	700790	585274	700807	11	
8/13/2009 9:58	LPR4H-B1	8/14/2009 8:17	LPR4H	Crab Trap	585274	700801	585272	700811	8	
9/18/2009 11:03	LPR4H-B10	9/19/2009 15:26	LPR4H	Crab Trap	585274	700801	585272	700811	8	
8/14/2009 8:21	LPR4H-B2	8/15/2009 8:22	LPR4H	Crab Trap	585274	700801	585272	700811	8	
8/17/2009 8:01	LPR4H-B3	8/18/2009 8:01	LPR4H	Crab Trap	585274	700801	585272	700811	8	
8/18/2009 8:02	LPR4H-B4	8/19/2009 12:20	LPR4H	Crab Trap	585274	700801	585272	700811	8	
8/19/2009 12:22	LPR4H-B5	8/20/2009 11:24	LPR4H	Crab Trap	585274	700801	585272	700811	8	
9/14/2009 9:34	LPR4H-B6	9/15/2009 8:55	LPR4H	Crab Trap	585274	700801	585272	700811	8	
9/15/2009 8:56	LPR4H-B7	9/16/2009 9:14	LPR4H	Crab Trap	585274	700801	585272	700811	8	
9/16/2009 9:16	LPR4H-B8	9/17/2009 10:07	LPR4H	Crab Trap	585274	700801	585272	700811	8	
9/17/2009 10:08	LPR4H-B9	9/18/2009 11:00	LPR4H	Crab Trap	585274	700801	585272	700811	8	
8/13/2009 10:00	LPR4H-C1	8/14/2009 8:22	LPR4H	Crab Trap	585280	700760	585266	700764	9	
8/14/2009 8:24	LPR4H-C2	8/15/2009 8:24	LPR4H	Crab Trap	585280	700760	585266	700764	9	
8/17/2009 8:02	LPR4H-C3	8/18/2009 8:03	LPR4H	Crab Trap	585280	700760	585266	700764	9	
8/18/2009 8:04	LPR4H-C4	8/19/2009 12:26	LPR4H	Crab Trap	585280	700760	585266	700764	9	
8/19/2009 12:29	LPR4H-C5	8/20/2009 11:22	LPR4H	Crab Trap	585280	700760	585266	700764	9	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/13/2009 10:06	LPR4I-A1	8/14/2009 8:25	LPR4I	Eel Trap	585254	700709	585254	700716	7	
8/14/2009 8:26	LPR4I-A2	8/15/2009 8:26	LPR4I	Eel Trap	585254	700709	585254	700716	7	
8/17/2009 8:06	LPR4I-A3	8/18/2009 8:05	LPR4I	Eel Trap	585254	700709	585254	700716	7	
8/18/2009 8:06	LPR4I-A4	8/19/2009 12:23	LPR4I	Eel Trap	585254	700709	585254	700716	7	
8/19/2009 12:25	LPR4I-A5	8/20/2009 11:20	LPR4I	Eel Trap	585254	700709	585254	700716	7	
8/13/2009 10:10	LPR4I-B1	8/14/2009 8:27	LPR4I	Eel Trap	585256	700699	585249	700695	8	
8/14/2009 8:29	LPR4I-B2	8/15/2009 8:28	LPR4I	Eel Trap	585256	700699	585249	700695	8	
8/17/2009 8:07	LPR4I-B3	8/18/2009 8:07	LPR4I	Eel Trap	585256	700699	585249	700695	8	
8/18/2009 8:08	LPR4I-B4	8/19/2009 12:32	LPR4I	Eel Trap	585256	700699	585249	700695	8	
8/19/2009 12:34	LPR4I-B5	8/20/2009 11:21	LPR4I	Eel Trap	585256	700699	585249	700695	8	
8/13/2009 10:12	LPR4I-C1	8/14/2009 8:30	LPR4I	Eel Trap	585246	700674	585243	700671	10	
8/14/2009 8:31	LPR4I-C2	8/15/2009 8:29	LPR4I	Eel Trap	585246	700674	585243	700671	10	
8/17/2009 8:08	LPR4I-C3	8/18/2009 8:13	LPR4I	Eel Trap	585246	700674	585243	700671	10	
8/18/2009 8:14	LPR4I-C4	8/19/2009 12:35	LPR4I	Eel Trap	585246	700674	585243	700671	10	
8/19/2009 12:37	LPR4I-C5	8/20/2009 11:18	LPR4I	Eel Trap	585246	700674	585243	700671	10	
8/13/2009 10:22	LPR4J-A1	8/14/2009 19:52	LPR4J	Eel Trap	586920	703909	586883	703911	18	
8/14/2009 7:53	LPR4J-A2	8/15/2009 8:06	LPR4J	Eel Trap	586920	703909	586883	703911	18	
8/17/2009 7:52	LPR4J-A3	8/18/2009 10:53	LPR4J	Eel Trap	586920	703909	586883	703911	18	
8/18/2009 10:54	LPR4J-A4	8/19/2009 11:31	LPR4J	Eel Trap	586920	703909	586883	703911	18	
8/19/2009 11:33	LPR4J-A5	8/20/2009 13:00	LPR4J	Eel Trap	586920	703909	586883	703911	18	
8/13/2009 10:24	LPR4J-B1	8/14/2009 19:53	LPR4J	Eel Trap	586879	703860	586874	703850	17	
8/14/2009 7:54	LPR4J-B2	8/15/2009 8:07	LPR4J	Eel Trap	586879	703860	586874	703850	17	
8/17/2009 7:53	LPR4J-B3	8/18/2009 8:23	LPR4J	Eel Trap	586879	703860	586874	703850	17	
8/18/2009 8:24	LPR4J-B4	8/19/2009 11:28	LPR4J	Eel Trap	586879	703860	586874	703850	17	
8/19/2009 11:30	LPR4J-B5	8/20/2009 11:39	LPR4J	Eel Trap	586879	703860	586874	703850	17	
8/13/2009 10:26	LPR4J-C1	8/14/2009 19:57	LPR4J	Eel Trap	586869	703813	586871	703813	15	
8/14/2009 7:58	LPR4J-C2	8/15/2009 8:08	LPR4J	Eel Trap	586869	703813	586871	703813	15	
8/17/2009 7:54	LPR4J-C3	8/18/2009 8:25	LPR4J	Eel Trap	586869	703813	586871	703813	15	
8/18/2009 8:26	LPR4J-C4	8/19/2009 11:25	LPR4J	Eel Trap	586869	703813	586871	703813	15	
8/19/2009 11:27	LPR4J-C5	8/20/2009 11:37	LPR4J	Eel Trap	586869	703813	586871	703813	15	
8/13/2009 10:36	LPR4K-A1	8/14/2009 19:40	LPR4K	Eel Trap	587506	706417	587484	706382	10	
8/14/2009 7:41	LPR4K-A2	8/15/2009 7:46	LPR4K	Eel Trap	587506	706417	587484	706382	10	
8/17/2009 7:37	LPR4K-A3	8/18/2009 8:52	LPR4K	Eel Trap	587506	706417	587484	706382	10	
8/18/2009 8:53	LPR4K-A4	8/19/2009 10:46	LPR4K	Eel Trap	587506	706417	587484	706382	10	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/19/2009 10:48	LPR4K-A5	8/20/2009 12:24	LPR4K	Eel Trap	587506	706417	587484	706382	10	
8/13/2009 10:38	LPR4K-B1	8/14/2009 19:41	LPR4K	Eel Trap	587529	706499	587525	706500	7	
8/14/2009 7:42	LPR4K-B2	8/15/2009 7:48	LPR4K	Eel Trap	587529	706499	587525	706500	7	
8/17/2009 7:38	LPR4K-B3	8/18/2009 8:50	LPR4K	Eel Trap	587529	706499	587525	706500	7	
8/18/2009 8:51	LPR4K-B4	8/19/2009 10:42	LPR4K	Eel Trap	587529	706499	587525	706500	7	
8/19/2009 10:45	LPR4K-B5	8/20/2009 12:22	LPR4K	Eel Trap	587529	706499	587525	706500	7	
8/17/2009 10:04	LPR4L-A1	8/18/2009 10:35	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
9/18/2009 13:10	LPR4L-A10	9/19/2009 13:19	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
8/18/2009 10:47	LPR4L-A2	8/19/2009 12:06	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
8/19/2009 12:18	LPR4L-A3	8/20/2009 13:19	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
8/20/2009 13:28	LPR4L-A4	8/21/2009 13:54	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
8/21/2009 14:08	LPR4L-A5	8/22/2009 7:23	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
9/14/2009 10:00	LPR4L-A6	9/15/2009 9:53	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
9/15/2009 10:02	LPR4L-A7	9/16/2009 10:28	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
9/16/2009 10:37	LPR4L-A8	9/17/2009 11:05	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
9/17/2009 11:18	LPR4L-A9	9/18/2009 13:00	LPR4L	Gillnet	585169	700323	585166	700324	8.8	
8/17/2009 11:11	LPR4M-A1	8/18/2009 10:59	LPR4M	Trotline	585148	701596	585151	701600	11	
8/18/2009 11:02	LPR4M-A2	8/19/2009 12:27	LPR4M	Trotline	585148	701596	585151	701600	11	
8/19/2009 12:30	LPR4M-A3	8/20/2009 13:39	LPR4M	Trotline	585148	701596	585151	701600	11	
8/20/2009 13:42	LPR4M-A4	8/21/2009 14:18	LPR4M	Trotline	585148	701596	585151	701600	11	
8/21/2009 14:22	LPR4M-A5	8/22/2009 7:47	LPR4M	Trotline	585148	701596	585151	701600	11	
8/17/2009 10:23	LPR4M-B1	8/18/2009 10:54	LPR4M	Trotline	585124	701502	585118	701504	12.1	
8/18/2009 10:58	LPR4M-B2	8/19/2009 12:21	LPR4M	Trotline	585124	701502	585118	701504	12.1	
8/19/2009 12:25	LPR4M-B3	8/20/2009 13:32	LPR4M	Trotline	585124	701502	585118	701504	12.1	
8/20/2009 13:37	LPR4M-B4	8/21/2009 14:12	LPR4M	Trotline	585124	701502	585118	701504	12.1	
8/21/2009 14:16	LPR4M-B5	8/22/2009 7:53	LPR4M	Trotline	585124	701502	585118	701504	12.1	
8/17/2009 11:13	LPR4M-C1	8/18/2009 11:03	LPR4M	Trotline	585170	701662	585181	701661	10.5	
8/18/2009 11:14	LPR4M-C2	8/19/2009 12:31	LPR4M	Trotline	585170	701662	585181	701661	10.5	
8/19/2009 12:35	LPR4M-C3	8/20/2009 13:44	LPR4M	Trotline	585170	701662	585181	701661	10.5	
8/20/2009 13:49	LPR4M-C4	8/21/2009 14:22	LPR4M	Trotline	585170	701662	585181	701661	10.5	
8/21/2009 14:27	LPR4M-C5	8/22/2009 7:57	LPR4M	Trotline	585170	701662	585181	701661	10.5	
8/17/2009 11:34	LPR4N-A1	8/18/2009 11:20	LPR4N	Trotline	587156	704374	587156	704379	11.2	
8/18/2009 11:23	LPR4N-A2	8/19/2009 12:44	LPR4N	Trotline	587156	704374	587156	704379	11.2	
8/19/2009 12:50	LPR4N-A3	8/20/2009 13:58	LPR4N	Trotline	587156	704374	587156	704379	11.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/20/2009 14:01	LPR4N-A4	8/21/2009 14:42	LPR4N	Trotline	587156	704374	587156	704379	11.2	
8/21/2009 14:48	LPR4N-A5	8/22/2009 8:06	LPR4N	Trotline	587156	704374	587156	704379	11.2	
8/17/2009 11:35	LPR4N-B1	8/18/2009 11:24	LPR4N	Trotline	587084	704275	587082	704273	17.1	
8/18/2009 11:27	LPR4N-B2	8/19/2009 12:39	LPR4N	Trotline	587084	704275	587082	704273	17.1	
8/19/2009 12:43	LPR4N-B3	8/20/2009 13:54	LPR4N	Trotline	587084	704275	587082	704273	17.1	
8/20/2009 13:57	LPR4N-B4	8/21/2009 14:36	LPR4N	Trotline	587084	704275	587082	704273	17.1	
8/21/2009 14:41	LPR4N-B5	9/19/2009 9:55	LPR4N	Trotline	587084	704275	587082	704273	17.1	Gear lost, retrieved
8/17/2009 11:47	LPR4N-C1	8/18/2009 11:28	LPR4N	Trotline	587167	704478	587180	704463	13.8	
8/18/2009 11:34	LPR4N-C2	8/19/2009 12:52	LPR4N	Trotline	587167	704478	587180	704463	13.8	
8/19/2009 12:55	LPR4N-C3	8/20/2009 14:02	LPR4N	Trotline	587167	704478	587180	704463	13.8	
8/20/2009 14:05	LPR4N-C4	8/21/2009 14:31	LPR4N	Trotline	587167	704478	587180	704463	13.8	
8/21/2009 14:34	LPR4N-C5	8/22/2009 8:17	LPR4N	Trotline	587167	704478	587180	704463	13.8	
8/17/2009 11:57	LPR4O-A1	8/18/2009 11:41	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
9/18/2009 12:53	LPR4O-A10	9/19/2009 13:05	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
8/18/2009 11:48	LPR4O-A2	8/19/2009 12:58	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
8/19/2009 13:06	LPR4O-A3	8/20/2009 14:10	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
8/20/2009 14:17	LPR4O-A4	8/21/2009 14:55	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
8/21/2009 15:01	LPR4O-A5	8/22/2009 8:26	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
9/14/2009 9:51	LPR4O-A6	9/15/2009 9:38	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
9/15/2009 9:44	LPR4O-A7	9/16/2009 10:08	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
9/16/2009 10:20	LPR4O-A8	9/17/2009 10:49	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
9/17/2009 10:58	LPR4O-A9	9/18/2009 12:45	LPR4O	Gillnet	587199	705642	587268	705741	16.2	
8/17/2009 12:10	LPR4P-A1	8/18/2009 12:01	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
9/18/2009 12:40	LPR4P-A10	9/19/2009 12:49	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
8/18/2009 12:17	LPR4P-A2	8/19/2009 13:11	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
8/19/2009 13:18	LPR4P-A3	8/20/2009 14:22	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
8/20/2009 14:30	LPR4P-A4	8/21/2009 15:07	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
8/21/2009 15:12	LPR4P-A5	8/22/2009 8:35	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
9/14/2009 9:46	LPR4P-A6	9/15/2009 9:23	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
9/15/2009 9:34	LPR4P-A7	9/16/2009 9:48	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
9/16/2009 10:02	LPR4P-A8	9/17/2009 10:25	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
9/17/2009 10:38	LPR4P-A9	9/18/2009 12:30	LPR4P	Gillnet	588661	707438	588651	707444	12.1	
8/17/2009 12:28	LPR4Q-A1	8/18/2009 12:30	LPR4Q	Trotline	589254	708226	589249	708215	13.2	
8/18/2009 12:37	LPR4Q-A2	8/19/2009 13:34	LPR4Q	Trotline	589254	708226	589249	708215	13.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/19/2009 13:36	LPR4Q-A3	8/20/2009 14:42	LPR4Q	Trotline	589254	708226	589249	708215	13.2	
8/20/2009 14:46	LPR4Q-A4	n/a	LPR4Q	Trotline	589254	708226	589249	708215	13.2	Gear lost
n/a	LPR4Q-A5	8/22/2009 8:49	LPR4Q	Trotline	589254	708226	589249	708215	13.2	Gear retrieved
8/17/2009 12:35	LPR4Q-B1	8/18/2009 12:53	LPR4Q	Trotline	589302	708290	589298	708287	13.4	
8/18/2009 12:57	LPR4Q-B2	8/19/2009 13:37	LPR4Q	Trotline	589302	708290	589298	708287	13.4	
8/19/2009 13:42	LPR4Q-B3	n/a	LPR4Q	Trotline	589302	708290	589298	708287	13.4	Gear lost
n/a	LPR4Q-B5	8/22/2009 7:20	LPR4Q	Trotline	589302	708290	589298	708287	13.4	Gear found
8/17/2009 12:26	LPR4Q-C1	8/18/2009 12:39	LPR4Q	Trotline	589166	708183	589188	708184	14.1	
8/18/2009 12:48	LPR4Q-C2	8/19/2009 13:28	LPR4Q	Trotline	589166	708183	589188	708184	14.1	
8/19/2009 13:33	LPR4Q-C3	8/20/2009 14:48	LPR4Q	Trotline	589166	708183	589188	708184	14.1	
8/20/2009 14:53	LPR4Q-C4	8/21/2009 15:17	LPR4Q	Trotline	589166	708183	589188	708184	14.1	
8/21/2009 15:20	LPR4Q-C5	9/5/2009 15:00	LPR4Q	Trotline	589166	708183	589188	708184	14.1	Gear lost, retrieved
9/18/2009 13:19	LPR4R-A1	9/18/2009 13:19	LPR4R	Boat Electrofishing	587095	705441	587094	705442	8	
9/19/2009 13:59	LPR4R-A2	9/19/2009 13:59	LPR4R	Boat Electrofishing	587095	705441	587094	705442	8	
9/18/2009 13:50	LPR4S-A1	9/18/2009 13:50	LPR4S	Boat Electrofishing	588168	706783	588168	706783	4	
9/19/2009 14:24	LPR4S-A2	9/19/2009 14:24	LPR4S	Boat Electrofishing	588168	706783	588168	706783	4	
9/18/2009 14:10	LPR4T-A1	9/18/2009 14:10	LPR4T	Boat Electrofishing	589044	707879	589042	707878	10	
9/19/2009 12:10	LPR4T-A2	9/19/2009 12:10	LPR4T	Boat Electrofishing	589044	707879	589042	707878	10	
8/17/2009 12:17	LPR5A-A1	8/18/2009 14:12	LPR5A	Minnow Trap	589429	709271	589448	709268	2	
8/18/2009 14:25	LPR5A-A2	8/19/2009 10:29	LPR5A	Minnow Trap	589429	709271	589448	709268	2	
8/19/2009 10:51	LPR5A-A3	8/20/2009 14:18	LPR5A	Minnow Trap	589429	709271	589448	709268	2	
8/20/2009 14:19	LPR5A-A4	8/21/2009 11:50	LPR5A	Minnow Trap	589429	709271	589448	709268	2	
8/21/2009 13:23	LPR5A-A5	8/22/2009 8:19	LPR5A	Minnow Trap	589429	709271	589448	709268	2	
8/17/2009 12:20	LPR5A-B1	8/18/2009 14:14	LPR5A	Minnow Trap	589439	709267	589436	709275	3	
8/18/2009 14:26	LPR5A-B2	8/19/2009 13:08	LPR5A	Minnow Trap	589439	709267	589436	709275	3	
8/19/2009 13:10	LPR5A-B3	8/20/2009 14:22	LPR5A	Minnow Trap	589439	709267	589436	709275	3	
8/20/2009 14:28	LPR5A-B4	8/21/2009 11:51	LPR5A	Minnow Trap	589439	709267	589436	709275	3	
8/21/2009 13:25	LPR5A-B5	8/22/2009 8:16	LPR5A	Minnow Trap	589439	709267	589436	709275	3	
8/17/2009 12:22	LPR5A-C1	8/18/2009 14:20	LPR5A	Minnow Trap	589417	709248	589416	709238	2	
8/18/2009 14:29	LPR5A-C2	8/19/2009 10:32	LPR5A	Minnow Trap	589417	709248	589416	709238	2	
8/19/2009 10:34	LPR5A-C3	8/20/2009 14:29	LPR5A	Minnow Trap	589417	709248	589416	709238	2	
8/20/2009 14:30	LPR5A-C4	8/21/2009 13:27	LPR5A	Minnow Trap	589417	709248	589416	709238	2	
8/21/2009 13:29	LPR5A-C5	8/22/2009 8:13	LPR5A	Minnow Trap	589417	709248	589416	709238	2	
8/17/2009 12:33	LPR5B-A1	8/18/2009 9:26	LPR5B	Minnow Trap	590232	712381	590225	712371	5	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/18/2009 9:26	LPR5B-A2	8/19/2009 9:52	LPR5B	Minnow Trap	590232	712381	590225	712371	5	
8/19/2009 9:53	LPR5B-A3	8/20/2009 16:21	LPR5B	Minnow Trap	590232	712381	590225	712371	5	
8/20/2009 16:23	LPR5B-A4	8/21/2009 12:37	LPR5B	Minnow Trap	590232	712381	590225	712371	5	
8/21/2009 12:38	LPR5B-A5	8/22/2009 7:50	LPR5B	Minnow Trap	590232	712381	590225	712371	5	
8/17/2009 12:35	LPR5B-B1	8/18/2009 9:25	LPR5B	Minnow Trap	590235	712388	590234	712386	5	
8/18/2009 9:25	LPR5B-B2	8/19/2009 9:49	LPR5B	Minnow Trap	590235	712388	590234	712386	5	
8/19/2009 9:51	LPR5B-B3	8/20/2009 16:25	LPR5B	Minnow Trap	590235	712388	590234	712386	5	
8/20/2009 16:27	LPR5B-B4	8/21/2009 12:39	LPR5B	Minnow Trap	590235	712388	590234	712386	5	
8/21/2009 12:41	LPR5B-B5	8/22/2009 7:52	LPR5B	Minnow Trap	590235	712388	590234	712386	5	
8/17/2009 12:37	LPR5B-C1	8/18/2009 9:24	LPR5B	Minnow Trap	590246	712394	590244	712406	5	
8/18/2009 9:24	LPR5B-C2	8/19/2009 9:45	LPR5B	Minnow Trap	590246	712394	590244	712406	5	
8/19/2009 9:48	LPR5B-C3	8/20/2009 16:20	LPR5B	Minnow Trap	590246	712394	590244	712406	5	
8/20/2009 16:20	LPR5B-C4	8/21/2009 12:35	LPR5B	Minnow Trap	590246	712394	590244	712406	5	
8/21/2009 12:36	LPR5B-C5	8/22/2009 7:48	LPR5B	Minnow Trap	590246	712394	590244	712406	5	
8/17/2009 12:59	LPR5C-A1	8/18/2009 9:33	LPR5C	Minnow Trap	592017	717719	592021	717720	3	
8/18/2009 9:34	LPR5C-A2	8/19/2009 9:09	LPR5C	Minnow Trap	592017	717719	592021	717720	3	
8/19/2009 9:11	LPR5C-A3	8/20/2009 16:54	LPR5C	Minnow Trap	592017	717719	592021	717720	3	
8/20/2009 16:56	LPR5C-A4	8/21/2009 13:28	LPR5C	Minnow Trap	592017	717719	592021	717720	3	
8/21/2009 13:29	LPR5C-A5	8/22/2009 7:05	LPR5C	Minnow Trap	592017	717719	592021	717720	3	
8/17/2009 13:01	LPR5C-B1	8/18/2009 9:33	LPR5C	Minnow Trap	592004	717723	592014	717734	3	
8/18/2009 9:33	LPR5C-B2	8/19/2009 9:04	LPR5C	Minnow Trap	592004	717723	592014	717734	3	
8/19/2009 9:07	LPR5C-B3	8/20/2009 16:58	LPR5C	Minnow Trap	592004	717723	592014	717734	3	
8/20/2009 17:00	LPR5C-B4	n/a	LPR5C	Minnow Trap	592004	717723	592014	717734	3	Unable to retrieve (storm)
8/17/2009 13:03	LPR5C-C1	8/18/2009 9:31	LPR5C	Minnow Trap	592011	717734	592011	717746	3	
8/18/2009 9:32	LPR5C-C2	8/19/2009 8:58	LPR5C	Minnow Trap	592011	717734	592011	717746	3	
8/19/2009 9:02	LPR5C-C3	8/20/2009 16:58	LPR5C	Minnow Trap	592011	717734	592011	717746	3	
8/20/2009 17:00	LPR5C-C4	8/21/2009 13:34	LPR5C	Minnow Trap	592011	717734	592011	717746	3	
8/21/2009 13:37	LPR5C-C5	8/22/2009 7:03	LPR5C	Minnow Trap	592011	717734	592011	717746	3	
8/19/2009 14:52	LPR5C-X1	8/20/2009 16:51	LPR5C	5-trap trotline	592017	717770	592017	717774	2	
8/20/2009 16:54	LPR5C-X2	8/21/2009 13:25	LPR5C	5-trap trotline	592017	717770	592017	717774	2	
8/21/2009 13:27	LPR5C-X3	8/22/2009 7:06	LPR5C	5-trap trotline	592017	717770	592017	717774	2	
8/17/2009 8:05	LPR5E-A1	8/18/2009 7:43	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
8/18/2009 7:55	LPR5E-A2	8/19/2009 9:01	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
8/19/2009 9:23	LPR5E-A3	8/20/2009 10:56	LPR5E	Gillnet	589782	711732	589795	711734	19.1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/20/2009 11:09	LPR5E-A4	8/21/2009 11:46	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
8/21/2009 11:54	LPR5E-A5	8/22/2009 9:03	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
9/15/2009 9:17	LPR5E-A6	9/16/2009 9:34	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
9/16/2009 9:40	LPR5E-A7	9/17/2009 10:04	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
9/17/2009 10:19	LPR5E-A8	9/18/2009 11:42	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
9/18/2009 11:50	LPR5E-A9	9/19/2009 10:40	LPR5E	Gillnet	589782	711732	589795	711734	19.1	
8/17/2009 8:20	LPR5F-A1	8/18/2009 8:15	LPR5F	Trotline	589937	711822	589948	711839	13.8	
8/18/2009 8:22	LPR5F-A2	8/19/2009 9:39	LPR5F	Trotline	589937	711822	589948	711839	13.8	
8/19/2009 9:43	LPR5F-A3	8/20/2009 13:07	LPR5F	Trotline	589937	711822	589948	711839	13.8	
8/20/2009 13:09	LPR5F-A4	8/21/2009 12:03	LPR5F	Trotline	589937	711822	589948	711839	13.8	
8/21/2009 12:08	LPR5F-A5	8/22/2009 8:30	LPR5F	Trotline	589937	711822	589948	711839	13.8	
8/17/2009 8:33	LPR5F-B1	8/18/2009 8:05	LPR5F	Trotline	589875	711708	589880	711711	10.7	
8/18/2009 8:13	LPR5F-B2	8/19/2009 9:28	LPR5F	Trotline	589875	711708	589880	711711	10.7	
8/19/2009 9:37	LPR5F-B3	8/20/2009 11:16	LPR5F	Trotline	589875	711708	589880	711711	10.7	
8/20/2009 11:22	LPR5F-B4	8/21/2009 11:56	LPR5F	Trotline	589875	711708	589880	711711	10.7	
8/21/2009 12:02	LPR5F-B5	8/22/2009 8:18	LPR5F	Trotline	589875	711708	589880	711711	10.7	
8/17/2009 8:48	LPR5F-C1	8/18/2009 8:24	LPR5F	Trotline	589978	711900	589980	711904	13.3	
8/18/2009 8:29	LPR5F-C2	8/19/2009 9:45	LPR5F	Trotline	589978	711900	589980	711904	13.3	
8/19/2009 9:51	LPR5F-C3	8/20/2009 11:23	LPR5F	Trotline	589978	711900	589980	711904	13.3	
8/20/2009 11:30	LPR5F-C4	8/21/2009 12:09	LPR5F	Trotline	589978	711900	589980	711904	13.3	
8/21/2009 12:14	LPR5F-C5	8/22/2009 8:28	LPR5F	Trotline	589978	711900	589980	711904	13.3	
8/17/2009 9:04	LPR5G-A1	8/18/2009 8:40	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
8/18/2009 9:02	LPR5G-A2	8/19/2009 10:03	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
8/19/2009 10:22	LPR5G-A3	8/20/2009 11:36	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
8/20/2009 11:50	LPR5G-A4	8/21/2009 12:21	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
8/21/2009 12:28	LPR5G-A5	8/22/2009 9:21	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
9/14/2009 9:37	LPR5G-A6	9/15/2009 8:55	LPR5G	Gillnet	591313	714190	591330	714199	19.2	
8/17/2009 9:16	LPR5H-A1	8/18/2009 9:13	LPR5H	Trotline	591606	715061	591608	715061	12.2	
8/18/2009 9:19	LPR5H-A2	8/19/2009 10:43	LPR5H	Trotline	591606	715061	591608	715061	12.2	
8/19/2009 10:49	LPR5H-A3	8/20/2009 12:04	LPR5H	Trotline	591606	715061	591608	715061	12.2	
8/20/2009 12:08	LPR5H-A4	8/21/2009 12:33	LPR5H	Trotline	591606	715061	591608	715061	12.2	
8/21/2009 12:38	LPR5H-A5	8/22/2009 9:28	LPR5H	Trotline	591606	715061	591608	715061	12.2	
8/17/2009 9:30	LPR5H-B1	8/18/2009 9:09	LPR5H	Trotline	591560	714985	591553	714981	12	
8/18/2009 9:11	LPR5H-B2	8/19/2009 10:36	LPR5H	Trotline	591560	714985	591553	714981	12	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/19/2009 10:41	LPR5H-B3	8/20/2009 11:59	LPR5H	Trotline	591560	714985	591553	714981	12	
8/20/2009 12:02	LPR5H-B4	8/21/2009 15:39	LPR5H	Trotline	591560	714985	591553	714981	12	
8/21/2009 15:42	LPR5H-B5	8/22/2009 9:17	LPR5H	Trotline	591560	714985	591553	714981	12	
8/17/2009 9:34	LPR5H-C1	8/18/2009 9:20	LPR5H	Trotline	591632	715129	591631	715124	9.3	
8/18/2009 9:24	LPR5H-C2	8/19/2009 10:51	LPR5H	Trotline	591632	715129	591631	715124	9.3	
8/19/2009 10:56	LPR5H-C3	8/20/2009 12:09	LPR5H	Trotline	591632	715129	591631	715124	9.3	
8/20/2009 12:12	LPR5H-C4	8/21/2009 12:39	LPR5H	Trotline	591632	715129	591631	715124	9.3	
8/21/2009 12:43	LPR5H-C5	8/22/2009 9:22	LPR5H	Trotline	591632	715129	591631	715124	9.3	
8/17/2009 13:20	LPR5I-A1	8/18/2009 9:51	LPR5I	Gillnet	591812	718377	591812	718376	13	Trap destroyed, not replaced
9/14/2009 9:30	LPR5I-A2	9/15/2009 8:34	LPR5I	Gillnet	591812	718377	591812	718376	13	
9/15/2009 8:49	LPR5I-A3	9/16/2009 9:09	LPR5I	Gillnet	591812	718377	591812	718376	13	
9/16/2009 9:24	LPR5I-A4	9/17/2009 9:52	LPR5I	Gillnet	591812	718377	591812	718376	13	
9/17/2009 10:01	LPR5I-A5	9/18/2009 9:35	LPR5I	Gillnet	591812	718377	591812	718376	13	
9/18/2009 9:45	LPR5I-A6	9/19/2009 9:05	LPR5I	Gillnet	591812	718377	591812	718376	13	
8/17/2009 13:12	LPR5J-A1	8/18/2009 9:30	LPR5J	Trotline	592101	717345	592097	717356	5.3	
8/18/2009 9:35	LPR5J-A2	8/19/2009 11:13	LPR5J	Trotline	592101	717345	592097	717356	5.3	
8/19/2009 11:17	LPR5J-A3	8/20/2009 12:25	LPR5J	Trotline	592101	717345	592097	717356	5.3	
8/20/2009 12:29	LPR5J-A4	8/21/2009 12:58	LPR5J	Trotline	592101	717345	592097	717356	5.3	
8/21/2009 13:01	LPR5J-A5	8/22/2009 9:46	LPR5J	Trotline	592101	717345	592097	717356	5.3	
8/17/2009 13:14	LPR5J-B1	8/18/2009 9:41	LPR5J	Trotline	592149	717249	592143	717261	5.8	
8/18/2009 9:45	LPR5J-B2	8/19/2009 11:06	LPR5J	Trotline	592149	717249	592143	717261	5.8	
8/19/2009 11:11	LPR5J-B3	8/20/2009 12:20	LPR5J	Trotline	592149	717249	592143	717261	5.8	
8/20/2009 12:24	LPR5J-B4	8/21/2009 12:53	LPR5J	Trotline	592149	717249	592143	717261	5.8	
8/21/2009 12:57	LPR5J-B5	8/22/2009 9:44	LPR5J	Trotline	592149	717249	592143	717261	5.8	
8/17/2009 13:16	LPR5J-C1	8/18/2009 9:36	LPR5J	Trotline	592078	717477	592082	717440	3.7	
8/18/2009 9:39	LPR5J-C2	8/19/2009 11:18	LPR5J	Trotline	592078	717477	592082	717440	3.7	
8/19/2009 11:22	LPR5J-C3	8/20/2009 12:30	LPR5J	Trotline	592078	717477	592082	717440	3.7	
8/20/2009 12:33	LPR5J-C4	8/21/2009 13:02	LPR5J	Trotline	592078	717477	592082	717440	3.7	
8/21/2009 13:07	LPR5J-C5	8/22/2009 9:48	LPR5J	Trotline	592078	717477	592082	717440	3.7	
8/17/2009 9:45	LPR5K-A1	8/18/2009 14:04	LPR5K	Crab Trap	289609	708942	589611	708944	20	
9/18/2009 11:35	LPR5K-A10	9/19/2009 9:23	LPR5K	Crab Trap	289609	708942	589611	708944	20	
8/18/2009 14:05	LPR5K-A2	9/5/2009 15:28	LPR5K	Crab Trap	289609	708942	589611	708944	20	Trap lost, retrieved
8/20/2009 16:16	LPR5K-A4	8/21/2009 11:49	LPR5K	Crab Trap	289609	708942	589611	708944	20	
8/21/2009 13:17	LPR5K-A5	8/22/2009 7:58	LPR5K	Crab Trap	289609	708942	589611	708944	20	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/14/2009 10:13	LPR5K-A6	9/15/2009 9:27	LPR5K	Crab Trap	289609	708942	589611	708944	20	
9/15/2009 9:27	LPR5K-A7	9/16/2009 9:43	LPR5K	Crab Trap	289609	708942	589611	708944	20	
9/16/2009 9:45	LPR5K-A8	9/17/2009 10:46	LPR5K	Crab Trap	289609	708942	589611	708944	20	
9/17/2009 10:48	LPR5K-A9	9/18/2009 11:34	LPR5K	Crab Trap	289609	708942	589611	708944	20	
8/17/2009 9:49	LPR5K-B1	8/18/2009 14:05	LPR5K	Crab Trap	589630	708972	589628	708970	20	
9/18/2009 11:33	LPR5K-B10	9/19/2009 9:27	LPR5K	Crab Trap	589630	708972	589628	708970	20	
8/18/2009 14:06	LPR5K-B2	8/19/2009 14:43	LPR5K	Crab Trap	589630	708972	589628	708970	20	
8/19/2009 14:45	LPR5K-B3	8/20/2009 14:05	LPR5K	Crab Trap	589630	708972	589628	708970	20	
8/20/2009 16:14	LPR5K-B4	8/21/2009 11:48	LPR5K	Crab Trap	589630	708972	589628	708970	20	
8/21/2009 13:18	LPR5K-B5	9/14/2009 11:45	LPR5K	Crab Trap	589630	708972	589628	708970	20	Trap lost, retrieved
9/14/2009 10:15	LPR5K-B6	9/15/2009 9:28	LPR5K	Crab Trap	589630	708972	589628	708970	20	
9/15/2009 9:31	LPR5K-B7	9/16/2009 9:46	LPR5K	Crab Trap	589630	708972	589628	708970	20	
9/16/2009 9:48	LPR5K-B8	9/17/2009 10:50	LPR5K	Crab Trap	589630	708972	589628	708970	20	
9/17/2009 10:55	LPR5K-B9	9/18/2009 11:32	LPR5K	Crab Trap	589630	708972	589628	708970	20	
8/17/2009 9:53	LPR5K-C1	8/18/2009 14:08	LPR5K	Crab Trap	589639	708977	589633	708981	20	
8/18/2009 14:09	LPR5K-C2	9/5/2009 15:34	LPR5K	Crab Trap	589639	708977	589633	708981	20	Trap lost, retrieved
n/a	LPR5K-C3	n/a	LPR5K	Crab Trap	589639	708977	589633	708981	20	
8/20/2009 16:18	LPR5K-C4	8/21/2009 12:09	LPR5K	Crab Trap	589639	708977	589633	708981	20	
8/21/2009 13:19	LPR5K-C5	n/a	LPR5K	Crab Trap	589639	708977	589633	708981	20	Trap lost
8/17/2009 9:58	LPR5L-A1	8/18/2009 14:10	LPR5L	Eel Trap	589637	709103	589634	709089	15	
8/18/2009 14:11	LPR5L-A2	8/19/2009 13:00	LPR5L	Eel Trap	589637	709103	589634	709089	15	
8/19/2009 13:02	LPR5L-A3	8/20/2009 14:13	LPR5L	Eel Trap	589637	709103	589634	709089	15	
8/20/2009 14:14	LPR5L-A4	8/21/2009 11:44	LPR5L	Eel Trap	589637	709103	589634	709089	15	
8/21/2009 13:20	LPR5L-A5	8/22/2009 8:02	LPR5L	Eel Trap	589637	709103	589634	709089	15	
8/17/2009 10:05	LPR5L-B1	8/18/2009 10:13	LPR5L	Eel Trap	589625	709119	589629	709115	10	
8/18/2009 10:15	LPR5L-B2	8/19/2009 13:04	LPR5L	Eel Trap	589625	709119	589629	709115	10	
8/19/2009 13:06	LPR5L-B3	8/20/2009 14:04	LPR5L	Eel Trap	589625	709119	589629	709115	10	
8/20/2009 14:12	LPR5L-B4	8/21/2009 11:46	LPR5L	Eel Trap	589625	709119	589629	709115	10	
8/21/2009 13:21	LPR5L-B5	8/22/2009 8:09	LPR5L	Eel Trap	589625	709119	589629	709115	10	
8/17/2009 10:09	LPR5L-C1	8/18/2009 9:02	LPR5L	Eel Trap	589628	709115	589637	709119	13	
8/18/2009 9:03	LPR5L-C2	8/19/2009 13:48	LPR5L	Eel Trap	589628	709115	589637	709119	13	
8/19/2009 13:50	LPR5L-C3	8/20/2009 14:09	LPR5L	Eel Trap	589628	709115	589637	709119	13	
8/20/2009 14:11	LPR5L-C4	8/21/2009 12:15	LPR5L	Eel Trap	589628	709115	589637	709119	13	
8/21/2009 13:22	LPR5L-C5	8/22/2009 8:06	LPR5L	Eel Trap	589628	709115	589637	709119	13	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/17/2009 10:19	LPR5M-A1	8/18/2009 9:14	LPR5M	Crab Trap	590284	712975	590284	712972	15	
9/18/2009 11:42	LPR5M-A10	9/19/2009 9:16	LPR5M	Crab Trap	590284	712975	590284	712972	15	
8/18/2009 9:14	LPR5M-A2	8/19/2009 9:56	LPR5M	Crab Trap	590284	712975	590284	712972	15	
8/19/2009 9:58	LPR5M-A3	8/20/2009 16:29	LPR5M	Crab Trap	590284	712975	590284	712972	15	
8/20/2009 16:31	LPR5M-A4	8/21/2009 15:38	LPR5M	Crab Trap	590284	712975	590284	712972	15	
8/21/2009 15:40	LPR5M-A5	8/22/2009 7:37	LPR5M	Crab Trap	590284	712975	590284	712972	15	
9/14/2009 10:20	LPR5M-A6	9/15/2009 9:35	LPR5M	Crab Trap	590284	712975	590284	712972	15	
9/15/2009 9:38	LPR5M-A7	9/16/2009 9:54	LPR5M	Crab Trap	590284	712975	590284	712972	15	
9/16/2009 9:55	LPR5M-A8	9/17/2009 10:58	LPR5M	Crab Trap	590284	712975	590284	712972	15	
9/17/2009 11:00	LPR5M-A9	9/18/2009 11:40	LPR5M	Crab Trap	590284	712975	590284	712972	15	
8/17/2009 10:21	LPR5M-B1	8/18/2009 9:17	LPR5M	Crab Trap	590291	712995	590294	712998	15	
8/18/2009 9:17	LPR5M-B2	8/19/2009 10:01	LPR5M	Crab Trap	590291	712995	590294	712998	15	
8/19/2009 10:05	LPR5M-B3	9/5/2009 15:28	LPR5M	Crab Trap	590291	712995	590294	712998	15	Trap lost, retrieved
9/14/2009 10:21	LPR5M-B4	9/15/2009 9:39	LPR5M	Crab Trap	590291	712995	590294	712998	15	
9/15/2009 9:39	LPR5M-B5	9/16/2009 9:55	LPR5M	Crab Trap	590291	712995	590294	712998	15	
9/16/2009 9:56	LPR5M-B6	9/17/2009 11:01	LPR5M	Crab Trap	590291	712995	590294	712998	15	
9/17/2009 11:03	LPR5M-B7	9/18/2009 13:45	LPR5M	Crab Trap	590291	712995	590294	712998	15	
9/18/2009 13:51	LPR5M-B8	9/19/2009 9:12	LPR5M	Crab Trap	590291	712995	590294	712998	15	
8/17/2009 10:23	LPR5M-C1	8/18/2009 9:15	LPR5M	Crab Trap	590293	713002	590300	713002	13	
8/18/2009 9:16	LPR5M-C2	8/19/2009 9:59	LPR5M	Crab Trap	590293	713002	590300	713002	13	
8/19/2009 10:01	LPR5M-C3	8/20/2009 16:33	LPR5M	Crab Trap	590293	713002	590300	713002	13	
8/20/2009 16:35	LPR5M-C4	8/21/2009 12:55	LPR5M	Crab Trap	590293	713002	590300	713002	13	
8/21/2009 12:57	LPR5M-C5	8/22/2009 7:39	LPR5M	Crab Trap	590293	713002	590300	713002	13	
8/17/2009 10:26	LPR5N-A1	8/18/2009 9:18	LPR5N	Eel Trap	590323	713045	590329	713051	13	
8/18/2009 9:19	LPR5N-A2	8/19/2009 10:04	LPR5N	Eel Trap	590323	713045	590329	713051	13	
8/19/2009 10:06	LPR5N-A3	8/20/2009 16:38	LPR5N	Eel Trap	590323	713045	590329	713051	13	
8/20/2009 16:39	LPR5N-A4	n/a	LPR5N	Eel Trap	590323	713045	590329	713051	13	Unable to retrieve (storm)
n/a	LPR5N-A5	8/22/2009 7:34	LPR5N	Eel Trap	590323	713045	590329	713051	13	Trap lost
8/17/2009 10:28	LPR5N-B1	8/18/2009 9:21	LPR5N	Eel Trap	590335	713066	590343	713069	12	
8/18/2009 9:22	LPR5N-B2	8/19/2009 10:07	LPR5N	Eel Trap	590335	713066	590343	713069	12	
8/19/2009 10:09	LPR5N-B3	8/20/2009 16:37	LPR5N	Eel Trap	590335	713066	590343	713069	12	
8/20/2009 16:38	LPR5N-B4	8/21/2009 12:45	LPR5N	Eel Trap	590335	713066	590343	713069	12	
8/21/2009 12:47	LPR5N-B5	8/22/2009 7:36	LPR5N	Eel Trap	590335	713066	590343	713069	12	
8/17/2009 10:30	LPR5N-C1	8/18/2009 9:20	LPR5N	Eel Trap	590338	713080	590343	713089	15	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/18/2009 9:21	LPR5N-C2	8/19/2009 10:10	LPR5N	Eel Trap	590338	713080	590343	713089	15	
8/19/2009 10:12	LPR5N-C3	8/20/2009 16:39	LPR5N	Eel Trap	590338	713080	590343	713089	15	
8/20/2009 4:40	LPR5N-C4	8/21/2009 12:49	LPR5N	Eel Trap	590338	713080	590343	713089	15	
8/21/2009 12:51	LPR5N-C5	8/22/2009 7:35	LPR5N	Eel Trap	590338	713080	590343	713089	15	
8/17/2009 10:38	LPR5O-A1	8/18/2009 9:37	LPR5O	Crab Trap	591813	717645	591814	717645	15	
9/18/2009 14:02	LPR5O-A10	9/19/2009 9:04	LPR5O	Crab Trap	591813	717645	591814	717645	15	
8/18/2009 9:38	LPR5O-A2	8/19/2009 9:26	LPR5O	Crab Trap	591813	717645	591814	717645	15	
8/19/2009 9:29	LPR5O-A3	8/20/2009 17:08	LPR5O	Crab Trap	591813	717645	591814	717645	15	
8/20/2009 17:09	LPR5O-A4	8/21/2009 13:41	LPR5O	Crab Trap	591813	717645	591814	717645	15	
8/21/2009 13:43	LPR5O-A5	8/22/2009 7:24	LPR5O	Crab Trap	591813	717645	591814	717645	15	
9/14/2009 10:27	LPR5O-A6	9/15/2009 9:46	LPR5O	Crab Trap	591813	717645	591814	717645	15	
9/15/2009 9:48	LPR5O-A7	9/16/2009 10:00	LPR5O	Crab Trap	591813	717645	591814	717645	15	
9/16/2009 10:03	LPR5O-A8	9/17/2009 11:10	LPR5O	Crab Trap	591813	717645	591814	717645	15	
9/17/2009 11:12	LPR5O-A9	9/18/2009 13:57	LPR5O	Crab Trap	591813	717645	591814	717645	15	
8/17/2009 10:40	LPR5O-B1	8/18/2009 9:36	LPR5O	Crab Trap	591810	717670	591812	717668	12	
9/18/2009 12:00	LPR5O-B10	9/19/2009 8:59	LPR5O	Crab Trap	591810	717670	591812	717668	12	
8/18/2009 9:37	LPR5O-B2	8/19/2009 9:30	LPR5O	Crab Trap	591810	717670	591812	717668	12	
8/19/2009 9:33	LPR5O-B3	8/20/2009 17:07	LPR5O	Crab Trap	591810	717670	591812	717668	12	
8/20/2009 17:07	LPR5O-B4	8/21/2009 13:45	LPR5O	Crab Trap	591810	717670	591812	717668	12	
8/21/2009 13:47	LPR5O-B5	8/22/2009 7:22	LPR5O	Crab Trap	591810	717670	591812	717668	12	
9/14/2009 10:28	LPR5O-B6	9/15/2009 9:49	LPR5O	Crab Trap	591810	717670	591812	717668	12	
9/15/2009 9:51	LPR5O-B7	9/16/2009 10:03	LPR5O	Crab Trap	591810	717670	591812	717668	12	
9/16/2009 10:04	LPR5O-B8	9/17/2009 11:13	LPR5O	Crab Trap	591810	717670	591812	717668	12	
9/17/2009 11:15	LPR5O-B9	9/18/2009 11:59	LPR5O	Crab Trap	591810	717670	591812	717668	12	
8/17/2009 10:42	LPR5O-C1	8/18/2009 9:35	LPR5O	Crab Trap	591809	717693	591810	717693	13	
8/18/2009 9:35	LPR5O-C2	8/19/2009 9:35	LPR5O	Crab Trap	591809	717693	591810	717693	13	
8/19/2009 9:38	LPR5O-C3	8/20/2009 17:06	LPR5O	Crab Trap	591809	717693	591810	717693	13	
8/20/2009 17:06	LPR5O-C4	8/21/2009 13:46	LPR5O	Crab Trap	591809	717693	591810	717693	13	
8/21/2009 13:48	LPR5O-C5	8/22/2009 7:17	LPR5O	Crab Trap	591809	717693	591810	717693	13	
8/17/2009 10:44	LPR5P-A1	8/18/2009 9:39	LPR5P	Eel Trap	591787	717788	591788	717782	12	
8/18/2009 9:40	LPR5P-A2	8/19/2009 9:18	LPR5P	Eel Trap	591787	717788	591788	717782	12	
8/19/2009 9:21	LPR5P-A3	8/20/2009 17:04	LPR5P	Eel Trap	591787	717788	591788	717782	12	
8/20/2009 17:04	LPR5P-A4	8/21/2009 13:59	LPR5P	Eel Trap	591787	717788	591788	717782	12	
8/21/2009 14:00	LPR5P-A5	8/22/2009 7:11	LPR5P	Eel Trap	591787	717788	591788	717782	12	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/17/2009 10:46	LPR5P-B1	8/18/2009 11:19	LPR5P	Eel Trap	591773	717802	591778	717795	8	
8/18/2009 11:20	LPR5P-B2	8/19/2009 14:23	LPR5P	Eel Trap	591773	717802	591778	717795	8	
8/19/2009 14:25	LPR5P-B3	8/20/2009 17:05	LPR5P	Eel Trap	591773	717802	591778	717795	8	
8/20/2009 17:05	LPR5P-B4	8/21/2009 13:55	LPR5P	Eel Trap	591773	717802	591778	717795	8	
8/21/2009 13:56	LPR5P-B5	8/22/2009 7:14	LPR5P	Eel Trap	591773	717802	591778	717795	8	
9/18/2009 10:10	LPR5Q-A1	9/18/2009 22:10	LPR5Q	Boat Electrofishing	592183	717296	592183	717297	4	
9/19/2009 9:35	LPR5Q-A2	9/19/2009 9:35	LPR5Q	Boat Electrofishing	592183	717296	592183	717297	4	
9/18/2009 10:35	LPR5R-A1	9/18/2009 22:35	LPR5R	Boat Electrofishing	592457	716313	592455	716313	3.5	
9/19/2009 10:12	LPR5R-A2	9/19/2009 10:12	LPR5R	Boat Electrofishing	592457	716313	592455	716313	3.5	
9/18/2009 11:15	LPR5S-A1	9/18/2009 23:15	LPR5S	Boat Electrofishing	589701	711829	589702	711831	6	
9/19/2009 11:00	LPR5S-A2	9/19/2009 11:00	LPR5S	Boat Electrofishing	589701	711829	589702	711831	6	
9/18/2009 11:57	LPR5T-A1	9/18/2009 23:57	LPR5T	Boat Electrofishing	589609	709403	589609	709404	5	
9/19/2009 11:33	LPR5T-A2	9/19/2009 11:33	LPR5T	Boat Electrofishing	589609	709403	589609	709404	5	
8/24/2009 15:14	LPR6A-A1	8/25/2009 10:38	LPR6A	Minnow Trap	592575	722247	592574	722245	1.3	
8/25/2009 10:38	LPR6A-A2	8/26/2009 7:06	LPR6A	Minnow Trap	592575	722247	592574	722245	1.3	
8/26/2009 7:06	LPR6A-A3	8/27/2009 6:46	LPR6A	Minnow Trap	592575	722247	592574	722245	1.3	
8/27/2009 6:47	LPR6A-A4	8/28/2009 6:39	LPR6A	Minnow Trap	592575	722247	592574	722245	1.3	
8/28/2009 6:41	LPR6A-A5	8/29/2009 6:41	LPR6A	Minnow Trap	592575	722247	592574	722245	1.3	
8/24/2009 15:17	LPR6A-B1	8/25/2009 10:39	LPR6A	Minnow Trap	592592	722286	592590	722289	1.6	
8/25/2009 10:39	LPR6A-B2	8/26/2009 7:08	LPR6A	Minnow Trap	592592	722286	592590	722289	1.6	
8/26/2009 7:09	LPR6A-B3	8/27/2009 6:48	LPR6A	Minnow Trap	592592	722286	592590	722289	1.6	
8/27/2009 6:48	LPR6A-B4	8/28/2009 6:41	LPR6A	Minnow Trap	592592	722286	592590	722289	1.6	
8/28/2009 6:42	LPR6A-B5	8/29/2009 6:43	LPR6A	Minnow Trap	592592	722286	592590	722289	1.6	
8/24/2009 15:20	LPR6A-C1	8/25/2009 10:40	LPR6A	Minnow Trap	592587	722331	592584	722334	1.5	
8/25/2009 10:41	LPR6A-C2	8/26/2009 7:10	LPR6A	Minnow Trap	592587	722331	592584	722334	1.5	
8/26/2009 7:11	LPR6A-C3	8/27/2009 6:49	LPR6A	Minnow Trap	592587	722331	592584	722334	1.5	
8/27/2009 6:49	LPR6A-C4	8/28/2009 6:42	LPR6A	Minnow Trap	592587	722331	592584	722334	1.5	
8/28/2009 6:43	LPR6A-C5	8/29/2009 6:44	LPR6A	Minnow Trap	592587	722331	592584	722334	1.5	
8/24/2009 15:43	LPR6B-A1	8/25/2009 10:54	LPR6B	Minnow Trap	593360	723280	593358	723268	2.4	
8/25/2009 10:55	LPR6B-A2	8/26/2009 9:38	LPR6B	Minnow Trap	593360	723280	593358	723268	2.4	
8/26/2009 9:39	LPR6B-A3	8/27/2009 7:10	LPR6B	Minnow Trap	593360	723280	593358	723268	2.4	
8/27/2009 7:10	LPR6B-A4	8/28/2009 6:56	LPR6B	Minnow Trap	593360	723280	593358	723268	2.4	
8/28/2009 6:57	LPR6B-A5	8/29/2009 7:00	LPR6B	Minnow Trap	593360	723280	593358	723268	2.4	
8/24/2009 15:45	LPR6B-B1	8/25/2009 7:13	LPR6B	Minnow Trap	593384	723295	593382	723296	3.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/25/2009 7:16	LPR6B-B2	8/26/2009 7:34	LPR6B	Minnow Trap	593384	723295	593382	723296	3.2	
8/26/2009 7:36	LPR6B-B3	8/27/2009 7:09	LPR6B	Minnow Trap	593384	723295	593382	723296	3.2	
8/27/2009 7:11	LPR6B-B4	8/28/2009 6:57	LPR6B	Minnow Trap	593384	723295	593382	723296	3.2	
8/28/2009 6:58	LPR6B-B5	8/29/2009 7:01	LPR6B	Minnow Trap	593384	723295	593382	723296	3.2	
8/24/2009 15:47	LPR6B-C1	8/25/2009 7:17	LPR6B	Minnow Trap	593413	723326	593417	723324	3.9	
8/25/2009 7:18	LPR6B-C2	8/26/2009 7:37	LPR6B	Minnow Trap	593413	723326	593417	723324	3.9	
8/26/2009 7:40	LPR6B-C3	8/27/2009 7:11	LPR6B	Minnow Trap	593413	723326	593417	723324	3.9	
8/27/2009 7:11	LPR6B-C4	8/28/2009 6:59	LPR6B	Minnow Trap	593413	723326	593417	723324	3.9	
8/28/2009 7:00	LPR6B-C5	8/29/2009 7:02	LPR6B	Minnow Trap	593413	723326	593417	723324	3.9	
8/24/2009 16:15	LPR6C-A1	8/25/2009 7:36	LPR6C	Minnow Trap	594231	723828	594226	723825	3.1	
8/25/2009 7:37	LPR6C-A2	8/26/2009 7:58	LPR6C	Minnow Trap	594231	723828	594226	723825	3.1	
8/26/2009 7:59	LPR6C-A3	8/27/2009 7:29	LPR6C	Minnow Trap	594231	723828	594226	723825	3.1	
8/27/2009 7:29	LPR6C-A4	8/28/2009 7:15	LPR6C	Minnow Trap	594231	723828	594226	723825	3.1	
8/28/2009 7:16	LPR6C-A5	8/29/2009 7:19	LPR6C	Minnow Trap	594231	723828	594226	723825	3.1	
8/24/2009 16:17	LPR6C-B1	8/25/2009 7:38	LPR6C	Minnow Trap	594263	723835	594264	723835	3.5	
8/25/2009 7:38	LPR6C-B2	8/26/2009 8:00	LPR6C	Minnow Trap	594263	723835	594264	723835	3.5	
8/26/2009 8:02	LPR6C-B3	8/27/2009 7:30	LPR6C	Minnow Trap	594263	723835	594264	723835	3.5	
8/27/2009 7:30	LPR6C-B4	8/28/2009 7:16	LPR6C	Minnow Trap	594263	723835	594264	723835	3.5	
8/28/2009 7:17	LPR6C-B5	8/29/2009 7:21	LPR6C	Minnow Trap	594263	723835	594264	723835	3.5	
8/24/2009 16:19	LPR6C-C1	8/25/2009 7:40	LPR6C	Minnow Trap	594280	723847	594285	723846	3	
8/25/2009 7:41	LPR6C-C2	8/26/2009 8:03	LPR6C	Minnow Trap	594280	723847	594285	723846	3	
8/26/2009 8:04	LPR6C-C3	8/27/2009 7:31	LPR6C	Minnow Trap	594280	723847	594285	723846	3	
8/27/2009 7:31	LPR6C-C4	8/28/2009 7:18	LPR6C	Minnow Trap	594280	723847	594285	723846	3	
8/28/2009 7:19	LPR6C-C5	8/29/2009 7:22	LPR6C	Minnow Trap	594280	723847	594285	723846	3	
8/24/2009 16:23	LPR6D-A1	8/25/2009 7:45	LPR6D	Minnow Trap	595134	724110	595137	724114	4.1	
8/25/2009 7:45	LPR6D-A2	8/26/2009 8:09	LPR6D	Minnow Trap	595134	724110	595137	724114	4.1	
8/26/2009 8:10	LPR6D-A3	8/27/2009 7:34	LPR6D	Minnow Trap	595134	724110	595137	724114	4.1	
8/27/2009 7:34	LPR6D-A4	8/28/2009 7:21	LPR6D	Minnow Trap	595134	724110	595137	724114	4.1	
8/28/2009 7:22	LPR6D-A5	8/29/2009 7:26	LPR6D	Minnow Trap	595134	724110	595137	724114	4.1	
8/24/2009 16:26	LPR6D-B1	8/25/2009 7:46	LPR6D	Minnow Trap	595152	724116	595155	724116	3.2	
8/25/2009 7:46	LPR6D-B2	8/26/2009 8:13	LPR6D	Minnow Trap	595152	724116	595155	724116	3.2	
8/26/2009 8:15	LPR6D-B3	8/27/2009 7:34	LPR6D	Minnow Trap	595152	724116	595155	724116	3.2	
8/27/2009 7:35	LPR6D-B4	8/28/2009 7:22	LPR6D	Minnow Trap	595152	724116	595155	724116	3.2	
8/28/2009 7:23	LPR6D-B5	8/29/2009 7:28	LPR6D	Minnow Trap	595152	724116	595155	724116	3.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/24/2009 16:29	LPR6D-C1	8/25/2009 7:47	LPR6D	Minnow Trap	595170	724132	595166	724121	4.4	
8/25/2009 7:47	LPR6D-C2	8/26/2009 8:16	LPR6D	Minnow Trap	595170	724132	595166	724121	4.4	
8/26/2009 8:18	LPR6D-C3	8/27/2009 7:35	LPR6D	Minnow Trap	595170	724132	595166	724121	4.4	
8/27/2009 7:35	LPR6D-C4	8/28/2009 7:24	LPR6D	Minnow Trap	595170	724132	595166	724121	4.4	
8/28/2009 7:26	LPR6D-C5	8/29/2009 10:39	LPR6D	Minnow Trap	595170	724132	595166	724121	4.4	
8/24/2009 17:00	LPR6E-A1	8/25/2009 8:09	LPR6E	Minnow Trap	596246	725242	596245	725240	1	
8/25/2009 8:09	LPR6E-A2	8/26/2009 8:36	LPR6E	Minnow Trap	596246	725242	596245	725240	1	
8/26/2009 8:39	LPR6E-A3	8/27/2009 7:52	LPR6E	Minnow Trap	596246	725242	596245	725240	1	
8/27/2009 7:52	LPR6E-A4	8/28/2009 7:41	LPR6E	Minnow Trap	596246	725242	596245	725240	1	
8/28/2009 7:43	LPR6E-A5	8/29/2009 7:44	LPR6E	Minnow Trap	596246	725242	596245	725240	1	
8/24/2009 17:03	LPR6E-B1	8/25/2009 8:11	LPR6E	Minnow Trap	596277	725306	596275	725305	1.3	
8/25/2009 8:11	LPR6E-B2	8/26/2009 8:39	LPR6E	Minnow Trap	596277	725306	596275	725305	1.3	
8/26/2009 8:40	LPR6E-B3	8/27/2009 7:53	LPR6E	Minnow Trap	596277	725306	596275	725305	1.3	
8/27/2009 7:54	LPR6E-B4	8/28/2009 7:43	LPR6E	Minnow Trap	596277	725306	596275	725305	1.3	
8/28/2009 7:44	LPR6E-B5	8/29/2009 7:45	LPR6E	Minnow Trap	596277	725306	596275	725305	1.3	
8/24/2009 17:05	LPR6E-C1	8/25/2009 8:12	LPR6E	Minnow Trap	596303	725351	596306	725349	1.8	
8/25/2009 8:13	LPR6E-C2	8/26/2009 8:41	LPR6E	Minnow Trap	596303	725351	596306	725349	1.8	
8/26/2009 8:42	LPR6E-C3	8/27/2009 7:54	LPR6E	Minnow Trap	596303	725351	596306	725349	1.8	
8/27/2009 7:54	LPR6E-C4	8/28/2009 7:44	LPR6E	Minnow Trap	596303	725351	596306	725349	1.8	
8/28/2009 7:46	LPR6E-C5	8/29/2009 7:46	LPR6E	Minnow Trap	596303	725351	596306	725349	1.8	
8/24/2009 15:24	LPR6F-A1	8/25/2009 10:42	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
9/18/2009 12:10	LPR6F-A10	9/19/2009 8:48	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
8/25/2009 10:44	LPR6F-A2	8/26/2009 7:12	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
8/26/2009 7:17	LPR6F-A3	8/27/2009 6:50	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
8/27/2009 6:55	LPR6F-A4	8/28/2009 6:43	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
8/28/2009 6:44	LPR6F-A5	8/29/2009 6:45	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
9/14/2009 10:37	LPR6F-A6	9/15/2009 9:58	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
9/15/2009 10:00	LPR6F-A7	9/16/2009 10:08	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
9/16/2009 10:09	LPR6F-A8	9/17/2009 11:27	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
9/17/2009 11:30	LPR6F-A9	9/18/2009 12:06	LPR6F	Crab Trap	592577	722364	592579	722367	2.2	
8/24/2009 15:26	LPR6F-B1	8/25/2009 10:45	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
9/18/2009 12:12	LPR6F-B10	9/19/2009 8:45	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
8/25/2009 10:46	LPR6F-B2	8/26/2009 7:17	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
8/26/2009 7:21	LPR6F-B3	8/27/2009 6:56	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/27/2009 6:59	LPR6F-B4	8/28/2009 6:45	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
8/28/2009 6:46	LPR6F-B5	8/29/2009 6:47	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
9/14/2009 10:38	LPR6F-B6	9/15/2009 10:00	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
9/15/2009 10:05	LPR6F-B7	9/16/2009 10:10	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
9/16/2009 10:11	LPR6F-B8	9/17/2009 11:32	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
9/17/2009 11:33	LPR6F-B9	9/18/2009 12:10	LPR6F	Crab Trap	592583	722402	592587	722410	1.7	
8/24/2009 15:29	LPR6F-C1	8/25/2009 10:47	LPR6F	Crab Trap	592590	722437	592594	722454	2.1	
8/25/2009 10:48	LPR6F-C2	8/26/2009 7:21	LPR6F	Crab Trap	592590	722437	592594	722454	2.1	
8/26/2009 7:23	LPR6F-C3	8/27/2009 7:00	LPR6F	Crab Trap	592590	722437	592594	722454	2.1	
8/27/2009 7:03	LPR6F-C4	8/28/2009 6:47	LPR6F	Crab Trap	592590	722437	592594	722454	2.1	
8/28/2009 6:48	LPR6F-C5	8/29/2009 6:49	LPR6F	Crab Trap	592590	722437	592594	722454	2.1	
8/24/2009 15:55	LPR6G-A1	8/25/2009 7:19	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
9/18/2009 12:22	LPR6G-A10	9/19/2009 12:12	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
8/25/2009 7:20	LPR6G-A2	8/26/2009 7:41	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
8/26/2009 7:42	LPR6G-A3	8/27/2009 7:13	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
8/27/2009 7:16	LPR6G-A4	8/28/2009 7:01	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
8/28/2009 7:04	LPR6G-A5	8/29/2009 7:04	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
9/14/2009 10:44	LPR6G-A6	9/15/2009 10:13	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
9/15/2009 10:17	LPR6G-A7	9/16/2009 10:17	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
9/16/2009 10:18	LPR6G-A8	9/17/2009 11:38	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
9/17/2009 11:40	LPR6G-A9	9/18/2009 12:19	LPR6G	Crab Trap	593238	723575	593235	723579	3.3	
8/24/2009 15:57	LPR6G-B1	8/25/2009 7:21	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
9/18/2009 12:18	LPR6G-B10	9/19/2009 12:15	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
8/25/2009 7:25	LPR6G-B2	8/26/2009 7:46	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
8/26/2009 7:48	LPR6G-B3	8/27/2009 7:22	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
8/27/2009 7:23	LPR6G-B4	8/28/2009 7:07	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
8/28/2009 7:08	LPR6G-B5	8/29/2009 7:10	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
9/14/2009 10:45	LPR6G-B6	9/15/2009 10:09	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
9/15/2009 10:12	LPR6G-B7	9/16/2009 10:15	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
9/16/2009 10:17	LPR6G-B8	9/17/2009 11:36	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
9/17/2009 11:38	LPR6G-B9	9/18/2009 12:16	LPR6G	Crab Trap	593255	723583	593267	723582	3.6	
8/24/2009 16:02	LPR6G-C1	8/25/2009 7:26	LPR6G	Crab Trap	593268	723566	593262	723569	6.6	
8/25/2009 7:27	LPR6G-C2	8/26/2009 7:43	LPR6G	Crab Trap	593268	723566	593262	723569	6.6	
8/26/2009 7:45	LPR6G-C3	8/27/2009 7:17	LPR6G	Crab Trap	593268	723566	593262	723569	6.6	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/27/2009 7:21	LPR6G-C4	8/28/2009 7:04	LPR6G	Crab Trap	593268	723566	593262	723569	6.6	
8/28/2009 7:06	LPR6G-C5	8/29/2009 7:08	LPR6G	Crab Trap	593268	723566	593262	723569	6.6	
8/24/2009 16:32	LPR6H-A1	8/25/2009 7:49	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
9/18/2009 12:29	LPR6H-A10	9/19/2009 14:37	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
8/25/2009 7:51	LPR6H-A2	8/26/2009 8:19	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
8/26/2009 8:21	LPR6H-A3	8/27/2009 7:36	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
8/27/2009 7:39	LPR6H-A4	8/28/2009 7:27	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
8/28/2009 7:30	LPR6H-A5	8/29/2009 7:30	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
9/14/2009 10:52	LPR6H-A6	9/15/2009 10:24	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
9/15/2009 10:25	LPR6H-A7	9/16/2009 10:25	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
9/16/2009 10:27	LPR6H-A8	9/17/2009 11:51	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
9/17/2009 11:53	LPR6H-A9	9/18/2009 12:27	LPR6H	Crab Trap	595224	724126	595232	724124	11.8	
8/24/2009 16:34	LPR6H-B1	8/25/2009 7:52	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
9/18/2009 12:26	LPR6H-B10	9/19/2009 14:43	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
8/25/2009 7:53	LPR6H-B2	8/26/2009 8:21	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
8/26/2009 8:23	LPR6H-B3	8/27/2009 7:39	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
8/27/2009 19:41	LPR6H-B4	8/28/2009 7:31	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
8/28/2009 19:32	LPR6H-B5	8/29/2009 7:32	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
9/14/2009 10:49	LPR6H-B6	9/15/2009 10:22	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
9/15/2009 10:23	LPR6H-B7	9/16/2009 10:22	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
9/16/2009 10:24	LPR6H-B8	9/17/2009 11:49	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
9/17/2009 11:51	LPR6H-B9	9/18/2009 12:24	LPR6H	Crab Trap	595284	724162	595283	724160	9.3	
8/24/2009 15:32	LPR6I-A1	8/25/2009 10:49	LPR6I	Crayfish Trap	592603	722509	592606	722494	1.8	
8/25/2009 10:49	LPR6I-A2	8/26/2009 7:24	LPR6I	Crayfish Trap	592603	722509	592606	722494	1.8	
8/26/2009 7:26	LPR6I-A3	8/27/2009 7:04	LPR6I	Crayfish Trap	592603	722509	592606	722494	1.8	
8/27/2009 7:04	LPR6I-A4	8/28/2009 6:48	LPR6I	Crayfish Trap	592603	722509	592606	722494	1.8	
8/28/2009 6:50	LPR6I-A5	8/29/2009 6:51	LPR6I	Crayfish Trap	592603	722509	592606	722494	1.8	
8/24/2009 15:34	LPR6I-B1	8/25/2009 10:50	LPR6I	Crayfish Trap	592591	722528	592600	722532	2.4	
8/25/2009 10:51	LPR6I-B2	8/26/2009 7:27	LPR6I	Crayfish Trap	592591	722528	592600	722532	2.4	
8/26/2009 7:28	LPR6I-B3	8/27/2009 7:05	LPR6I	Crayfish Trap	592591	722528	592600	722532	2.4	
8/27/2009 7:06	LPR6I-B4	8/28/2009 6:51	LPR6I	Crayfish Trap	592591	722528	592600	722532	2.4	
8/28/2009 6:52	LPR6I-B5	8/29/2009 6:53	LPR6I	Crayfish Trap	592591	722528	592600	722532	2.4	
8/24/2009 15:37	LPR6I-C1	8/25/2009 10:52	LPR6I	Crayfish Trap	592626	722567	592621	722547	2.1	
8/25/2009 10:52	LPR6I-C2	8/26/2009 7:29	LPR6I	Crayfish Trap	592626	722567	592621	722547	2.1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/26/2009 7:30	LPR6I-C3	8/27/2009 7:07	LPR6I	Crayfish Trap	592626	722567	592621	722547	2.1	
8/27/2009 7:07	LPR6I-C4	8/28/2009 6:52	LPR6I	Crayfish Trap	592626	722567	592621	722547	2.1	
8/28/2009 6:53	LPR6I-C5	8/29/2009 6:54	LPR6I	Crayfish Trap	592626	722567	592621	722547	2.1	
8/24/2009 16:06	LPR6J-A1	8/25/2009 7:28	LPR6J	Crayfish Trap	593318	723609	593319	723608	2.4	
8/25/2009 7:29	LPR6J-A2	8/26/2009 7:49	LPR6J	Crayfish Trap	593318	723609	593319	723608	2.4	
8/26/2009 7:51	LPR6J-A3	8/27/2009 7:24	LPR6J	Crayfish Trap	593318	723609	593319	723608	2.4	
8/27/2009 7:24	LPR6J-A4	8/28/2009 7:08	LPR6J	Crayfish Trap	593318	723609	593319	723608	2.4	
8/28/2009 7:10	LPR6J-A5	8/29/2009 7:12	LPR6J	Crayfish Trap	593318	723609	593319	723608	2.4	
8/24/2009 16:08	LPR6J-B1	8/25/2009 7:30	LPR6J	Crayfish Trap	593373	723601	593367	723603	5.6	
8/25/2009 7:31	LPR6J-B2	8/26/2009 7:53	LPR6J	Crayfish Trap	593373	723601	593367	723603	5.6	
8/26/2009 7:54	LPR6J-B3	8/27/2009 7:25	LPR6J	Crayfish Trap	593373	723601	593367	723603	5.6	
8/27/2009 7:26	LPR6J-B4	8/28/2009 7:10	LPR6J	Crayfish Trap	593373	723601	593367	723603	5.6	
8/28/2009 7:11	LPR6J-B5	8/29/2009 7:14	LPR6J	Crayfish Trap	593373	723601	593367	723603	5.6	
8/24/2009 16:11	LPR6J-C1	8/25/2009 7:31	LPR6J	Crayfish Trap	593400	723632	593402	723629	4	
8/25/2009 7:32	LPR6J-C2	8/26/2009 7:55	LPR6J	Crayfish Trap	593400	723632	593402	723629	4	
8/26/2009 7:56	LPR6J-C3	8/27/2009 7:26	LPR6J	Crayfish Trap	593400	723632	593402	723629	4	
8/27/2009 7:26	LPR6J-C4	8/28/2009 7:11	LPR6J	Crayfish Trap	593400	723632	593402	723629	4	
8/28/2009 7:13	LPR6J-C5	8/29/2009 7:15	LPR6J	Crayfish Trap	593400	723632	593402	723629	4	
8/24/2009 16:48	LPR6K-A1	8/25/2009 7:55	LPR6K	Crayfish Trap	595453	724225	595459	724229	3	
8/25/2009 7:56	LPR6K-A2	8/26/2009 8:25	LPR6K	Crayfish Trap	595453	724225	595459	724229	3	
8/26/2009 8:28	LPR6K-A3	8/27/2009 7:43	LPR6K	Crayfish Trap	595453	724225	595459	724229	3	
8/27/2009 7:43	LPR6K-A4	8/28/2009 7:34	LPR6K	Crayfish Trap	595453	724225	595459	724229	3	
8/28/2009 7:35	LPR6K-A5	8/29/2009 7:36	LPR6K	Crayfish Trap	595453	724225	595459	724229	3	
8/24/2009 16:51	LPR6K-B1	8/25/2009 7:57	LPR6K	Crayfish Trap	595482	724230	595486	724238	3	
8/25/2009 7:57	LPR6K-B2	8/26/2009 8:29	LPR6K	Crayfish Trap	595482	724230	595486	724238	3	
8/26/2009 8:31	LPR6K-B3	8/27/2009 7:44	LPR6K	Crayfish Trap	595482	724230	595486	724238	3	
8/27/2009 7:47	LPR6K-B4	8/28/2009 7:36	LPR6K	Crayfish Trap	595482	724230	595486	724238	3	
8/28/2009 7:37	LPR6K-B5	8/29/2009 7:35	LPR6K	Crayfish Trap	595482	724230	595486	724238	3	
8/24/2009 16:55	LPR6K-C1	8/25/2009 7:58	LPR6K	Crayfish Trap	595498	724255	595500	724251	3	
8/25/2009 7:59	LPR6K-C2	8/26/2009 8:32	LPR6K	Crayfish Trap	595498	724255	595500	724251	3	
8/26/2009 8:33	LPR6K-C3	8/27/2009 7:47	LPR6K	Crayfish Trap	595498	724255	595500	724251	3	
8/27/2009 7:49	LPR6K-C4	8/28/2009 7:38	LPR6K	Crayfish Trap	595498	724255	595500	724251	3	
8/28/2009 7:39	LPR6K-C5	8/29/2009 7:39	LPR6K	Crayfish Trap	595498	724255	595500	724251	3	
8/24/2009 10:47	LPR6L-A1	8/25/2009 9:54	LPR6L	Gillnet	596205	724679	596201	724678	18	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/25/2009 10:12	LPR6L-A2	8/26/2009 9:04	LPR6L	Gillnet	596205	724679	596201	724678	18	
8/26/2009 9:16	LPR6L-A3	8/27/2009 8:24	LPR6L	Gillnet	596205	724679	596201	724678	18	
8/27/2009 8:35	LPR6L-A4	8/28/2009 8:25	LPR6L	Gillnet	596205	724679	596201	724678	18	
8/28/2009 8:35	LPR6L-A5	8/29/2009 8:10	LPR6L	Gillnet	596205	724679	596201	724678	18	
8/24/2009 11:23	LPR6M-A1	8/25/2009 8:43	LPR6M	Gillnet	594077	723748	594051	723740	14	
8/25/2009 9:00	LPR6M-A2	8/26/2009 8:29	LPR6M	Gillnet	594077	723748	594051	723740	14	
8/26/2009 8:37	LPR6M-A3	8/27/2009 7:52	LPR6M	Gillnet	594077	723748	594051	723740	14	
8/27/2009 8:06	LPR6M-A4	8/28/2009 7:50	LPR6M	Gillnet	594077	723748	594051	723740	14	
8/28/2009 7:59	LPR6M-A5	8/29/2009 7:48	LPR6M	Gillnet	594077	723748	594051	723740	14	
8/24/2009 11:37	LPR6N-A1	8/25/2009 7:30	LPR6N	Gillnet	592323	722250	592325	722258	18.5	
8/25/2009 7:45	LPR6N-A2	8/26/2009 7:38	LPR6N	Gillnet	592323	722250	592325	722258	18.5	
8/26/2009 7:51	LPR6N-A3	8/27/2009 7:06	LPR6N	Gillnet	592323	722250	592325	722258	18.5	
8/27/2009 7:19	LPR6N-A4	8/28/2009 7:07	LPR6N	Gillnet	592323	722250	592325	722258	18.5	
8/28/2009 7:07	LPR6N-A5	8/29/2009 7:10	LPR6N	Gillnet	592323	722250	592325	722258	18.5	
8/24/2009 10:17	LPR6O-A1	8/25/2009 10:25	LPR6O	Trotline	596692	725981	596688	725981	16	
8/25/2009 10:28	LPR6O-A2	8/26/2009 9:29	LPR6O	Trotline	596692	725981	596688	725981	16	
8/26/2009 9:31	LPR6O-A3	8/27/2009 8:51	LPR6O	Trotline	596692	725981	596688	725981	16	
8/27/2009 8:53	LPR6O-A4	8/28/2009 8:53	LPR6O	Trotline	596692	725981	596688	725981	16	
8/28/2009 8:56	LPR6O-A5	8/29/2009 8:27	LPR6O	Trotline	596692	725981	596688	725981	16	
8/24/2009 10:26	LPR6O-B1	8/25/2009 10:29	LPR6O	Trotline	596676	725961	596678	725967	18	
8/25/2009 10:32	LPR6O-B2	8/26/2009 9:26	LPR6O	Trotline	596676	725961	596678	725967	18	
8/26/2009 9:28	LPR6O-B3	8/27/2009 8:47	LPR6O	Trotline	596676	725961	596678	725967	18	
8/27/2009 8:50	LPR6O-B4	8/28/2009 8:50	LPR6O	Trotline	596676	725961	596678	725967	18	
8/28/2009 8:52	LPR6O-B5	8/29/2009 11:17	LPR6O	Trotline	596676	725961	596678	725967	18	
8/24/2009 10:33	LPR6O-C1	8/25/2009 10:18	LPR6O	Trotline	596679	725906	596678	725904	11	
8/25/2009 10:22	LPR6O-C2	8/26/2009 9:21	LPR6O	Trotline	596679	725906	596678	725904	11	
8/26/2009 9:25	LPR6O-C3	8/27/2009 8:41	LPR6O	Trotline	596679	725906	596678	725904	11	
8/27/2009 8:45	LPR6O-C4	8/28/2009 8:44	LPR6O	Trotline	596679	725906	596678	725904	11	
8/28/2009 8:50	LPR6O-C5	8/29/2009 11:14	LPR6O	Trotline	596679	725906	596678	725904	11	
8/24/2009 10:56	LPR6P-A1	8/25/2009 9:25	LPR6P	Trotline	595768	724222	595771	724220	20	
8/25/2009 9:28	LPR6P-A2	8/26/2009 8:44	LPR6P	Trotline	595768	724222	595771	724220	20	
8/26/2009 8:48	LPR6P-A3	8/27/2009 8:13	LPR6P	Trotline	595768	724222	595771	724220	20	
8/27/2009 8:16	LPR6P-A4	8/28/2009 8:05	LPR6P	Trotline	595768	724222	595771	724220	20	
8/28/2009 8:15	LPR6P-A5	8/29/2009 11:11	LPR6P	Trotline	595768	724222	595771	724220	20	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/24/2009 11:05	LPR6P-B1	8/25/2009 9:36	LPR6P	Trotline	595832	724277	595841	724267	20	
8/25/2009 9:39	LPR6P-B2	8/26/2009 8:50	LPR6P	Trotline	595832	724277	595841	724267	20	
8/26/2009 8:53	LPR6P-B3	8/27/2009 8:17	LPR6P	Trotline	595832	724277	595841	724267	20	
8/27/2009 8:19	LPR6P-B4	8/28/2009 8:16	LPR6P	Trotline	595832	724277	595841	724267	20	
8/28/2009 8:19	LPR6P-B5	8/29/2009 11:04	LPR6P	Trotline	595832	724277	595841	724267	20	
8/24/2009 11:13	LPR6P-C1	8/25/2009 9:40	LPR6P	Trotline	595896	724319	595891	724319	20	
8/25/2009 9:45	LPR6P-C2	8/26/2009 8:54	LPR6P	Trotline	595896	724319	595891	724319	20	
8/26/2009 8:58	LPR6P-C3	8/27/2009 8:21	LPR6P	Trotline	595896	724319	595891	724319	20	
8/27/2009 8:23	LPR6P-C4	8/28/2009 8:39	LPR6P	Trotline	595896	724319	595891	724319	20	
8/28/2009 8:41	LPR6P-C5	8/29/2009 11:01	LPR6P	Trotline	595896	724319	595891	724319	20	
8/24/2009 11:47	LPR6Q-A1	8/25/2009 7:13	LPR6Q	Trotline	592185	721872	592194	721861	10	
8/25/2009 7:15	LPR6Q-A2	8/26/2009 7:11	LPR6Q	Trotline	592185	721872	592194	721861	10	
8/26/2009 7:14	LPR6Q-A3	8/27/2009 6:52	LPR6Q	Trotline	592185	721872	592194	721861	10	
8/27/2009 6:55	LPR6Q-A4	8/28/2009 6:52	LPR6Q	Trotline	592185	721872	592194	721861	10	
8/28/2009 6:54	LPR6Q-A5	8/29/2009 6:50	LPR6Q	Trotline	592185	721872	592194	721861	10	
8/24/2009 11:55	LPR6Q-B1	8/25/2009 7:17	LPR6Q	Trotline	592212	721933	592201	721923	10	
8/25/2009 7:22	LPR6Q-B2	8/26/2009 7:28	LPR6Q	Trotline	592212	721933	592201	721923	10	
8/26/2009 7:34	LPR6Q-B3	8/27/2009 6:56	LPR6Q	Trotline	592212	721933	592201	721923	10	
8/27/2009 6:59	LPR6Q-B4	8/28/2009 6:55	LPR6Q	Trotline	592212	721933	592201	721923	10	
8/28/2009 7:00	LPR6Q-B5	8/29/2009 7:00	LPR6Q	Trotline	592212	721933	592201	721923	10	
8/24/2009 12:03	LPR6Q-C1	8/25/2009 7:23	LPR6Q	Trotline	592238	721996	592245	721981	13	
8/25/2009 7:27	LPR6Q-C2	8/26/2009 7:20	LPR6Q	Trotline	592238	721996	592245	721981	13	
8/26/2009 7:22	LPR6Q-C3	8/27/2009 7:01	LPR6Q	Trotline	592238	721996	592245	721981	13	
8/27/2009 7:03	LPR6Q-C4	8/28/2009 7:02	LPR6Q	Trotline	592238	721996	592245	721981	13	
8/28/2009 7:04	LPR6Q-C5	8/29/2009 7:02	LPR6Q	Trotline	592238	721996	592245	721981	13	
8/24/2009 15:28	LPR6R-A1	8/25/2009 8:20	LPR6R	Trotline	593787	723476	593804	723468	5	
8/25/2009 8:25	LPR6R-A2	8/26/2009 8:11	LPR6R	Trotline	593787	723476	593804	723468	5	
8/26/2009 8:14	LPR6R-A3	8/27/2009 7:40	LPR6R	Trotline	593787	723476	593804	723468	5	
8/27/2009 7:43	LPR6R-A4	8/28/2009 7:37	LPR6R	Trotline	593787	723476	593804	723468	5	
8/28/2009 7:41	LPR6R-A5	8/29/2009 10:45	LPR6R	Trotline	593787	723476	593804	723468	5	
8/24/2009 15:33	LPR6R-B1	8/25/2009 8:25	LPR6R	Trotline	593841	723482	593857	723476	6.5	
8/25/2009 8:30	LPR6R-B2	8/26/2009 8:15	LPR6R	Trotline	593841	723482	593857	723476	6.5	
8/26/2009 8:17	LPR6R-B3	8/27/2009 7:44	LPR6R	Trotline	593841	723482	593857	723476	6.5	
8/27/2009 7:47	LPR6R-B4	8/28/2009 7:42	LPR6R	Trotline	593841	723482	593857	723476	6.5	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/28/2009 7:44	LPR6R-B5	8/29/2009 10:56	LPR6R	Trotline	593841	723482	593857	723476	6.5	
8/24/2009 15:36	LPR6R-C1	8/25/2009 8:31	LPR6R	Trotline	593911	723492	593899	723497	6.5	
8/25/2009 8:35	LPR6R-C2	8/26/2009 8:18	LPR6R	Trotline	593911	723492	593899	723497	6.5	
8/26/2009 8:21	LPR6R-C3	8/27/2009 7:48	LPR6R	Trotline	593911	723492	593899	723497	6.5	
8/27/2009 7:51	LPR6R-C4	8/28/2009 7:45	LPR6R	Trotline	593911	723492	593899	723497	6.5	
8/28/2009 7:48	LPR6R-C5	8/29/2009 10:49	LPR6R	Trotline	593911	723492	593899	723497	6.5	
8/24/2009 15:45	LPR6S-A1	8/25/2009 7:55	LPR6S	Trotline	592462	722861	592481	722901	14	
8/25/2009 8:00	LPR6S-A2	8/26/2009 7:55	LPR6S	Trotline	592462	722861	592481	722901	14	
8/26/2009 7:59	LPR6S-A3	8/27/2009 7:23	LPR6S	Trotline	592462	722861	592481	722901	14	
8/27/2009 7:26	LPR6S-A4	8/28/2009 7:24	LPR6S	Trotline	592462	722861	592481	722901	14	
8/28/2009 7:29	LPR6S-A5	9/5/2009 15:45	LPR6S	Trotline	592462	722861	592481	722901	14	Gear lost, retrieved
8/24/2009 15:49	LPR6S-B1	8/25/2009 8:05	LPR6S	Trotline	592477	722893	592495	722923	15	
8/25/2009 8:10	LPR6S-B2	8/26/2009 8:00	LPR6S	Trotline	592477	722893	592495	722923	15	
8/26/2009 8:03	LPR6S-B3	8/27/2009 7:27	LPR6S	Trotline	592477	722893	592495	722923	15	
8/27/2009 7:31	LPR6S-B4	8/28/2009 7:20	LPR6S	Trotline	592477	722893	592495	722923	15	
8/28/2009 7:23	LPR6S-B5	9/5/2009 15:45	LPR6S	Trotline	592477	722893	592495	722923	15	Gear lost, retrieved
8/24/2009 16:04	LPR6S-C1	8/25/2009 8:10	LPR6S	Trotline	592492	722928	592503	722956	15	
8/25/2009 8:15	LPR6S-C2	8/26/2009 8:04	LPR6S	Trotline	592492	722928	592503	722956	15	
8/26/2009 8:06	LPR6S-C3	8/27/2009 7:33	LPR6S	Trotline	592492	722928	592503	722956	15	
8/27/2009 7:35	LPR6S-C4	8/28/2009 7:31	LPR6S	Trotline	592492	722928	592503	722956	15	
8/28/2009 7:34	LPR6S-C5	9/5/2009 15:45	LPR6S	Trotline	592492	722928	592503	722956	15	Gear lost, retrieved
8/27/2009 14:05	LPR6T-A1	8/27/2009 14:05	LPR6T	Boat Electrofishing	596299	724721	596292	724721	7.7	
8/27/2009 14:36	LPR6U-A1	8/27/2009 14:36	LPR6U	Boat Electrofishing	592521	721948	592517	721948	3.4	
8/27/2009 14:54	LPR6V-A1	8/27/2009 14:54	LPR6V	Boat Electrofishing	592462	721576	592459	721585	3.5	
8/24/2009 10:06	LPR7A-A1	8/25/2009 8:56	LPR7A	Minnow Trap	596639	729882	596648	728976	4.5	
8/25/2009 8:57	LPR7A-A2	8/26/2009 9:09	LPR7A	Minnow Trap	596639	729882	596648	728976	4.5	
8/26/2009 9:10	LPR7A-A3	8/27/2009 8:14	LPR7A	Minnow Trap	596639	729882	596648	728976	4.5	
8/27/2009 8:14	LPR7A-A4	8/28/2009 8:06	LPR7A	Minnow Trap	596639	729882	596648	728976	4.5	
8/28/2009 8:07	LPR7A-A5	8/29/2009 8:09	LPR7A	Minnow Trap	596639	729882	596648	728976	4.5	
8/24/2009 10:08	LPR7A-B1	8/25/2009 8:52	LPR7A	Minnow Trap	596686	728969	596696	728972	4.8	
8/25/2009 8:54	LPR7A-B2	8/26/2009 9:07	LPR7A	Minnow Trap	596686	728969	596696	728972	4.8	
8/26/2009 9:09	LPR7A-B3	8/27/2009 8:13	LPR7A	Minnow Trap	596686	728969	596696	728972	4.8	
8/27/2009 8:13	LPR7A-B4	8/28/2009 8:05	LPR7A	Minnow Trap	596686	728969	596696	728972	4.8	
8/28/2009 8:06	LPR7A-B5	8/29/2009 8:08	LPR7A	Minnow Trap	596686	728969	596696	728972	4.8	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/24/2009 10:10	LPR7A-C1	8/25/2009 8:47	LPR7A	Minnow Trap	596763	728956	596769	728955	5.4	
8/25/2009 8:47	LPR7A-C2	8/26/2009 9:05	LPR7A	Minnow Trap	596763	728956	596769	728955	5.4	
8/26/2009 9:06	LPR7A-C3	8/27/2009 8:11	LPR7A	Minnow Trap	596763	728956	596769	728955	5.4	
8/27/2009 8:12	LPR7A-C4	8/28/2009 8:03	LPR7A	Minnow Trap	596763	728956	596769	728955	5.4	
8/28/2009 8:05	LPR7A-C5	8/29/2009 8:07	LPR7A	Minnow Trap	596763	728956	596769	728955	5.4	
8/24/2009 9:57	LPR7B-A1	8/25/2009 9:01	LPR7B	Minnow Trap	596743	729259	596750	729258	1.6	
8/25/2009 9:01	LPR7B-A2	8/26/2009 9:12	LPR7B	Minnow Trap	596743	729259	596750	729258	1.6	
8/26/2009 9:13	LPR7B-A3	8/27/2009 8:15	LPR7B	Minnow Trap	596743	729259	596750	729258	1.6	
8/27/2009 8:15	LPR7B-A4	8/28/2009 8:08	LPR7B	Minnow Trap	596743	729259	596750	729258	1.6	
8/28/2009 8:10	LPR7B-A5	8/29/2009 8:13	LPR7B	Minnow Trap	596743	729259	596750	729258	1.6	
8/24/2009 9:59	LPR7B-B1	8/25/2009 9:02	LPR7B	Minnow Trap	596723	729279	596736	729280	2.3	
8/25/2009 9:02	LPR7B-B2	8/26/2009 9:14	LPR7B	Minnow Trap	596723	729279	596736	729280	2.3	
8/26/2009 9:15	LPR7B-B3	8/27/2009 8:17	LPR7B	Minnow Trap	596723	729279	596736	729280	2.3	
8/27/2009 8:17	LPR7B-B4	8/28/2009 8:11	LPR7B	Minnow Trap	596723	729279	596736	729280	2.3	
8/28/2009 8:13	LPR7B-B5	8/29/2009 8:15	LPR7B	Minnow Trap	596723	729279	596736	729280	2.3	
8/24/2009 10:02	LPR7B-C1	8/25/2009 9:03	LPR7B	Minnow Trap	596666	729297	596669	729299	3.1	
8/25/2009 9:03	LPR7B-C2	8/26/2009 9:16	LPR7B	Minnow Trap	596666	729297	596669	729299	3.1	
8/26/2009 9:17	LPR7B-C3	8/27/2009 8:18	LPR7B	Minnow Trap	596666	729297	596669	729299	3.1	
8/27/2009 8:18	LPR7B-C4	8/28/2009 8:14	LPR7B	Minnow Trap	596666	729297	596669	729299	3.1	
8/28/2009 8:14	LPR7B-C5	9/5/2009 15:37	LPR7B	Minnow Trap	596666	729297	596669	729299	3.1	Trap lost, retrieved
8/24/2009 9:33	LPR7C-A1	8/25/2009 9:10	LPR7C	Minnow Trap	596689	733034	596686	733029	9.3	
8/25/2009 9:10	LPR7C-A2	8/26/2009 9:24	LPR7C	Minnow Trap	596689	733034	596686	733029	9.3	
8/26/2009 9:26	LPR7C-A3	8/27/2009 8:24	LPR7C	Minnow Trap	596689	733034	596686	733029	9.3	
8/27/2009 8:25	LPR7C-A4	8/28/2009 8:20	LPR7C	Minnow Trap	596689	733034	596686	733029	9.3	
8/28/2009 8:21	LPR7C-A5	9/5/2009 15:42	LPR7C	Minnow Trap	596689	733034	596686	733029	9.3	Trap lost, retrieved
8/24/2009 9:35	LPR7C-B1	8/25/2009 9:11	LPR7C	Minnow Trap	596690	733061	596697	733065	7.8	
8/25/2009 9:11	LPR7C-B2	8/26/2009 9:27	LPR7C	Minnow Trap	596690	733061	596697	733065	7.8	
8/26/2009 9:28	LPR7C-B3	8/27/2009 8:26	LPR7C	Minnow Trap	596690	733061	596697	733065	7.8	
8/27/2009 8:28	LPR7C-B4	8/28/2009 8:21	LPR7C	Minnow Trap	596690	733061	596697	733065	7.8	
8/28/2009 8:23	LPR7C-B5	8/29/2009 8:24	LPR7C	Minnow Trap	596690	733061	596697	733065	7.8	
8/24/2009 9:37	LPR7C-C1	8/25/2009 9:12	LPR7C	Minnow Trap	596699	733073	596695	733082	5.2	
8/25/2009 9:12	LPR7C-C2	8/26/2009 9:29	LPR7C	Minnow Trap	596699	733073	596695	733082	5.2	
8/26/2009 9:30	LPR7C-C3	8/27/2009 8:29	LPR7C	Minnow Trap	596699	733073	596695	733082	5.2	
8/27/2009 10:15	LPR7C-C4	8/28/2009 8:23	LPR7C	Minnow Trap	596699	733073	596695	733082	5.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/28/2009 8:23	LPR7C-C5	8/29/2009 11:06	LPR7C	Minnow Trap	596699	733073	596695	733082	5.2	
8/24/2009 8:06	LPR7D-A1	8/25/2009 9:18	LPR7D	Minnow Trap	597462	734894	597447	734889	3	
8/25/2009 9:19	LPR7D-A2	8/26/2009 11:45	LPR7D	Minnow Trap	597462	734894	597447	734889	3	
8/26/2009 11:47	LPR7D-A3	8/27/2009 8:37	LPR7D	Minnow Trap	597462	734894	597447	734889	3	
8/27/2009 8:38	LPR7D-A4	8/28/2009 8:29	LPR7D	Minnow Trap	597462	734894	597447	734889	3	
8/28/2009 8:30	LPR7D-A5	8/29/2009 8:41	LPR7D	Minnow Trap	597462	734894	597447	734889	3	
8/24/2009 8:09	LPR7D-B1	8/25/2009 9:18	LPR7D	Minnow Trap	597434	734876	597441	734864	3.8	
8/25/2009 9:18	LPR7D-B2	8/26/2009 11:49	LPR7D	Minnow Trap	597434	734876	597441	734864	3.8	
8/26/2009 11:50	LPR7D-B3	8/27/2009 8:36	LPR7D	Minnow Trap	597434	734876	597441	734864	3.8	
8/27/2009 8:36	LPR7D-B4	8/28/2009 8:28	LPR7D	Minnow Trap	597434	734876	597441	734864	3.8	
8/28/2009 8:28	LPR7D-B5	8/29/2009 8:38	LPR7D	Minnow Trap	597434	734876	597441	734864	3.8	
8/24/2009 8:12	LPR7D-C1	8/25/2009 9:17	LPR7D	Minnow Trap	597459	734833	597449	734831	1.2	
8/25/2009 9:17	LPR7D-C2	8/26/2009 11:50	LPR7D	Minnow Trap	597459	734833	597449	734831	1.2	
8/26/2009 11:52	LPR7D-C3	8/27/2009 8:34	LPR7D	Minnow Trap	597459	734833	597449	734831	1.2	
8/27/2009 8:36	LPR7D-C4	8/28/2009 8:27	LPR7D	Minnow Trap	597459	734833	597449	734831	1.2	
8/28/2009 8:28	LPR7D-C5	8/29/2009 8:40	LPR7D	Minnow Trap	597459	734833	597449	734831	1.2	
8/24/2009 8:45	LPR7E-A1	8/25/2009 9:48	LPR7E	Minnow Trap	597316	735639	597316	735371	5.7	
8/25/2009 9:49	LPR7E-A2	8/26/2009 11:20	LPR7E	Minnow Trap	597316	735639	597316	735371	5.7	
8/26/2009 11:21	LPR7E-A3	8/27/2009 9:13	LPR7E	Minnow Trap	597316	735639	597316	735371	5.7	
8/27/2009 9:13	LPR7E-A4	8/28/2009 9:01	LPR7E	Minnow Trap	597316	735639	597316	735371	5.7	
8/28/2009 9:02	LPR7E-A5	8/29/2009 8:48	LPR7E	Minnow Trap	597316	735639	597316	735371	5.7	
8/24/2009 8:48	LPR7E-B1	8/25/2009 9:47	LPR7E	Minnow Trap	597310	735340	597309	735339	3.8	
8/25/2009 9:47	LPR7E-B2	8/26/2009 11:18	LPR7E	Minnow Trap	597310	735340	597309	735339	3.8	
8/26/2009 11:19	LPR7E-B3	8/27/2009 9:11	LPR7E	Minnow Trap	597310	735340	597309	735339	3.8	
8/27/2009 9:11	LPR7E-B4	8/28/2009 9:00	LPR7E	Minnow Trap	597310	735340	597309	735339	3.8	
8/28/2009 9:01	LPR7E-B5	8/29/2009 11:35	LPR7E	Minnow Trap	597310	735340	597309	735339	3.8	
8/24/2009 8:51	LPR7E-C1	8/25/2009 9:46	LPR7E	Minnow Trap	597308	735338	597308	735334	3.5	
8/25/2009 9:46	LPR7E-C2	8/26/2009 11:16	LPR7E	Minnow Trap	597308	735338	597308	735334	3.5	
8/26/2009 11:17	LPR7E-C3	8/27/2009 9:10	LPR7E	Minnow Trap	597308	735338	597308	735334	3.5	
8/27/2009 9:10	LPR7E-C4	8/28/2009 8:59	LPR7E	Minnow Trap	597308	735338	597308	735334	3.5	
8/28/2009 8:59	LPR7E-C5	8/29/2009 8:47	LPR7E	Minnow Trap	597308	735338	597308	735334	3.5	
8/24/2009 8:18	LPR7F-A1	8/25/2009 9:19	LPR7F	Crab Trap	597450	734973	597445	734965	11.3	
8/25/2009 9:19	LPR7F-A2	8/26/2009 11:44	LPR7F	Crab Trap	597450	734973	597445	734965	11.3	
8/26/2009 11:45	LPR7F-A3	8/27/2009 8:38	LPR7F	Crab Trap	597450	734973	597445	734965	11.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/27/2009 8:43	LPR7F-A4	8/28/2009 8:32	LPR7F	Crab Trap	597450	734973	597445	734965	11.3	
8/28/2009 8:35	LPR7F-A5	8/29/2009 11:18	LPR7F	Crab Trap	597450	734973	597445	734965	11.3	
8/24/2009 8:19	LPR7F-B1	n/a	LPR7F	Crab Trap	597455	734982	597453	734999	12.6	Trap lost
n/a	LPR7F-B2	n/a	LPR7F	Crab Trap	597455	734982	597453	734999	12.6	unable to retrieve
n/a	LPR7F-B3	8/27/2009 8:44	LPR7F	Crab Trap	597455	734982	597453	734999	12.6	Lost trap recovered
8/27/2009 8:45	LPR7F-B4	8/28/2009 8:36	LPR7F	Crab Trap	597455	734982	597453	734999	12.6	
8/28/2009 8:37	LPR7F-B5	8/29/2009 11:16	LPR7F	Crab Trap	597455	734982	597453	734999	12.6	
8/24/2009 8:21	LPR7F-C1	8/25/2009 9:24	LPR7F	Crab Trap	597449	735018	597452	735017	12.6	
8/25/2009 9:30	LPR7F-C2	8/26/2009 11:38	LPR7F	Crab Trap	597449	735018	597452	735017	12.6	
8/26/2009 11:41	LPR7F-C3	8/27/2009 8:46	LPR7F	Crab Trap	597449	735018	597452	735017	12.6	
8/27/2009 8:47	LPR7F-C4	8/28/2009 8:40	LPR7F	Crab Trap	597449	735018	597452	735017	12.6	
8/28/2009 8:41	LPR7F-C5	8/29/2009 11:20	LPR7F	Crab Trap	597449	735018	597452	735017	12.6	
8/24/2009 8:53	LPR7G-A1	8/25/2009 9:42	LPR7G	Crab Trap	597338	735292	597342	735289	12.1	
8/25/2009 9:45	LPR7G-A2	8/26/2009 11:14	LPR7G	Crab Trap	597338	735292	597342	735289	12.1	
8/26/2009 11:15	LPR7G-A3	8/27/2009 9:05	LPR7G	Crab Trap	597338	735292	597342	735289	12.1	
8/27/2009 9:07	LPR7G-A4	8/28/2009 8:55	LPR7G	Crab Trap	597338	735292	597342	735289	12.1	
8/28/2009 8:58	LPR7G-A5	8/29/2009 11:27	LPR7G	Crab Trap	597338	735292	597342	735289	12.1	
8/24/2009 8:55	LPR7G-B1	8/25/2009 9:39	LPR7G	Crab Trap	597346	735272	597342	735269	11.8	
8/25/2009 9:40	LPR7G-B2	8/26/2009 11:11	LPR7G	Crab Trap	597346	735272	597342	735269	11.8	
8/26/2009 11:13	LPR7G-B3	8/27/2009 8:59	LPR7G	Crab Trap	597346	735272	597342	735269	11.8	
8/27/2009 9:01	LPR7G-B4	8/28/2009 8:53	LPR7G	Crab Trap	597346	735272	597342	735269	11.8	
8/28/2009 8:54	LPR7G-B5	8/29/2009 9:00	LPR7G	Crab Trap	597346	735272	597342	735269	11.8	
8/24/2009 8:57	LPR7G-C1	8/25/2009 9:35	LPR7G	Crab Trap	597333	735246	597339	735250	11.9	
8/25/2009 9:38	LPR7G-C2	8/26/2009 10:47	LPR7G	Crab Trap	597333	735246	597339	735250	11.9	
8/26/2009 10:50	LPR7G-C3	8/27/2009 8:55	LPR7G	Crab Trap	597333	735246	597339	735250	11.9	
8/27/2009 8:57	LPR7G-C4	8/28/2009 8:50	LPR7G	Crab Trap	597333	735246	597339	735250	11.9	
8/28/2009 8:52	LPR7G-C5	8/29/2009 11:28	LPR7G	Crab Trap	597333	735246	597339	735250	11.9	
8/24/2009 10:15	LPR7H-A1	8/25/2009 8:42	LPR7H	Crab Trap	596712	728848	596716	728849	6	
8/25/2009 8:44	LPR7H-A2	8/26/2009 9:01	LPR7H	Crab Trap	596712	728848	596716	728849	6	
8/26/2009 9:04	LPR7H-A3	8/27/2009 8:08	LPR7H	Crab Trap	596712	728848	596716	728849	6	
8/27/2009 8:10	LPR7H-A4	8/28/2009 8:01	LPR7H	Crab Trap	596712	728848	596716	728849	6	
8/28/2009 8:02	LPR7H-A5	8/29/2009 8:04	LPR7H	Crab Trap	596712	728848	596716	728849	6	
8/24/2009 10:16	LPR7H-B1	8/25/2009 8:37	LPR7H	Crab Trap	596777	728836	596780	728831	6.2	
8/25/2009 8:38	LPR7H-B2	8/26/2009 8:58	LPR7H	Crab Trap	596777	728836	596780	728831	6.2	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/26/2009 9:01	LPR7H-B3	8/27/2009 8:05	LPR7H	Crab Trap	596777	728836	596780	728831	6.2	
8/27/2009 8:07	LPR7H-B4	8/28/2009 7:59	LPR7H	Crab Trap	596777	728836	596780	728831	6.2	
8/28/2009 8:01	LPR7H-B5	8/29/2009 8:01	LPR7H	Crab Trap	596777	728836	596780	728831	6.2	
8/24/2009 10:17	LPR7H-C1	8/25/2009 8:34	LPR7H	Crab Trap	596737	728809	596737	728804	5.1	
8/25/2009 8:35	LPR7H-C2	8/26/2009 8:57	LPR7H	Crab Trap	596737	728809	596737	728804	5.1	
8/26/2009 8:57	LPR7H-C3	8/27/2009 8:03	LPR7H	Crab Trap	596737	728809	596737	728804	5.1	
8/27/2009 8:04	LPR7H-C4	8/28/2009 7:57	LPR7H	Crab Trap	596737	728809	596737	728804	5.1	
8/28/2009 7:58	LPR7H-C5	8/29/2009 8:00	LPR7H	Crab Trap	596737	728809	596737	728804	5.1	
8/24/2009 8:34	LPR7I-A1	8/25/2009 9:31	LPR7I	Crayfish Trap	597474	735065	597472	735056	12.7	
8/25/2009 9:31	LPR7I-A2	8/26/2009 11:34	LPR7I	Crayfish Trap	597474	735065	597472	735056	12.7	
8/26/2009 11:37	LPR7I-A3	8/27/2009 8:49	LPR7I	Crayfish Trap	597474	735065	597472	735056	12.7	
8/27/2009 8:50	LPR7I-A4	8/28/2009 8:41	LPR7I	Crayfish Trap	597474	735065	597472	735056	12.7	
8/28/2009 8:43	LPR7I-A5	8/29/2009 23:23	LPR7I	Crayfish Trap	597474	735065	597472	735056	12.7	
8/24/2009 8:36	LPR7I-B1	8/25/2009 9:32	LPR7I	Crayfish Trap	597484	735089	597479	735092	8.7	
8/25/2009 9:32	LPR7I-B2	8/26/2009 11:32	LPR7I	Crayfish Trap	597484	735089	597479	735092	8.7	
8/26/2009 11:32	LPR7I-B3	8/27/2009 8:51	LPR7I	Crayfish Trap	597484	735089	597479	735092	8.7	
8/27/2009 8:51	LPR7I-B4	8/28/2009 8:44	LPR7I	Crayfish Trap	597484	735089	597479	735092	8.7	
8/28/2009 8:45	LPR7I-B5	8/29/2009 11:40	LPR7I	Crayfish Trap	597484	735089	597479	735092	8.7	
8/24/2009 8:38	LPR7I-C1	8/25/2009 9:33	LPR7I	Crayfish Trap	597487	735105	597496	735115	5.1	
8/25/2009 9:33	LPR7I-C2	8/26/2009 11:30	LPR7I	Crayfish Trap	597487	735105	597496	735115	5.1	
8/26/2009 11:31	LPR7I-C3	8/27/2009 8:51	LPR7I	Crayfish Trap	597487	735105	597496	735115	5.1	
8/27/2009 8:53	LPR7I-C4	8/28/2009 8:46	LPR7I	Crayfish Trap	597487	735105	597496	735115	5.1	
8/28/2009 8:48	LPR7I-C5	8/29/2009 11:21	LPR7I	Crayfish Trap	597487	735105	597496	735115	5.1	
8/24/2009 9:08	LPR7J-A1	8/25/2009 9:50	LPR7J	Crayfish Trap	597337	735425	597333	735420	12.8	
8/25/2009 9:50	LPR7J-A2	8/26/2009 11:22	LPR7J	Crayfish Trap	597337	735425	597333	735420	12.8	
8/26/2009 11:23	LPR7J-A3	8/27/2009 9:13	LPR7J	Crayfish Trap	597337	735425	597333	735420	12.8	
8/27/2009 9:14	LPR7J-A4	8/28/2009 9:03	LPR7J	Crayfish Trap	597337	735425	597333	735420	12.8	
8/28/2009 9:04	LPR7J-A5	8/29/2009 8:52	LPR7J	Crayfish Trap	597337	735425	597333	735420	12.8	
8/24/2009 9:09	LPR7J-B1	8/25/2009 9:51	LPR7J	Crayfish Trap	597341	735452	597335	735453	14.4	
8/25/2009 9:51	LPR7J-B2	8/26/2009 11:24	LPR7J	Crayfish Trap	597341	735452	597335	735453	14.4	
8/26/2009 11:25	LPR7J-B3	8/27/2009 9:14	LPR7J	Crayfish Trap	597341	735452	597335	735453	14.4	
8/27/2009 9:14	LPR7J-B4	8/28/2009 9:05	LPR7J	Crayfish Trap	597341	735452	597335	735453	14.4	
8/28/2009 9:06	LPR7J-B5	8/29/2009 8:50	LPR7J	Crayfish Trap	597341	735452	597335	735453	14.4	
8/24/2009 9:16	LPR7J-C1	8/25/2009 9:52	LPR7J	Crayfish Trap	597337	735476	597338	735473	14.5	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/25/2009 9:52	LPR7J-C2	8/26/2009 11:26	LPR7J	Crayfish Trap	597337	735476	597338	735473	14.5	
8/26/2009 11:28	LPR7J-C3	8/27/2009 9:15	LPR7J	Crayfish Trap	597337	735476	597338	735473	14.5	
8/27/2009 9:15	LPR7J-C4	8/28/2009 9:06	LPR7J	Crayfish Trap	597337	735476	597338	735473	14.5	
8/28/2009 9:08	LPR7J-C5	9/5/2009 15:45	LPR7J	Crayfish Trap	597337	735476	597338	735473	14.5	Trap lost, retrieved
8/24/2009 10:21	LPR7K-A1	8/25/2009 8:30	LPR7K	Crayfish Trap	596727	728805	596730	728805	4.6	
8/25/2009 8:30	LPR7K-A2	8/26/2009 8:54	LPR7K	Crayfish Trap	596727	728805	596730	728805	4.6	
8/26/2009 8:56	LPR7K-A3	8/27/2009 8:02	LPR7K	Crayfish Trap	596727	728805	596730	728805	4.6	
8/27/2009 8:03	LPR7K-A4	8/28/2009 7:55	LPR7K	Crayfish Trap	596727	728805	596730	728805	4.6	
8/28/2009 7:57	LPR7K-A5	8/29/2009 7:57	LPR7K	Crayfish Trap	596727	728805	596730	728805	4.6	
8/24/2009 10:23	LPR7K-B1	8/25/2009 8:25	LPR7K	Crayfish Trap	596766	728780	596760	728776	5.3	
8/25/2009 8:26	LPR7K-B2	8/26/2009 8:52	LPR7K	Crayfish Trap	596766	728780	596760	728776	5.3	
8/26/2009 8:54	LPR7K-B3	8/27/2009 8:01	LPR7K	Crayfish Trap	596766	728780	596760	728776	5.3	
8/27/2009 8:01	LPR7K-B4	8/28/2009 7:54	LPR7K	Crayfish Trap	596766	728780	596760	728776	5.3	
8/28/2009 7:55	LPR7K-B5	8/29/2009 7:54	LPR7K	Crayfish Trap	596766	728780	596760	728776	5.3	
8/24/2009 10:25	LPR7K-C1	8/25/2009 8:20	LPR7K	Crayfish Trap	596763	728717	596772	728710	3.8	
8/25/2009 8:20	LPR7K-C2	8/26/2009 8:50	LPR7K	Crayfish Trap	596763	728717	596772	728710	3.8	
8/26/2009 8:51	LPR7K-C3	8/27/2009 8:00	LPR7K	Crayfish Trap	596763	728717	596772	728710	3.8	
8/27/2009 8:00	LPR7K-C4	8/28/2009 7:51	LPR7K	Crayfish Trap	596763	728717	596772	728710	3.8	
8/28/2009 7:53	LPR7K-C5	8/29/2009 7:55	LPR7K	Crayfish Trap	596763	728717	596772	728710	3.8	
8/24/2009 8:06	LPR7L-A1	8/25/2009 11:33	LPR7L	Gillnet	597476	735460	597481	735489	8	
8/25/2009 11:40	LPR7L-A2	8/26/2009 10:18	LPR7L	Gillnet	597476	735460	597481	735489	8	
8/26/2009 10:28	LPR7L-A3	8/27/2009 10:24	LPR7L	Gillnet	597476	735460	597481	735489	8	
8/27/2009 10:42	LPR7L-A4	8/28/2009 9:32	LPR7L	Gillnet	597476	735460	597481	735489	8	
8/28/2009 9:48	LPR7L-A5	8/29/2009 8:59	LPR7L	Gillnet	597476	735460	597481	735489	8	
8/24/2009 9:58	LPR7M-A1	8/25/2009 10:41	LPR7M	Gillnet	596943	728480	596952	728472	18	
8/25/2009 10:50	LPR7M-A2	8/26/2009 9:36	LPR7M	Gillnet	596943	728480	596952	728472	18	
8/26/2009 9:44	LPR7M-A3	8/27/2009 9:01	LPR7M	Gillnet	596943	728480	596952	728472	18	
8/27/2009 9:20	LPR7M-A4	8/28/2009 9:00	LPR7M	Gillnet	596943	728480	596952	728472	18	
8/28/2009 9:05	LPR7M-A5	8/29/2009 8:33	LPR7M	Gillnet	596943	728480	596952	728472	18	
8/24/2009 8:22	LPR7N-A1	8/25/2009 11:56	LPR7N	Trotline	597326	735071	597320	735075	12	
8/25/2009 12:05	LPR7N-A2	8/26/2009 10:35	LPR7N	Trotline	597326	735071	597320	735075	12	
8/26/2009 10:36	LPR7N-A3	8/27/2009 10:51	LPR7N	Trotline	597326	735071	597320	735075	12	
8/27/2009 10:53	LPR7N-A4	8/28/2009 9:58	LPR7N	Trotline	597326	735071	597320	735075	12	
8/28/2009 10:01	LPR7N-A5	8/29/2009 12:06	LPR7N	Trotline	597326	735071	597320	735075	12	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/24/2009 8:24	LPR7N-B1	8/25/2009 12:02	LPR7N	Trotline	597335	735028	597329	735030	12	
8/25/2009 12:05	LPR7N-B2	8/26/2009 10:37	LPR7N	Trotline	597335	735028	597329	735030	12	
8/26/2009 10:39	LPR7N-B3	8/27/2009 10:46	LPR7N	Trotline	597335	735028	597329	735030	12	
8/27/2009 10:48	LPR7N-B4	8/28/2009 10:02	LPR7N	Trotline	597335	735028	597329	735030	12	
8/28/2009 10:05	LPR7N-B5	8/29/2009 12:14	LPR7N	Trotline	597335	735028	597329	735030	12	
8/24/2009 8:17	LPR7N-C1	8/25/2009 11:52	LPR7N	Trotline	597344	735155	597348	735158	12	
8/25/2009 12:00	LPR7N-C2	8/26/2009 10:31	LPR7N	Trotline	597344	735155	597348	735158	12	
8/26/2009 10:34	LPR7N-C3	8/27/2009 10:54	LPR7N	Trotline	597344	735155	597348	735158	12	
8/27/2009 10:58	LPR7N-C4	8/28/2009 9:54	LPR7N	Trotline	597344	735155	597348	735158	12	
8/28/2009 9:57	LPR7N-C5	8/29/2009 12:12	LPR7N	Trotline	597344	735155	597348	735158	12	
8/24/2009 8:40	LPR7O-A1	8/25/2009 12:07	LPR7O	Trotline	596943	733353	596946	733355	10	
8/25/2009 12:10	LPR7O-A2	8/26/2009 10:54	LPR7O	Trotline	596943	733353	596946	733355	10	
8/26/2009 10:56	LPR7O-A3	8/27/2009 11:08	LPR7O	Trotline	596943	733353	596946	733355	10	
8/27/2009 11:11	LPR7O-A4	8/28/2009 10:22	LPR7O	Trotline	596943	733353	596946	733355	10	
8/28/2009 10:25	LPR7O-A5	8/29/2009 11:56	LPR7O	Trotline	596943	733353	596946	733355	10	
8/24/2009 8:44	LPR7O-B1	8/25/2009 12:12	LPR7O	Trotline	596962	733449	596958	733440	10	
8/25/2009 12:15	LPR7O-B2	8/26/2009 10:51	LPR7O	Trotline	596962	733449	596958	733440	10	
8/26/2009 10:53	LPR7O-B3	8/27/2009 11:05	LPR7O	Trotline	596962	733449	596958	733440	10	
8/27/2009 11:07	LPR7O-B4	8/28/2009 10:18	LPR7O	Trotline	596962	733449	596958	733440	10	
8/28/2009 10:21	LPR7O-B5	8/29/2009 11:58	LPR7O	Trotline	596962	733449	596958	733440	10	
8/24/2009 8:49	LPR7O-C1	8/25/2009 12:15	LPR7O	Trotline	596974	733530	596980	733527	10.5	
8/25/2009 12:18	LPR7O-C2	8/26/2009 10:47	LPR7O	Trotline	596974	733530	596980	733527	10.5	
8/26/2009 10:49	LPR7O-C3	8/27/2009 11:02	LPR7O	Trotline	596974	733530	596980	733527	10.5	
8/27/2009 11:04	LPR7O-C4	8/28/2009 10:11	LPR7O	Trotline	596974	733530	596980	733527	10.5	
8/28/2009 10:13	LPR7O-C5	8/29/2009 12:01	LPR7O	Trotline	596974	733530	596980	733527	10.5	
8/24/2009 9:07	LPR7P-A1	8/25/2009 11:18	LPR7P	Trotline	596233	731439	596241	731434	4	
8/25/2009 11:20	LPR7P-A2	8/26/2009 10:04	LPR7P	Trotline	596233	731439	596241	731434	4	
8/26/2009 10:07	LPR7P-A3	8/27/2009 9:40	LPR7P	Trotline	596233	731439	596241	731434	4	
8/27/2009 9:44	LPR7P-A4	8/28/2009 10:35	LPR7P	Trotline	596233	731439	596241	731434	4	
8/28/2009 10:37	LPR7P-A5	8/29/2009 11:51	LPR7P	Trotline	596233	731439	596241	731434	4	
8/24/2009 9:13	LPR7P-B1	8/25/2009 11:21	LPR7P	Trotline	596278	731500	596286	731502	11	
8/25/2009 11:24	LPR7P-B2	8/26/2009 10:07	LPR7P	Trotline	596278	731500	596286	731502	11	
8/26/2009 10:09	LPR7P-B3	8/27/2009 9:45	LPR7P	Trotline	596278	731500	596286	731502	11	
8/27/2009 9:47	LPR7P-B4	8/28/2009 10:31	LPR7P	Trotline	596278	731500	596286	731502	11	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
8/28/2009 10:34	LPR7P-B5	8/29/2009 11:44	LPR7P	Trotline	596278	731500	596286	731502	11	
8/24/2009 9:19	LPR7P-C1	8/25/2009 11:25	LPR7P	Trotline	596314	731581	596325	731594	7.5	
8/25/2009 11:28	LPR7P-C2	8/26/2009 10:10	LPR7P	Trotline	596314	731581	596325	731594	7.5	
8/26/2009 10:12	LPR7P-C3	8/27/2009 9:48	LPR7P	Trotline	596314	731581	596325	731594	7.5	
8/27/2009 9:52	LPR7P-C4	8/28/2009 10:27	LPR7P	Trotline	596314	731581	596325	731594	7.5	
8/28/2009 10:30	LPR7P-C5	8/29/2009 11:46	LPR7P	Trotline	596314	731581	596325	731594	7.5	
8/24/2009 9:34	LPR7Q-A1	8/25/2009 10:59	LPR7Q	Trotline	596588	729119	596587	729111	9	
8/25/2009 11:03	LPR7Q-A2	8/26/2009 9:50	LPR7Q	Trotline	596588	729119	596587	729111	9	
8/26/2009 9:54	LPR7Q-A3	8/27/2009 9:25	LPR7Q	Trotline	596588	729119	596587	729111	9	
8/27/2009 9:28	LPR7Q-A4	8/28/2009 9:06	LPR7Q	Trotline	596588	729119	596587	729111	9	
8/28/2009 9:09	LPR7Q-A5	8/29/2009 11:32	LPR7Q	Trotline	596588	729119	596587	729111	9	
8/24/2009 9:41	LPR7Q-B1	8/25/2009 11:04	LPR7Q	Trotline	596543	729137	596542	729142	4	
8/25/2009 11:07	LPR7Q-B2	8/26/2009 9:55	LPR7Q	Trotline	596543	729137	596542	729142	4	
8/26/2009 9:57	LPR7Q-B3	8/27/2009 9:29	LPR7Q	Trotline	596543	729137	596542	729142	4	
8/27/2009 9:33	LPR7Q-B4	8/28/2009 9:10	LPR7Q	Trotline	596543	729137	596542	729142	4	
8/28/2009 9:13	LPR7Q-B5	9/5/2009 15:59	LPR7Q	Trotline	596543	729137	596542	729142	4	Gear lost, retrieved
8/24/2009 9:50	LPR7Q-C1	8/25/2009 11:09	LPR7Q	Trotline	596535	729215	596531	729221	8	
8/25/2009 11:11	LPR7Q-C2	8/26/2009 9:59	LPR7Q	Trotline	596535	729215	596531	729221	8	
8/26/2009 10:01	LPR7Q-C3	8/27/2009 9:34	LPR7Q	Trotline	596535	729215	596531	729221	8	
8/27/2009 9:37	LPR7Q-C4	8/28/2009 9:14	LPR7Q	Trotline	596535	729215	596531	729221	8	
8/28/2009 9:17	LPR7Q-C5	8/29/2009 11:21	LPR7Q	Trotline	596535	729215	596531	729221	8	
8/27/2009 12:22	LPR7R-A1	8/27/2009 12:22	LPR7R	Boat Electrofishing	597134	734601	597139	734602	6.9	
8/27/2009 12:55	LPR7S-A1	8/27/2009 12:55	LPR7S	Boat Electrofishing	597286	734378	597276	734389	13.6	
8/27/2009 13:15	LPR7T-A1	8/27/2009 13:15	LPR7T	Boat Electrofishing	596542	731562	596535	731560	7.6	
8/27/2009 13:35	LPR7U-A1	8/27/2009 13:35	LPR7U	Boat Electrofishing	596933	728919	596913	728915	3.7	
9/7/2009 9:17	LPR8A-A1	9/8/2009 9:35	LPR8A	Minnow Trap	597563	737849	597559	737849	3	
9/8/2009 9:36	LPR8A-A2	9/9/2009 9:12	LPR8A	Minnow Trap	597563	737849	597559	737849	3	
9/9/2009 9:13	LPR8A-A3	9/10/2009 11:53	LPR8A	Minnow Trap	597563	737849	597559	737849	3	
9/10/2009 11:54	LPR8A-A4	9/12/2009 7:56	LPR8A	Minnow Trap	597563	737849	597559	737849	3	
9/7/2009 9:18	LPR8A-B1	9/8/2009 9:36	LPR8A	Minnow Trap	597567	737830	597565	737830	2.9	
9/8/2009 9:38	LPR8A-B2	9/9/2009 9:10	LPR8A	Minnow Trap	597567	737830	597565	737830	2.9	
9/9/2009 9:11	LPR8A-B3	9/10/2009 11:52	LPR8A	Minnow Trap	597567	737830	597565	737830	2.9	
9/10/2009 11:52	LPR8A-B4	9/12/2009 7:54	LPR8A	Minnow Trap	597567	737830	597565	737830	2.9	
9/7/2009 9:19	LPR8A-C1	9/8/2009 9:38	LPR8A	Minnow Trap	597563	737807	597558	737808	1.1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/8/2009 9:38	LPR8A-C2	9/9/2009 9:08	LPR8A	Minnow Trap	597563	737807	597558	737808	1.1	
9/9/2009 9:10	LPR8A-C3	9/10/2009 11:51	LPR8A	Minnow Trap	597563	737807	597558	737808	1.1	
9/10/2009 11:51	LPR8A-C4	9/12/2009 7:52	LPR8A	Minnow Trap	597563	737807	597558	737808	1.1	
9/7/2009 8:32	LPR8D-A1	9/8/2009 9:01	LPR8D	Minnow Trap	599158	741718	599182	741745	2.5	
9/8/2009 9:02	LPR8D-A2	9/9/2009 10:03	LPR8D	Minnow Trap	599158	741718	599182	741745	2.5	
9/9/2009 10:05	LPR8D-A3	9/10/2009 10:47	LPR8D	Minnow Trap	599158	741718	599182	741745	2.5	
9/10/2009 10:47	LPR8D-A4	9/12/2009 8:30	LPR8D	Minnow Trap	599158	741718	599182	741745	2.5	
9/7/2009 8:35	LPR8D-B1	9/8/2009 9:00	LPR8D	Minnow Trap	599140	741698	599161	741735	2.8	
9/8/2009 9:01	LPR8D-B2	9/9/2009 10:01	LPR8D	Minnow Trap	599140	741698	599161	741735	2.8	
9/9/2009 10:03	LPR8D-B3	9/10/2009 10:46	LPR8D	Minnow Trap	599140	741698	599161	741735	2.8	
9/10/2009 10:46	LPR8D-B4	9/12/2009 8:29	LPR8D	Minnow Trap	599140	741698	599161	741735	2.8	
9/7/2009 8:38	LPR8D-C1	9/8/2009 8:59	LPR8D	Minnow Trap	599137	741733	599151	741744	3.1	
9/8/2009 9:00	LPR8D-C2	9/9/2009 9:58	LPR8D	Minnow Trap	599137	741733	599151	741744	3.1	
9/9/2009 10:00	LPR8D-C3	9/10/2009 10:45	LPR8D	Minnow Trap	599137	741733	599151	741744	3.1	
9/10/2009 10:45	LPR8D-C4	9/12/2009 8:27	LPR8D	Minnow Trap	599137	741733	599151	741744	3.1	
9/7/2009 11:34	LPR8E-A1	9/8/2009 10:58	LPR8E	Minnow Trap	597850	744591	597851	744592	1	
9/8/2009 10:59	LPR8E-A2	9/9/2009 13:45	LPR8E	Minnow Trap	597850	744591	597851	744592	1	
9/9/2009 13:47	LPR8E-A3	n/a	LPR8E	Minnow Trap	597850	744591	597851	744592	1	Trap lost
9/7/2009 11:37	LPR8E-B1	9/8/2009 10:59	LPR8E	Minnow Trap	597839	744603	597840	744603	0.9	
9/8/2009 10:59	LPR8E-B2	9/9/2009 13:44	LPR8E	Minnow Trap	597839	744603	597840	744603	0.9	
9/9/2009 13:46	LPR8E-B3	n/a	LPR8E	Minnow Trap	597839	744603	597840	744603	0.9	Trap lost
9/7/2009 11:40	LPR8E-C1	9/8/2009 10:59	LPR8E	Minnow Trap	597823	744621	597825	744622	0.9	
9/8/2009 11:00	LPR8E-C2	9/9/2009 13:43	LPR8E	Minnow Trap	597823	744621	597825	744622	0.9	
9/9/2009 13:44	LPR8E-C3	n/a	LPR8E	Minnow Trap	597823	744621	597825	744622	0.9	Trap lost
9/7/2009 13:01	LPR8F-A1	9/8/2009 11:41	LPR8F	Minnow Trap	596913	745765	596908	745770	1	
9/8/2009 11:43	LPR8F-A2	9/9/2009 13:17	LPR8F	Minnow Trap	596913	745765	596908	745770	1	
9/9/2009 13:18	LPR8F-A3	9/10/2009 11:25	LPR8F	Minnow Trap	596913	745765	596908	745770	1	
9/10/2009 11:25	LPR8F-A4	9/11/2009 7:55	LPR8F	Minnow Trap	596913	745765	596908	745770	1	
9/11/2009 7:57	LPR8F-A5	9/12/2009 10:10	LPR8F	Minnow Trap	596913	745765	596908	745770	1	
9/7/2009 13:03	LPR8F-B1	9/8/2009 11:45	LPR8F	Minnow Trap	596921	745755	596950	745766	1	
9/8/2009 11:46	LPR8F-B2	9/9/2009 13:18	LPR8F	Minnow Trap	596921	745755	596950	745766	1	
9/9/2009 13:19	LPR8F-B3	9/10/2009 11:26	LPR8F	Minnow Trap	596921	745755	596950	745766	1	
9/10/2009 11:26	LPR8F-B4	9/11/2009 7:54	LPR8F	Minnow Trap	596921	745755	596950	745766	1	
9/11/2009 7:56	LPR8F-B5	9/12/2009 10:11	LPR8F	Minnow Trap	596921	745755	596950	745766	1	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/7/2009 13:06	LPR8F-C1	9/8/2009 11:47	LPR8F	Minnow Trap	596932	745749	596933	745747	0.9	
9/8/2009 11:47	LPR8F-C2	9/9/2009 13:20	LPR8F	Minnow Trap	596932	745749	596933	745747	0.9	
9/9/2009 13:21	LPR8F-C3	9/10/2009 11:27	LPR8F	Minnow Trap	596932	745749	596933	745747	0.9	
9/10/2009 11:27	LPR8F-C4	9/11/2009 7:56	LPR8F	Minnow Trap	596932	745749	596933	745747	0.9	
9/11/2009 7:58	LPR8F-C5	9/12/2009 10:12	LPR8F	Minnow Trap	596932	745749	596933	745747	0.9	
9/7/2009 8:45	LPR8G-A1	9/8/2009 8:45	LPR8G	Crayfish Trap	599044	741810	599045	741812	2.7	
9/8/2009 8:47	LPR8G-A2	9/9/2009 9:44	LPR8G	Crayfish Trap	599044	741810	599045	741812	2.7	
9/9/2009 9:45	LPR8G-A3	9/10/2009 10:20	LPR8G	Crayfish Trap	599044	741810	599045	741812	2.7	
9/10/2009 10:20	LPR8G-A4	9/12/2009 8:31	LPR8G	Crayfish Trap	599044	741810	599045	741812	2.7	
9/7/2009 8:46	LPR8G-B1	9/8/2009 8:47	LPR8G	Crayfish Trap	599030	741832	599034	741833	2.7	
9/8/2009 8:48	LPR8G-B2	9/9/2009 9:41	LPR8G	Crayfish Trap	599030	741832	599034	741833	2.7	
9/9/2009 9:43	LPR8G-B3	9/10/2009 10:16	LPR8G	Crayfish Trap	599030	741832	599034	741833	2.7	
9/10/2009 10:17	LPR8G-B4	9/12/2009 8:33	LPR8G	Crayfish Trap	599030	741832	599034	741833	2.7	
9/7/2009 8:47	LPR8G-C1	9/8/2009 8:49	LPR8G	Crayfish Trap	599010	741547	599016	741848	2.8	
9/8/2009 8:50	LPR8G-C2	9/9/2009 9:38	LPR8G	Crayfish Trap	599010	741547	599016	741848	2.8	
9/9/2009 9:40	LPR8G-C3	9/10/2009 10:15	LPR8G	Crayfish Trap	599010	741547	599016	741848	2.8	
9/10/2009 10:16	LPR8G-C4	9/12/2009 8:38	LPR8G	Crayfish Trap	599010	741547	599016	741848	2.8	
9/7/2009 9:21	LPR8H-A1	9/8/2009 9:38	LPR8H	Crayfish Trap	597531	737794	597535	737793	3.1	
9/8/2009 9:42	LPR8H-A2	9/9/2009 9:02	LPR8H	Crayfish Trap	597531	737794	597535	737793	3.1	
9/9/2009 9:05	LPR8H-A3	9/10/2009 11:49	LPR8H	Crayfish Trap	597531	737794	597535	737793	3.1	
9/10/2009 11:49	LPR8H-A4	9/12/2009 7:47	LPR8H	Crayfish Trap	597531	737794	597535	737793	3.1	
9/7/2009 9:22	LPR8H-B1	9/8/2009 9:47	LPR8H	Crayfish Trap	597539	737785	597536	737784	3.1	
9/8/2009 9:48	LPR8H-B2	9/9/2009 9:06	LPR8H	Crayfish Trap	597539	737785	597536	737784	3.1	
9/9/2009 9:08	LPR8H-B3	9/10/2009 11:50	LPR8H	Crayfish Trap	597539	737785	597536	737784	3.1	
9/10/2009 11:50	LPR8H-B4	9/12/2009 7:49	LPR8H	Crayfish Trap	597539	737785	597536	737784	3.1	
9/7/2009 9:25	LPR8H-C1	9/8/2009 9:48	LPR8H	Crayfish Trap	597535	737759	597524	737762	3.4	
9/8/2009 9:49	LPR8H-C2	9/9/2009 9:00	LPR8H	Crayfish Trap	597535	737759	597524	737762	3.4	
9/9/2009 9:01	LPR8H-C3	9/10/2009 11:48	LPR8H	Crayfish Trap	597535	737759	597524	737762	3.4	
9/10/2009 11:48	LPR8H-C4	9/12/2009 7:45	LPR8H	Crayfish Trap	597535	737759	597524	737762	3.4	
9/7/2009 11:42	LPR8I-A1	9/8/2009 11:01	LPR8I	Crayfish Trap	597821	744571	597822	744571	1.3	
9/8/2009 11:02	LPR8I-A2	9/9/2009 13:41	LPR8I	Crayfish Trap	597821	744571	597822	744571	1.3	
9/9/2009 13:42	LPR8I-A3	9/10/2009 11:43	LPR8I	Crayfish Trap	597821	744571	597822	744571	1.3	
9/10/2009 11:43	LPR8I-A4	9/11/2009 8:22	LPR8I	Crayfish Trap	597821	744571	597822	744571	1.3	
9/11/2009 8:25	LPR8I-A5	9/12/2009 10:45	LPR8I	Crayfish Trap	597821	744571	597822	744571	1.3	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/7/2009 11:45	LPR8I-B1	9/8/2009 11:01	LPR8I	Crayfish Trap	597809	744582	597810	744583	1.2	
9/8/2009 11:01	LPR8I-B2	9/9/2009 13:42	LPR8I	Crayfish Trap	597809	744582	597810	744583	1.2	
9/9/2009 13:43	LPR8I-B3	9/10/2009 11:41	LPR8I	Crayfish Trap	597809	744582	597810	744583	1.2	
9/10/2009 11:41	LPR8I-B4	9/11/2009 8:21	LPR8I	Crayfish Trap	597809	744582	597810	744583	1.2	
9/11/2009 8:24	LPR8I-B5	9/12/2009 10:47	LPR8I	Crayfish Trap	597809	744582	597810	744583	1.2	
9/7/2009 11:47	LPR8I-C1	9/8/2009 11:00	LPR8I	Crayfish Trap	597796	744594	597797	744594	1.5	
9/8/2009 11:01	LPR8I-C2	9/9/2009 13:39	LPR8I	Crayfish Trap	597796	744594	597797	744594	1.5	
9/9/2009 13:41	LPR8I-C3	9/10/2009 11:42	LPR8I	Crayfish Trap	597796	744594	597797	744594	1.5	
9/10/2009 11:42	LPR8I-C4	9/11/2009 8:20	LPR8I	Crayfish Trap	597796	744594	597797	744594	1.5	
9/11/2009 8:23	LPR8I-C5	9/12/2009 10:46	LPR8I	Crayfish Trap	597796	744594	597797	744594	1.5	
9/7/2009 8:41	LPR8J-A1	9/8/2009 8:50	LPR8J	Crab Trap	599109	741767	599110	741769	3	
9/8/2009 8:51	LPR8J-A2	9/9/2009 9:51	LPR8J	Crab Trap	599109	741767	599110	741769	3	
9/9/2009 9:53	LPR8J-A3	9/10/2009 10:26	LPR8J	Crab Trap	599109	741767	599110	741769	3	
9/10/2009 10:26	LPR8J-A4	9/12/2009 8:25	LPR8J	Crab Trap	599109	741767	599110	741769	3	
9/7/2009 8:42	LPR8J-B1	9/8/2009 8:54	LPR8J	Crab Trap	599091	741744	599098	741776	2.6	
9/8/2009 8:57	LPR8J-B2	9/9/2009 9:54	LPR8J	Crab Trap	599091	741744	599098	741776	2.6	
9/9/2009 9:58	LPR8J-B3	9/10/2009 10:30	LPR8J	Crab Trap	599091	741744	599098	741776	2.6	
9/10/2009 10:31	LPR8J-B4	9/12/2009 8:22	LPR8J	Crab Trap	599091	741744	599098	741776	2.6	
9/7/2009 8:43	LPR8J-C1	9/8/2009 8:53	LPR8J	Crab Trap	599082	741789	599083	741795	2.5	
9/8/2009 8:54	LPR8J-C2	9/9/2009 9:46	LPR8J	Crab Trap	599082	741789	599083	741795	2.5	
9/9/2009 9:50	LPR8J-C3	9/10/2009 10:23	LPR8J	Crab Trap	599082	741789	599083	741795	2.5	
9/10/2009 10:25	LPR8J-C4	9/12/2009 11:04	LPR8J	Crab Trap	599082	741789	599083	741795	2.5	
9/7/2009 9:26	LPR8K-A1	9/8/2009 9:52	LPR8K	Crab Trap	597517	737727	597509	737734	3.5	
9/8/2009 9:53	LPR8K-A2	9/9/2009 8:49	LPR8K	Crab Trap	597517	737727	597509	737734	3.5	
9/9/2009 8:55	LPR8K-A3	9/10/2009 12:03	LPR8K	Crab Trap	597517	737727	597509	737734	3.5	
9/10/2009 12:08	LPR8K-A4	9/12/2009 7:37	LPR8K	Crab Trap	597517	737727	597509	737734	3.5	
9/7/2009 9:28	LPR8K-B1	9/8/2009 9:50	LPR8K	Crab Trap	597506	737712	597504	737722	3.8	
9/8/2009 9:51	LPR8K-B2	9/9/2009 8:56	LPR8K	Crab Trap	597506	737712	597504	737722	3.8	
9/9/2009 8:59	LPR8K-B3	9/10/2009 11:57	LPR8K	Crab Trap	597506	737712	597504	737722	3.8	
9/10/2009 12:03	LPR8K-B4	9/12/2009 7:41	LPR8K	Crab Trap	597506	737712	597504	737722	3.8	
9/7/2009 9:29	LPR8K-C1	9/8/2009 9:54	LPR8K	Crab Trap	597504	737702	597505	737709	4.4	
9/8/2009 9:56	LPR8K-C2	9/9/2009 8:47	LPR8K	Crab Trap	597504	737702	597505	737709	4.4	
9/9/2009 8:48	LPR8K-C3	9/10/2009 12:03	LPR8K	Crab Trap	597504	737702	597505	737709	4.4	
9/10/2009 12:07	LPR8K-C4	9/12/2009 7:38	LPR8K	Crab Trap	597504	737702	597505	737709	4.4	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/7/2009 11:50	LPR8L-A1	9/8/2009 11:03	LPR8L	Crab Trap	597797	744551	597798	744553	2.3	
9/8/2009 11:05	LPR8L-A2	9/9/2009 13:39	LPR8L	Crab Trap	597797	744551	597798	744553	2.3	
9/9/2009 13:41	LPR8L-A3	9/10/2009 11:48	LPR8L	Crab Trap	597797	744551	597798	744553	2.3	
9/10/2009 11:50	LPR8L-A4	9/11/2009 8:16	LPR8L	Crab Trap	597797	744551	597798	744553	2.3	
9/11/2009 8:19	LPR8L-A5	9/12/2009 10:50	LPR8L	Crab Trap	597797	744551	597798	744553	2.3	
9/7/2009 11:55	LPR8L-B1	9/8/2009 11:06	LPR8L	Crab Trap	597791	744562	597792	744563	1.9	
9/8/2009 11:07	LPR8L-B2	9/9/2009 13:35	LPR8L	Crab Trap	597791	744562	597792	744563	1.9	
9/9/2009 13:37	LPR8L-B3	9/10/2009 11:50	LPR8L	Crab Trap	597791	744562	597792	744563	1.9	
9/10/2009 11:52	LPR8L-B4	9/11/2009 8:18	LPR8L	Crab Trap	597791	744562	597792	744563	1.9	
9/11/2009 8:20	LPR8L-B5	9/12/2009 10:49	LPR8L	Crab Trap	597791	744562	597792	744563	1.9	
9/7/2009 12:00	LPR8L-C1	9/8/2009 11:07	LPR8L	Crab Trap	597779	744570	597779	744571	2.1	
9/8/2009 11:07	LPR8L-C2	9/9/2009 13:35	LPR8L	Crab Trap	597779	744570	597779	744571	2.1	
9/9/2009 13:37	LPR8L-C3	9/10/2009 11:43	LPR8L	Crab Trap	597779	744570	597779	744571	2.1	
9/10/2009 11:45	LPR8L-C4	9/11/2009 8:15	LPR8L	Crab Trap	597779	744570	597779	744571	2.1	
9/11/2009 8:17	LPR8L-C5	9/12/2009 10:48	LPR8L	Crab Trap	597779	744570	597779	744571	2.1	
9/7/2009 12:57	LPR8M-A1	9/8/2009 11:38	LPR8M	Crab Trap	597012	745965	597014	745965	3	
9/8/2009 12:15	LPR8M-A2	9/9/2009 13:14	LPR8M	Crab Trap	597012	745965	597014	745965	3	
9/9/2009 13:16	LPR8M-A3	9/10/2009 11:21	LPR8M	Crab Trap	597012	745965	597014	745965	3	
9/10/2009 11:22	LPR8M-A4	9/11/2009 7:47	LPR8M	Crab Trap	597012	745965	597014	745965	3	
9/11/2009 7:49	LPR8M-A5	9/12/2009 10:02	LPR8M	Crab Trap	597012	745965	597014	745965	3	
9/7/2009 12:58	LPR8M-B1	9/8/2009 11:43	LPR8M	Crab Trap	597001	745978	597003	745977	3	
9/8/2009 12:14	LPR8M-B2	9/9/2009 13:09	LPR8M	Crab Trap	597001	745978	597003	745977	3	
9/9/2009 13:10	LPR8M-B3	9/10/2009 11:17	LPR8M	Crab Trap	597001	745978	597003	745977	3	
9/10/2009 11:20	LPR8M-B4	9/11/2009 7:44	LPR8M	Crab Trap	597001	745978	597003	745977	3	
9/11/2009 7:48	LPR8M-B5	9/12/2009 10:07	LPR8M	Crab Trap	597001	745978	597003	745977	3	
9/7/2009 12:59	LPR8M-C1	9/8/2009 11:49	LPR8M	Crab Trap	596984	745987	596986	745987	3	
9/8/2009 12:11	LPR8M-C2	9/9/2009 13:07	LPR8M	Crab Trap	596984	745987	596986	745987	3	
9/9/2009 13:07	LPR8M-C3	n/a	LPR8M	Crab Trap	596984	745987	596986	745987	3	Trap lost
n/a	LPR8M-C4	9/11/2009 7:50	LPR8M	Crab Trap	596984	745987	596986	745987	3	Trap recovered
9/11/2009 7:52	LPR8M-C5	9/12/2009 10:00	LPR8M	Crab Trap	596984	745987	596986	745987	3	
9/7/2009 8:39	LPR8N-A1	9/8/2009 9:32	LPR8N	Trotline	599095	741942	599107	741936	3.9	
9/8/2009 9:35	LPR8N-A2	9/9/2009 9:46	LPR8N	Trotline	599095	741942	599107	741936	3.9	
9/9/2009 9:49	LPR8N-A3	9/10/2009 9:30	LPR8N	Trotline	599095	741942	599107	741936	3.9	
9/10/2009 9:33	LPR8N-A4	9/12/2009 11:08	LPR8N	Trotline	599095	741942	599107	741936	3.9	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/7/2009 8:45	LPR8N-B1	9/8/2009 9:28	LPR8N	Trotline	599136	741896	599146	741894	3.9	
9/8/2009 9:30	LPR8N-B2	9/9/2009 9:43	LPR8N	Trotline	599136	741896	599146	741894	3.9	
9/9/2009 9:45	LPR8N-B3	9/10/2009 9:25	LPR8N	Trotline	599136	741896	599146	741894	3.9	
9/10/2009 9:28	LPR8N-B4	9/12/2009 11:10	LPR8N	Trotline	599136	741896	599146	741894	3.9	
9/7/2009 8:50	LPR8N-C1	9/8/2009 9:25	LPR8N	Trotline	599196	741833	599204	741833	4.1	
9/8/2009 9:27	LPR8N-C2	9/9/2009 9:40	LPR8N	Trotline	599196	741833	599204	741833	4.1	
9/9/2009 9:42	LPR8N-C3	9/10/2009 9:21	LPR8N	Trotline	599196	741833	599204	741833	4.1	
9/10/2009 9:23	LPR8N-C4	9/12/2009 10:59	LPR8N	Trotline	599196	741833	599204	741833	4.1	
9/7/2009 9:04	LPR8O-A1	9/8/2009 9:20	LPR8O	Trotline	599432	741174	599428	741167	6	
9/8/2009 9:22	LPR8O-A2	9/9/2009 9:04	LPR8O	Trotline	599432	741174	599428	741167	6	
9/9/2009 9:07	LPR8O-A3	9/10/2009 12:51	LPR8O	Trotline	599432	741174	599428	741167	6	
9/10/2009 12:57	LPR8O-A4	9/12/2009 9:06	LPR8O	Trotline	599432	741174	599428	741167	6	
9/7/2009 9:11	LPR8O-B1	9/8/2009 9:17	LPR8O	Trotline	599417	741079	599419	741079	6.3	
9/8/2009 9:19	LPR8O-B2	9/9/2009 9:00	LPR8O	Trotline	599417	741079	599419	741079	6.3	
9/9/2009 9:08	LPR8O-B3	9/10/2009 12:38	LPR8O	Trotline	599417	741079	599419	741079	6.3	
9/10/2009 12:50	LPR8O-B4	9/12/2009 9:03	LPR8O	Trotline	599417	741079	599419	741079	6.3	
9/7/2009 9:17	LPR8O-C1	9/8/2009 9:09	LPR8O	Trotline	599425	741015	599428	741005	5.2	
9/8/2009 9:15	LPR8O-C2	9/9/2009 8:57	LPR8O	Trotline	599425	741015	599428	741005	5.2	
9/9/2009 8:59	LPR8O-C3	9/10/2009 12:32	LPR8O	Trotline	599425	741015	599428	741005	5.2	
9/10/2009 12:36	LPR8O-C4	9/12/2009 9:01	LPR8O	Trotline	599425	741015	599428	741005	5.2	
9/7/2009 9:42	LPR8P-A1	9/8/2009 8:37	LPR8P	Trotline	600712	738016	600701	738021	10.6	
9/8/2009 8:39	LPR8P-A2	9/9/2009 10:50	LPR8P	Trotline	600712	738016	600701	738021	10.6	
9/9/2009 10:52	LPR8P-A3	9/10/2009 8:18	LPR8P	Trotline	600712	738016	600701	738021	10.6	
9/10/2009 8:20	LPR8P-A4	9/12/2009 8:14	LPR8P	Trotline	600712	738016	600701	738021	10.6	
9/7/2009 9:45	LPR8P-B1	9/8/2009 8:33	LPR8P	Trotline	600699	737974	600758	737920	11.2	
9/8/2009 8:36	LPR8P-B2	9/9/2009 10:46	LPR8P	Trotline	600699	737974	600758	737920	11.2	
9/9/2009 10:48	LPR8P-B3	9/10/2009 8:14	LPR8P	Trotline	600699	737974	600758	737920	11.2	
9/10/2009 8:17	LPR8P-B4	9/12/2009 8:06	LPR8P	Trotline	600699	737974	600758	737920	11.2	
9/7/2009 9:49	LPR8P-C1	9/8/2009 8:30	LPR8P	Trotline	600714	737892	600715	737892	9.4	
9/8/2009 8:32	LPR8P-C2	9/9/2009 10:40	LPR8P	Trotline	600714	737892	600715	737892	9.4	
9/9/2009 10:43	LPR8P-C3	9/10/2009 8:09	LPR8P	Trotline	600714	737892	600715	737892	9.4	
9/10/2009 8:12	LPR8P-C4	9/12/2009 8:01	LPR8P	Trotline	600714	737892	600715	737892	9.4	
9/7/2009 22:12	LPR8Q-A1	9/8/2009 8:19	LPR8Q	Trotline	599259	737355	599288	737349	24	
9/8/2009 20:25	LPR8Q-A2	9/9/2009 10:41	LPR8Q	Trotline	599259	737355	599288	737349	24	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/9/2009 10:42	LPR8Q-A3	9/10/2009 12:51	LPR8Q	Trotline	599259	737355	599288	737349	24	
9/10/2009 12:57	LPR8Q-A4	9/12/2009 8:58	LPR8Q	Trotline	599259	737355	599288	737349	24	
9/7/2009 10:14	LPR8Q-B1	9/8/2009 8:14	LPR8Q	Trotline	599240	737478	599269	737483	18.7	
9/8/2009 8:17	LPR8Q-B2	9/9/2009 10:43	LPR8Q	Trotline	599240	737478	599269	737483	18.7	
9/9/2009 10:45	LPR8Q-B3	9/10/2009 12:38	LPR8Q	Trotline	599240	737478	599269	737483	18.7	
9/10/2009 12:50	LPR8Q-B4	9/12/2009 9:07	LPR8Q	Trotline	599240	737478	599269	737483	18.7	
9/7/2009 10:20	LPR8Q-C1	9/8/2009 8:04	LPR8Q	Trotline	599258	737593	599236	737597	18.9	
9/8/2009 8:09	LPR8Q-C2	9/9/2009 10:47	LPR8Q	Trotline	599258	737593	599236	737597	18.9	
9/9/2009 10:51	LPR8Q-C3	9/10/2009 12:32	LPR8Q	Trotline	599258	737593	599236	737597	18.9	
9/10/2009 12:36	LPR8Q-C4	9/12/2009 9:11	LPR8Q	Trotline	599258	737593	599236	737597	18.9	
9/7/2009 9:33	LPR8R-A1	9/8/2009 8:44	LPR8R	Gillnet	600839	738627	600828	738621	12.6	
9/8/2009 8:58	LPR8R-A2	9/9/2009 9:15	LPR8R	Gillnet	600839	738627	600828	738621	12.6	
9/9/2009 9:25	LPR8R-A3	9/10/2009 11:15	LPR8R	Gillnet	600839	738627	600828	738621	12.6	
9/10/2009 11:23	LPR8R-A4	9/12/2009 8:45	LPR8R	Gillnet	600839	738627	600828	738621	12.6	
9/7/2009 10:27	LPR8S-A1	9/8/2009 7:48	LPR8S	Gillnet	597848	738329	597833	738329	14	
9/8/2009 8:00	LPR8S-A2	n/a	LPR8S	Gillnet	597848	738329	597833	738329	14	Gear lost
9/9/2009 11:23	LPR8S-A3	9/10/2009 13:02	LPR8S	Gillnet	597848	738329	597833	738329	14	
9/10/2009 13:23	LPR8S-A4	9/12/2009 12:00	LPR8S	Gillnet	597848	738329	597833	738329	14	
9/7/2009 13:09	LPR8T-A1	9/8/2009 11:53	LPR8T	Crayfish Trap	596998	745952	596999	745953	2	
9/8/2009 12:02	LPR8T-A2	9/9/2009 13:10	LPR8T	Crayfish Trap	596998	745952	596999	745953	2	
9/9/2009 13:12	LPR8T-A3	9/10/2009 11:13	LPR8T	Crayfish Trap	596998	745952	596999	745953	2	
9/10/2009 11:15	LPR8T-A4	9/11/2009 7:39	LPR8T	Crayfish Trap	596998	745952	596999	745953	2	
9/11/2009 7:43	LPR8T-A5	9/12/2009 9:59	LPR8T	Crayfish Trap	596998	745952	596999	745953	2	
9/7/2009 13:10	LPR8T-B1	9/8/2009 11:56	LPR8T	Crayfish Trap	596984	745964	596986	745961	2	
9/8/2009 12:06	LPR8T-B2	9/9/2009 13:11	LPR8T	Crayfish Trap	596984	745964	596986	745961	2	
9/9/2009 13:13	LPR8T-B3	9/10/2009 11:16	LPR8T	Crayfish Trap	596984	745964	596986	745961	2	
9/10/2009 11:16	LPR8T-B4	9/11/2009 7:44	LPR8T	Crayfish Trap	596984	745964	596986	745961	2	
9/11/2009 7:48	LPR8T-B5	9/12/2009 9:57	LPR8T	Crayfish Trap	596984	745964	596986	745961	2	
9/7/2009 13:11	LPR8T-C1	9/8/2009 11:54	LPR8T	Crayfish Trap	596975	745971	596976	745970	2	
9/8/2009 12:08	LPR8T-C2	9/9/2009 13:06	LPR8T	Crayfish Trap	596975	745971	596976	745970	2	
9/9/2009 13:09	LPR8T-C3	9/10/2009 11:11	LPR8T	Crayfish Trap	596975	745971	596976	745970	2	
9/10/2009 11:12	LPR8T-C4	9/11/2009 7:39	LPR8T	Crayfish Trap	596975	745971	596976	745970	2	
9/11/2009 7:44	LPR8T-C5	9/12/2009 9:56	LPR8T	Crayfish Trap	596975	745971	596976	745970	2	
9/7/2009 12:40	LPR8U-A1	9/7/2009 12:40	LPR8U	Boat Electrofishing	600524	737371	600528	737366	8	

Table 1. Location form data from 2009 LPRSA fish/decapod collection and community survey field effort

Deployment Date	Trap Attempt	Retrieval Date	Location ID	Collection Method	Field-recorded Easting	Field-recorded Northing	Final Easting	Final Northing	Depth	Comments
9/8/2009 10:57	LPR8U-A2	9/8/2009 10:57	LPR8U	Boat Electrofishing	600524	737371	600528	737366	8	
9/8/2009 7:49	LPR8U-A3	9/9/2009 7:49	LPR8U	Boat Electrofishing	600524	737371	600528	737366	8	
9/10/2009 9:30	LPR8U-A4	9/10/2009 9:30	LPR8U	Boat Electrofishing	600524	737371	600528	737366	8	
9/12/2009 7:58	LPR8U-A5	9/12/2009 7:58	LPR8U	Boat Electrofishing	600524	737371	600528	737366	8	
9/7/2009 13:15	LPR8V-A1	9/7/2009 13:15	LPR8V	Boat Electrofishing	599729	740405	599755	740370	5.5	
9/8/2009 10:30	LPR8V-A2	9/8/2009 10:30	LPR8V	Boat Electrofishing	599729	740405	599755	740370	5.5	
9/8/2009 8:25	LPR8V-A3	9/9/2009 8:25	LPR8V	Boat Electrofishing	599729	740405	599755	740370	5.5	
9/10/2009 8:38	LPR8V-A4	9/10/2009 8:38	LPR8V	Boat Electrofishing	599729	740405	599755	740370	5.5	
9/12/2009 9:35	LPR8V-A5	9/12/2009 9:35	LPR8V	Boat Electrofishing	599729	740405	599755	740370	5.5	
9/7/2009 13:50	LPR8W-A1	9/7/2009 13:50	LPR8W	Boat Electrofishing	599271	741599	599277	741575	3	
9/8/2009 9:48	LPR8W-A2	9/8/2009 9:48	LPR8W	Boat Electrofishing	599271	741599	599277	741575	3	
9/8/2009 10:07	LPR8W-A3	9/9/2009 10:07	LPR8W	Boat Electrofishing	599271	741599	599277	741575	3	
9/10/2009 10:11	LPR8W-A4	9/10/2009 10:11	LPR8W	Boat Electrofishing	599271	741599	599277	741575	3	
9/12/2009 11:16	LPR8W-A5	9/12/2009 11:16	LPR8W	Boat Electrofishing	599271	741599	599277	741575	3	
9/7/2009 14:00	LPR8X-A1	9/7/2009 14:00	LPR8X	Boat Electrofishing	599365	741628	599354	741619	3	
9/8/2009 10:09	LPR8X-A2	9/8/2009 10:09	LPR8X	Boat Electrofishing	599365	741628	599354	741619	3	
9/8/2009 9:51	LPR8X-A3	9/9/2009 9:51	LPR8X	Boat Electrofishing	599365	741628	599354	741619	3	
9/10/2009 10:30	LPR8X-A4	9/10/2009 10:30	LPR8X	Boat Electrofishing	599365	741628	599354	741619	3	
9/12/2009 10:57	LPR8X-A5	9/12/2009 10:57	LPR8X	Boat Electrofishing	599365	741628	599354	741619	3	
9/8/2009 12:32	LPR8Y-A1	9/8/2009 12:32	LPR8Y	Backpack Electrofishing	596960	746131	596961	746132	2.5	
9/8/2009 12:20	LPR8Y-A2	9/9/2009 12:20	LPR8Y	Backpack Electrofishing	596960	746131	596961	746132	2.5	
9/10/2009 9:55	LPR8Y-A3	9/10/2009 9:55	LPR8Y	Backpack Electrofishing	596960	746131	596961	746132	2.5	
9/10/2009 10:35	LPR8Y-A4	9/10/2009 10:35	LPR8Y	Backpack Electrofishing	596960	746131	596961	746132	2.5	
9/11/2009 11:51	LPR8Y-A5	9/11/2009 11:51	LPR8Y	Backpack Electrofishing	596960	746131	596961	746132	2.5	
9/8/2009 13:15	LPR8Z-A1	9/8/2009 13:15	LPR8Z	Backpack Electrofishing	595611	746919	595612	746920	3	
9/8/2009 11:25	LPR8Z-A2	9/9/2009 11:25	LPR8Z	Backpack Electrofishing	595611	746919	595612	746920	3	
9/10/2009 8:40	LPR8Z-A3	9/10/2009 8:40	LPR8Z	Backpack Electrofishing	595611	746919	595612	746920	3	
9/10/2009 9:15	LPR8Z-A4	9/10/2009 9:15	LPR8Z	Backpack Electrofishing	595611	746919	595612	746920	3	
9/11/2009 11:03	LPR8Z-A5	9/11/2009 11:03	LPR8Z	Backpack Electrofishing	595611	746919	595612	746920	3	

Note: Field-recorded easting and northing refer to GPS coordinates transcribed by hand on field forms during the field effort.
Final easting and northing refer to GPS coordinates that are differentially corrected to obtain sub-foot accuracy. Additional corrections were applied to a few locations where GPS coordinates were not valid due to signal error. These final easting and northing coordinates are imported into the project database as the "final" coordinate list.

File Name: fdf 20090811-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/11/2009	Exam Date: 8/11/2009	Examined By: ML
Digital Photo Record	Camera: Nikon Cool Pix	Photo Numbers: 8
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3M-MA015		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☐ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	✔ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
✔ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090811-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Left eye missing, left pectoral fin frayed. A large amount of the fish was eaten, left side of head and caudal peduncle and fin missing due to likely predation. Specimen was discarded.

File Name: fdf 20090811-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Stomach full of amphipods and unidentified prey items.

File Name: fdf 20090811-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/11/2009	Exam Date: 8/11/2009	Examined By: ML
Digital Photo Record	Camera: Nikon Cool Pix	Photo Numbers: 0041,0045
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-BT002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090811-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Minor hemorrhagic on left side, right pectoral fin frayed,		

File Name: fdf 20090811-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [ ] Normal
- [ ] Fluid – clear
- [x] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [ ] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [x] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [x] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [x] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Internal organs are soft and beginning to decay, body cavity full of brown fluid

File Name: fdf 20090813-6

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/13/2009	Exam Date: 8/13/2009	Examined By: ML, SF
Digital Photo Record	Camera: 1	Photo Numbers: 81
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-SB001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
✔ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	✔ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090813-6

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☑ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Raised scales on left side below lateral line; frayed/eroded fins or rear dorsal, anal (minor) and right pectoral-damaged in net; white spots on left and right outer gills; parts of right gills are missing.		

File Name: fdf 20090813-6

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	✔ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☐ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Stomach was full with one full fish and parts of other fish; kidneys damaged during processing, unable to assess.

File Name: fdf 20090813-7

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/13/2009	Exam Date: 8/13/2009	Examined By: ML, SF
Digital Photo Record	Camera: 1	Photo Numbers: 82-87
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-BT005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
✔ Parasites	✔ Frayed – eroded	☐ Mouth
✔ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090813-7

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Hole on left lateral surface above lateral line in front of dorsal fin; isolated black spots on dorsal, ventral surfaces between pectoral and pelvic fins; slight fraying on caudal and pectoral fins (minor); anus-brown fluid leakage; mucous on left gills.

File Name: fdf 20090813-7

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [ ] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [ ] Empty
- [x] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [ ] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [ ] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [x] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [ ] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [ ] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [ ] Normal
- [x] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [ ] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [x] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Intenal organs (liver, spleen, kidneys, pyloric caeca) are soft and indistinct.

File Name: fdf 20090813-8

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/13/2009	Exam Date: 8/13/2009	Examined By: ML, SF
Digital Photo Record	Camera: 1	Photo Numbers: 87-95
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-BT006		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	☐ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
✔ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
✔ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☐ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	✔ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090813-8

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Wounds on caudal peduncle; raised scales on dorsal surface (left and right) near caudal fin (abraded); holes in upper lip; damaged right eye, urogenital opening, and anus; pale gills and mucous on both sides.

File Name: fdf 20090813-8

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☑ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	☑ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	☐ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
☐ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☑ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	☐ Normal	☐ Immature
☐ Full	☐ Pale	☑ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Organs are too soft for assessment (spleen, kidneys, liver); gall bladder is black; stomach is full with brown fine grit.

File Name: fdf 20090813-9

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/13/2009	Exam Date: 8/13/2009	Examined By: ML, SF
Digital Photo Record	Camera: 1	Photo Numbers: 95-103
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-BT007		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☐ Normal	☐ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	✔ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090813-9

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☑ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Missing scales on left side of lateral line and right side of caudal peduncle, and right side of lateral line; right eye and area near eye are damaged; urogenital opening and anus are damaged; deformed gill rakers,

File Name: fdf 20090813-9

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☐ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☑ Normal	☐ Parasites	☑ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☑ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Brown fluid in body cavity and food in stomach is dark brown grit.

File Name: fdf 20090814-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/14/2009	Exam Date: 8/14/2009	Examined By: ML,JF
Digital Photo Record	Camera: 1	Photo Numbers: 113-116, 124-125
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-SB002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	✔ Pelvic	
✔ Normal	✔ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090814-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Missing scales on left lateral surface below lateral line and ventral surface		

File Name: fdf 20090814-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☑ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☐ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☑ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☑ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☑ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090814-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/14/2009	Exam Date: 8/14/2009	Examined By: ML,JF
Digital Photo Record	Camera: 1	Photo Numbers: 126-131
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR3O-SB003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	✔ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090814-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☑ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Compressed body surface around opercle likely from gillnet. Leach on left pectoral and right pelvic fins.		

File Name: fdf 20090814-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	✔ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	✔ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090820-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/20/2009	Exam Date: 8/20/2009	Examined By: DD,ML
Digital Photo Record	Camera: NA	Photo Numbers: NA
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR5A-AR047		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☑ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090820-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Body surface has discoloration on the dorsal surface below the dorsal fin. Anal and pectoral fins have mild hemorrhaging. Length=310mm Weight=58g

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY
- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT
- [x] Normal
- [ ] None
- [ ] Excessive

LIVER
- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER
- [ ] Empty
- [x] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH
- [ ] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES
- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN
- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER
- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY
- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES
- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE
- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS
- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA
- [ ] Normal
- [ ] Parasites

TESTIS
- [x] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Worms attached to inside of the stomach, which are likely parasites.

File Name: fdf 20090820-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/20/2009	Exam Date: 8/20/2009	Examined By: DD,ML
Digital Photo Record	Camera: 2	Photo Numbers: 0143
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR5A-AR045		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090820-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Length=325mm and Weight=82g		

File Name: fdf 20090820-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☐ Normal	☑ Normal	☐ Immature
☑ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☑ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder has several wormlike parasites in it.(photo0143) Stomach has a few parasites attached.

File Name: fdf 20090820-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/20/2009	Exam Date: 8/20/2009	Examined By: DD,ML
Digital Photo Record	Camera: 2	Photo Numbers: 144-145
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR5A-AR046		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090820-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Some mottling on both left and right sides near anal fin. Several wormlike parasites in swim bladder (photo 144).

File Name: fdf 20090820-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	✔ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
✔ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Several wormlike parasites in stomach (Photo 145).

File Name: fdf 20090822-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/22/2009	Exam Date: 8/22/2009	Examined By: DD,ML
Digital Photo Record	Camera: 1	Photo Numbers: 144
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR5B-NH001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090822-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090822-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	✔ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

The fish is too small for the gall bladder to be determined. Specimen is an immature female.

File Name: fdf 20090822-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/22/2009	Exam Date: 8/22/2009	Examined By: DD,ML
Digital Photo Record	Camera: 1	Photo Numbers: 145
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR5P-NH002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090822-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Most scales on the fish were removed from handling.		

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY
- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT
- [x] Normal
- [ ] None
- [ ] Excessive

LIVER
- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER
- [ ] Empty
- [x] Full
- [x] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH
- [ ] Normal
- [x] Empty
- [ ] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES
- [ ] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN
- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER
- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY
- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES
- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE
- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS
- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA
- [ ] Normal
- [ ] Parasites

TESTIS
- [ ] Immature
- [x] Mature
- [x] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

The liver is creamy. The stomach and intestines are shrunken and empty.

File Name: fdf 20090825-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/25/2009	Exam Date: 8/25/2009	Examined By: CL, DD
Digital Photo Record	Camera: 1	Photo Numbers: 128
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6C-NH003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090825-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090825-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [ ] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [ ] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [ ] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Gall bladder and spleen too small to locate.
Sex organs unable to differentiate.

File Name: fdf 20090825-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/25/2009	Exam Date: 8/25/2009	Examined By: CL, DD
Digital Photo Record	Camera: 1	Photo Numbers: 129
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR7H-LM001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090825-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090825-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☑ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

white spots near heart (photo 131, camera 1)

File Name: fdf 20090825-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/25/2009	Exam Date: 8/25/2009	Examined By: DD
Digital Photo Record	Camera: 1	Photo Numbers: 132
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6L-MD005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☐ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
✔ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090825-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

wound on right ventral surface (photo 133, camera 1); left pectoral fin damaged by gill net.

File Name: fdf 20090825-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
✔ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	✔ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

4 pea-size growths and 3 pebble size growths (photo 134, camera 1); parasites on liver (photo 136, camera 1).

File Name: fdf 20090825-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/25/2009	Exam Date: 8/25/2009	Examined By: RB, DD
Digital Photo Record	Camera: 1	Photo Numbers: 143
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6M-LG001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090825-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090825-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

small white spots on liver (photo 134, camera 1); clear yellow fluid in gall bladder.

File Name: fdf 20090825-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/25/2009	Exam Date: 8/25/2009	Examined By: RB, DD
Digital Photo Record	Camera: 1	Photo Numbers: 137
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6P-MD004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090825-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
small spot under rigtht nostril; gills paler than other specimens.		

File Name: fdf 20090825-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	✔ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
✔ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

small white parasites in intestine; small white dots on liver; pea-size nodules on intestines (photo 142, camera 1).

File Name: fdf 20090826-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: DD,CL
Digital Photo Record	Camera: 1	Photo Numbers: 162-163
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6L-MD006		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Opercle, gill net damage to the left side. Isthmus, gill net damage.		

File Name: fdf 20090826-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☑ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090826-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 154
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6L-CC049		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
✔ Normal	✔ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
✔ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Body surface and caudal and dorsal fins have damage due to gillnet. Media oversight.
Length=531 mm and weight=2005 g

File Name: fdf 20090826-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	✔ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090826-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: RB,DD
Digital Photo Record	Camera: 1	Photo Numbers: 155
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6N-CC044		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
✔ Normal	✔ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
✔ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	✔ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Gillnet damage to fins (i.e., dorsal, anal, and caudal) and body surface. Length=591 mm and weight=2950 g		

File Name: fdf 20090826-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☑ Mature
☐ Yellow	☐ Swollen	☑ Ripe
☑ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090826-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: CL,DD
Digital Photo Record	Camera: 1	Photo Numbers: 156
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR7L-CC060		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
✔ Normal	✔ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
✔ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	✔ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Gillnet damage to body surface and all fins. Length=529 mm and weight=2200 g		

File Name: fdf 20090826-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	✔ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090826-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: CL
Digital Photo Record	Camera: 1	Photo Numbers: 156,161
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR7F-LA001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Length=158 mm and weight=74 g		

File Name: fdf 20090826-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY
- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT
- [x] Normal
- [ ] None
- [ ] Excessive

LIVER
- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER
- [ ] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [x] Parasites

STOMACH
- [x] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES
- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN
- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER
- [ ] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY
- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES
- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE
- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS
- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA
- [ ] Normal
- [ ] Parasites

TESTIS
- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Parasites in gall bladder, 3 cm pink worms (Photo 161, camera 1)
Gas bladder not found.
No sex organs apparent.

File Name: fdf 20090826-5

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/26/2009	Exam Date: 8/26/2009	Examined By: DD,CL
Digital Photo Record	Camera: 1	Photo Numbers: 164-166
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6Q-SB004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☐ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090826-5

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☑ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Blood under left eye. First ray of the pectoral fin is eroded (Photo 165,camera 1). Parasites on right gill are white and V-shaped (Photo 166). Length=187 mm Weight=70 g

File Name: fdf 20090826-5

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☑ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☑ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
☑ Discolored	☐ Discolored	☐ I Baumann
☑ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Stomach is swollen and enlarged;~ 4 in. parasitic red worm. Sexual organs not found. Discolored liver (Photo 167, camera 1). Gall bladder yellowish orange. Intestinal parasites: yellow worm (photo 169, camera 1) and long red worms (photo 170, camera 1)

File Name: fdf 20090827-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/27/2009	Exam Date: 8/27/2009	Examined By: DD, RB
Digital Photo Record	Camera: 1	Photo Numbers: 174
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6O-SB005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	☐ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	✔ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	✔ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	✔ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090827-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☐ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☑ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling

OTHER OBSERVATIONS

Leech attached to lips and jaws, hook damage. Left and right pelvic fins hemorrhagic. Small white v-shaped parasites on left and right gills (camera 1, photo 176).

File Name: fdf 20090827-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [ ] Normal
- [x] Discolored
- [x] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [x] Parasites

GALL BLADDER

- [ ] Empty
- [x] Full
- [ ] Yellow
- [x] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [x] Empty
- [ ] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [ ] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [x] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [x] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [x] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Parasites on body cavity (camera 1, photo 177). intestinal parasites (photo 179, camera 1). Liver (photo 181 camera 1).

File Name: fdf 20090827-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/27/2009	Exam Date: 8/27/2009	Examined By: DD, RB
Digital Photo Record	Camera: 1	Photo Numbers: 182
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR7R-WS001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	✔ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090827-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Dorsal, caudal, and right pectoral fins hemorrhagic.		

File Name: fdf 20090827-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☑ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090827-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/27/2009	Exam Date: 8/27/2009	Examined By: RB, CL
Digital Photo Record	Camera: 1	Photo Numbers: 183
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR7U-LG003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090827-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☑ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [x] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [ ] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [x] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [ ] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [x] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [x] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

File Name: fdf 20090827-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/27/2009	Exam Date: 8/27/2009	Examined By: CL, DD
Digital Photo Record	Camera: 1	Photo Numbers: 184
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR7U-LG002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090827-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090827-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☐ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☑ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Liver has white spots (photo 185, camera 1)

File Name: fdf 20090828-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/28/2009	Exam Date: 8/28/2009	Examined By: RB, DD
Digital Photo Record	Camera: 1	Photo Numbers: 187
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR6I-LG004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090828-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090828-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☐ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090828-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/28/2009	Exam Date: 8/28/2009	Examined By: DD, RB
Digital Photo Record	Camera: 1	Photo Numbers: 188
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR6J-LG005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090828-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090828-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090829-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 8/29/2009	Exam Date: 8/29/2009	Examined By: DD, CL
Digital Photo Record	Camera: 1	Photo Numbers: 189
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR6N-WS002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☐ Normal
BODY SURFACE	☐ Popeye	☑ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	☑ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☑ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☐ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☑ Pectoral	
SNOUT	☑ Pelvic	
☑ Normal	☑ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☑ Caudal	
☐ Abrasions		

File Name: fdf 20090829-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Gillnet damage to body surface and hemorrhaging; gillnet damage to right side of mouth; gillnet damage to fins (all areas checked above); urogenital opening and anus inflamed and red, possibly from gillnet.		

File Name: fdf 20090829-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☐ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☑ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☑ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder filled with clear red fluid.

File Name: fdf 20090901-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 195
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1D-MM001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	☐ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☐ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
✔ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder and the pyloric caeca were not found due to the small size of the fish.

File Name: fdf 20090901-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 196
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2C-MM002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder and pyloric caeca not found due to small size of fish.

File Name: fdf 20090901-10

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 193
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1I-PS005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-10

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-10

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☐ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☑ Normal	☐ Parasites	☑ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☑ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☑ Mature
☑ Yellow	☐ Swollen	☑ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Three partially eaten fish were found in the stomach (One of the fish is an Atlantic Silverside).

File Name: fdf 20090901-11

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 197
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1O-GX001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	✔ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	✔ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-11

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-11

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☐ Normal	☐ Parasites	✔ Normal
✔ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
✔ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☐ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090901-12

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 203
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1J-TM001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-12

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Gender determined by external observation.		

File Name: fdf 20090901-12

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
✔ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Ovaries, gas bladder and pyloric caeca were not found.

File Name: fdf 20090901-14

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 204
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1J-BT008		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-14

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-14

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☐ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder was not found.

File Name: fdf 20090901-15

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 205
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1K-CR001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-15

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-15

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
✔ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder not found.

File Name: fdf 20090901-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 202
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2R-MM003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090901-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 198
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2R-MM004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☐ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder, gas bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090901-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 199
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2R-MM005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder, gas bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090901-5

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 191
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2K-PS001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	✔ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	✔ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	✔ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-5

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-5

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	✔ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090901-6

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 192
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2K-PS002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090901-6

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090901-6

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	✔ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	✔ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090901-8

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 194
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2K-PS003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☑ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☑ Pectoral	
SNOUT	☑ Pelvic	
☑ Normal	☑ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☑ Caudal	
☐ Abrasions		

File Name: fdf 20090901-8

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Fins (i.e., pectoral, pelvic, anal, and caudal) were frayed only.		

File Name: fdf 20090901-8

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Pyloric caeca was not found.

File Name: fdf 20090901-9

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/1/2009	Exam Date: 9/1/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 190
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR2K-PS004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	✔ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090901-9

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Opercle was damaged (see photo 190,camera 1).		

File Name: fdf 20090901-9

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	✔ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	✔ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090902-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/2/2009	Exam Date: 9/2/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 206
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☒ No
Specimen ID: LPR1B-GX002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090902-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090902-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [ ] Normal
- [x] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [ ] Empty
- [x] Full
- [x] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [ ] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

File Name: fdf 20090902-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/2/2009	Exam Date: 9/2/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 207
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR2O-GX003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090902-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090902-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☐ Normal	☐ Parasites	✔ Normal
✔ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder, gas bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090902-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/2/2009	Exam Date: 9/2/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 208
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR2E-GX004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090902-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090902-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [ ] Normal
- [x] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [ ] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [x] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [ ] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [ ] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [ ] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

Gall bladder, gas bladder and pyloric caeca were not found due to the small size of fish.

File Name: fdf 20090903-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/3/2009	Exam Date: 9/3/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 210
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR1O-GX005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090903-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090903-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☐ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder, gas bladder and pyloric caeca not found due to small size of fish.

File Name: fdf 20090903-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/3/2009	Exam Date: 9/3/2009	Examined By: CL,RB
Digital Photo Record	Camera: 1	Photo Numbers: 211
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR2K-WF001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090903-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090903-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	☐ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
✔ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Pyloric caeca not found.

File Name: fdf 20090904-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/4/2009	Exam Date: 9/4/2009	Examined By: RB,CL
Digital Photo Record	Camera: 1	Photo Numbers: 212
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR1K-WF002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☐ Normal	☐ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☐ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☐ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090904-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Body form, body surface, lips and jaws, snout, isthmus, eyes,opercle were missing or partially eaten. Urogential opening had intestines protruding from opening.		

File Name: fdf 20090904-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☐ Normal	☐ Parasites	✔ Normal
✔ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder and pyloric caeca were not found.

File Name: fdf 20090904-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/4/2009	Exam Date: 9/4/2009	Examined By: RB.SR
Digital Photo Record	Camera: 1	Photo Numbers: 213
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR1J-WF003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090904-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090904-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☐ Normal	☐ Parasites	✔ Normal
✔ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
✔ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gas bladder and pyloric caeca were not found.

File Name: fdf 20090904-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/4/2009	Exam Date: 9/4/2009	Examined By: RB, SR
Digital Photo Record	Camera: 1	Photo Numbers: 216
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR1Q-BC001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090904-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090904-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder and pyloric caeca were not found due to small size of fish.

File Name: fdf 20090904-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/4/2009	Exam Date: 9/4/2009	Examined By: RB,SR
Digital Photo Record	Camera: 1	Photo Numbers: 215
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR1O-PC001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090904-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Species: Northern Sea Robin		

File Name: fdf 20090904-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
☐ Normal	☐ Parasites	✔ Normal
✔ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Gall bladder was not found due to small size of fish.

File Name: fdf 20090907-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: RB, MY
Digital Photo Record	Camera: 1	Photo Numbers: 221, 226
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8X-MD007		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Upper left lip damaged		

File Name: fdf 20090907-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☑ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☑ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☑ Parasites	☐ Growths	☑ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☑ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

Spleen has parasites

File Name: fdf 20090907-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: RB, MY
Digital Photo Record	Camera: 1	Photo Numbers: 218, 219
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8V-LM002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090907-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☑ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☑ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090907-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: MY, RB
Digital Photo Record	Camera: 1	Photo Numbers: 217
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8X-LM003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090907-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☑ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☑ Empty	☑ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090907-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: DD, TD
Digital Photo Record	Camera: 1	Photo Numbers: 220
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8W-WS003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	✔ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	✔ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	✔ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090907-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☑ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090907-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: DD, TD
Digital Photo Record	Camera: 1	Photo Numbers: 222, 223, 224
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8W-WS004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	✔ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	✔ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	✔ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
Electrofishing burns on both sides (photos 223 and 224)		

File Name: fdf 20090907-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☐ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090907-5

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/7/2009	Exam Date: 9/7/2009	Examined By: RB, MY
Digital Photo Record	Camera: 1	Photo Numbers: 227
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8X-WS005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	✔ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	✔ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090907-5

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090907-5

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☑ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090908-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 233
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8W-LM004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
PARASITE IN ANUS		

File Name: fdf 20090908-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

GAS BLADDER WAS NOT FOUND.

File Name: fdf 20090908-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: DD,SR
Digital Photo Record	Camera: 1	Photo Numbers: 232
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8W-LA002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	☐ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	✔ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090908-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090908-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: RB
Digital Photo Record	Camera: 1	Photo Numbers: 234
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8W-LA003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090908-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	✔ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090908-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: DD
Digital Photo Record	Camera: 1	Photo Numbers: 235, 237, 238
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8X-MD008		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
GILLS ARE PALE IN COLOR		

File Name: fdf 20090908-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY

- [x] Normal
- [ ] Fluid – clear
- [ ] Fluid – bloody
- [ ] Fluid – cloudy
- [ ] Adhesions

MESENTERIC FAT

- [x] Normal
- [ ] None
- [ ] Excessive

LIVER

- [x] Normal
- [ ] Discolored
- [ ] Yellowish
- [ ] Pale
- [ ] Enlarged
- [ ] Growths
- [ ] Parasites

GALL BLADDER

- [x] Empty
- [ ] Full
- [ ] Yellow
- [ ] Green
- [ ] Enlarged
- [ ] Parasites

STOMACH

- [x] Normal
- [ ] Empty
- [ ] Food
- [ ] Mucous
- [ ] Fluid
- [ ] Hemorrhagic

INTESTINES

- [x] Normal
- [ ] Flaccid
- [ ] Mucous
- [x] Feces
- [ ] Fluid
- [ ] Hemorrhagic
- [ ] Parasites

SPLEEN

- [x] Normal
- [ ] Enlarged
- [ ] Shrunken
- [ ] Discolored
- [ ] Ceroid Pigment Centers

GAS BLADDER

- [x] Normal
- [ ] Fluid
- [ ] Growths

KIDNEY

- [x] Normal
- [ ] Pale
- [ ] Swollen
- [ ] Soft
- [ ] Hemorrhagic
- [ ] Stones
- [ ] Growths
- [ ] Cysts
- [ ] Parasites (urinary bladder)

OVARIES

- [ ] Immature
- [x] Mature
- [ ] Ripe
- [ ] Reabsorbing
- [ ] Growth

MUSCLE

- [x] Normal
- [ ] Soft
- [ ] Parasites

TUMORS

- [ ] Livers
- [ ] I Baumann
- [ ] II Scale
- [ ] III

PYLORIC CAECA

- [x] Normal
- [ ] Parasites

TESTIS

- [ ] Immature
- [ ] Mature
- [ ] Ripe
- [ ] Constructed
- [ ] Growth

OTHER OBSERVATIONS

NODULES OBSERVED ON EXTERIOR OF INTESTINE

File Name: fdf 20090908-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: DD, SR
Digital Photo Record	Camera: 1	Photo Numbers: 253
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8R-CC125		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	☐ Normal
BODY SURFACE	☐ Popeye	✔ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☐ Normal
☐ Swollen	☐ Lens deformed	✔ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
✔ Normal	✔ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
✔ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	✔ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
DAMAGE FROM GILLNET TO BODY SURFACE AND DORSAL FIN.		

File Name: fdf 20090908-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	☐ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PYLORIC CAECA WAS NOT FOUND

File Name: fdf 20090908-5

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: RB, SR
Digital Photo Record	Camera: 1	Photo Numbers: 252
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8R-CC126		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-5

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☑ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
LIPS, JAWS, AND FINS(IE DORSAL, PECTORAL, PELVIC, ANAL, CAUDAL) DAMAGED		

File Name: fdf 20090908-5

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	☐ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PYLORIC CAECA WAS NOT FOUND.

File Name: fdf 20090908-6

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/8/2009	Exam Date: 9/8/2009	Examined By: MY,DD
Digital Photo Record	Camera: 1	Photo Numbers: 239
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Y-LA004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090908-6

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090908-6

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090909-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/9/2009	Exam Date: 9/9/2009	Examined By: RB.MY
Digital Photo Record	Camera: 1	Photo Numbers: 244
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Z-CA001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090909-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090909-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	☐ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

GALL BLADDER AND PYLORIC CAECA NOT FOUND

File Name: fdf 20090909-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/9/2009	Exam Date: 9/9/2009	Examined By: RB,MY
Digital Photo Record	Camera: 1	Photo Numbers: 245
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8U-LA005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090909-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090909-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	✔ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090909-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/9/2009	Exam Date: 9/9/2009	Examined By: RB,MY
Digital Photo Record	Camera: 1	Photo Numbers: 243
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8U-LM005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090909-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090909-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	✔ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090909-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/9/2009	Exam Date: 9/9/2009	Examined By: RB,MY
Digital Photo Record	Camera: 1	Photo Numbers: 242
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8V-AR176		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090909-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☐ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
PARASITE IN ANUS		

File Name: fdf 20090909-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	✔ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	✔ Mucous	☐ Ripe
☐ Fluid – cloudy	☐ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PARASITES FOUND IN INTESTINES AND STOMACH

File Name: fdf 20090909-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/9/2009	Exam Date: 9/9/2009	Examined By: RB,MY
Digital Photo Record	Camera: 1	Photo Numbers: 240,241
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8V-AR177		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090909-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☐ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☐ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090909-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	✔ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	✔ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090911-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/11/2009	Exam Date: 9/11/2009	Examined By: DD, SR
Digital Photo Record	Camera: 1	Photo Numbers: 250
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Z-CA002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090911-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090911-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☐ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090911-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/11/2009	Exam Date: 9/11/2009	Examined By: DD, SR
Digital Photo Record	Camera: 1	Photo Numbers: 252
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Z-CA003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090911-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090911-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☑ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☑ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090911-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/11/2009	Exam Date: 9/11/2009	Examined By: DD, SR
Digital Photo Record	Camera: 1	Photo Numbers: 254
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Z-NH004		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090911-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090911-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	☐ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090911-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/11/2009	Exam Date: 9/11/2009	Examined By: DD, SR
Digital Photo Record	Camera: 1	Photo Numbers: 253
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR8Z-NH005		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090911-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090911-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☑ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090918-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/18/2009	Exam Date: 9/18/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 261
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR5R-CC164		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	✔ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☐ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	✔ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	✔ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	✔ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	✔ Caudal	
☐ Abrasions		

File Name: fdf 20090918-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☑ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090918-0

INTERNAL PHYSICAL EXAMINATION		
BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	MUSCLE
✔ Normal	☐ Parasites	✔ Normal
☐ None	SPLEEN	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	TUMORS
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	GAS BLADDER	☐ III
☐ Enlarged	✔ Normal	PYLORIC CAECA
☐ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	KIDNEY	TESTIS
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☐ Food		
✔ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090918-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/18/2009	Exam Date: 9/18/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 263
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR5T-CC171		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090918-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☑ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090918-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☐ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
✔ Growths	☐ Fluid	☐ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	✔ Ripe
✔ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PYLORIC CAECA NOT FOUND.

File Name: fdf 20090919-0

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/19/2009	Exam Date: 9/19/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 265,267
Sex: ☒ M ☐ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR6H-PN003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090919-0

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		
HEMORRHAGIC MOUTH		

File Name: fdf 20090919-0

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	✔ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	✔ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	☐ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PARASITES IN INTESTINES (PHOTO 267, CAMERA 1)

File Name: fdf 20090919-1

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/19/2009	Exam Date: 9/19/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 268
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR4S-PN002		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☑ Caudal	
☐ Abrasions		

File Name: fdf 20090919-1

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090919-1

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
✔ Full	☐ Pale	✔ Mature
✔ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
✔ Empty	☐ Parasites (urinary bladder)	
☐ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

PARASITES FOUND IN STOMACH

File Name: fdf 20090919-2

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/19/2009	Exam Date: 9/19/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 269,272
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR4S-PN001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090919-2

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090919-2

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
✔ Normal	✔ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	✔ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
✔ Normal	☐ Parasites	✔ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	✔ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
✔ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	✔ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	✔ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	✔ Normal	☐ Immature
☐ Full	☐ Pale	✔ Mature
☐ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
✔ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
✔ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

GALL BLADDER WAS NOT FOUND
PARASITE IN STOMACH (PHOTO 272,CAMERA 1)

File Name: fdf 20090919-3

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/19/2009	Exam Date: 9/19/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 273
Sex: ☐ M ☐ F ☒ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR5R-DC003		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
☑ Normal	☑ Normal	☑ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	☑ Normal	☑ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
☑ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	☑ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	☑ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
☑ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
☑ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090919-3

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090919-3

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☐ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☐ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

File Name: fdf 20090919-4

CHECKLIST FOR PHYSICAL EXAMINATION OF FISHES		
Collection Date: 9/19/2009	Exam Date: 9/19/2009	Examined By: DD,RB
Digital Photo Record	Camera: 1	Photo Numbers: 274
Sex: ☐ M ☒ F ☐ Ind		Frozen: ☐ Yes ☐ No
Specimen ID: LPR5Q-MC001		
Tissue Sample ID:		
Tissue Type: ☐ egg tissue ☐ stomach content		Fixative:

EXTERNAL PHYSICAL EXAMINATION		
BODY FORM:	ISTHMUS:	BRONCHIAL CAVITY:
✔ Normal	✔ Normal	✔ Normal
☐ Emaciated	☐ Enlarged	☐ Growths
☐ Truncate	☐ Hemorrhagic	☐ Parasites
☐ Scoliosis	EYES	UROGENITAL OPENING
☐ Lordosis	✔ Normal	✔ Normal
BODY SURFACE	☐ Popeye	☐ Inflamed
✔ Normal	☐ Cloudy cornea	ANUS
☐ Raised scales	☐ Missing	✔ Normal
☐ Swollen	☐ Lens deformed	☐ Inflamed
☐ Lesions	☐ Lens parasites	LESIONS – Location(s)
☐ Excess mucous	☐ Lens cataract	☐ Fins
☐ Reoriented scales	FINS	☐ Head
☐ Growths	✔ Normal	☐ Eyes
☐ Parasites	☐ Frayed – eroded	☐ Mouth
☐ Wounds	☐ Parasites	☐ Peduncle
☐ Wounds - Lamprey	☐ Hemorrhagic	☐ Ventral
LIPS AND JAWS	☐ Gas bubbles	☐ Dorsal
✔ Normal	FINS – ERODED	☐ Lateral
☐ Deformed	☐ Dorsal	
☐ Growths	☐ Pectoral	
SNOUT	☐ Pelvic	
✔ Normal	☐ Anal	
☐ Pugnose (Pughead)	☐ Adipose	
☐ Growths	☐ Caudal	
☐ Abrasions		

File Name: fdf 20090919-4

EXTERNAL PHYSICAL EXAMINATION CONTINUED		
BARBELS	GILLS	BEHAVIOR
☐ Normal	☑ Normal	☐ Gasping
☐ Deformed	☐ Bright Red	☐ Flashing
☐ Missing	☐ Brown	☐ Lethargic
OPERCLE	☐ Gas bubbles	☐ Fin twitching
☑ Normal	☐ Parasites	☐ Convulsions
☐ Incomplete	PSEUDOBRANCH	☐ Head Up – Tail Down
	☑ Normal	☐ Head-tail whirling
	☐ Enlarged	☐ Pectoral fins folded forward
		☐ Belly up
		☐ Loss of balance
		☐ Long axis whirling
OTHER OBSERVATIONS		

File Name: fdf 20090919-4

INTERNAL PHYSICAL EXAMINATION

BODY CAVITY	INTESTINES	OVARIES
☑ Normal	☑ Normal	☐ Immature
☐ Fluid – clear	☐ Flaccid	☐ Mature
☐ Fluid – bloody	☐ Mucous	☐ Ripe
☐ Fluid – cloudy	☑ Feces	☐ Reabsorbing
☐ Adhesions	☐ Fluid	☐ Growth
MESENTERIC FAT	☐ Hemorrhagic	**MUSCLE**
☑ Normal	☐ Parasites	☑ Normal
☐ None	**SPLEEN**	☐ Soft
☐ Excessive	☑ Normal	☐ Parasites
LIVER	☐ Enlarged	**TUMORS**
☑ Normal	☐ Shrunken	☐ Livers
☐ Discolored	☐ Discolored	☐ I Baumann
☐ Yellowish	☐ Ceroid Pigment Centers	☐ II Scale
☐ Pale	**GAS BLADDER**	☐ III
☐ Enlarged	☑ Normal	**PYLORIC CAECA**
☐ Growths	☐ Fluid	☑ Normal
☐ Parasites	☐ Growths	☐ Parasites
GALL BLADDER	**KIDNEY**	**TESTIS**
☐ Empty	☑ Normal	☑ Immature
☑ Full	☐ Pale	☐ Mature
☑ Yellow	☐ Swollen	☐ Ripe
☐ Green	☐ Soft	☐ Constructed
☐ Enlarged	☐ Hemorrhagic	☐ Growth
☐ Parasites	☐ Stones	
STOMACH	☐ Growths	
☑ Normal	☐ Cysts	
☐ Empty	☐ Parasites (urinary bladder)	
☑ Food		
☐ Mucous		
☑ Fluid		
☐ Hemorrhagic		

OTHER OBSERVATIONS

APPENDIX B: FIELD NOTEBOOK ENTRIES

FIELD NOTES FOR AUGUST 10 THROUGH SEPTEMBER 19, 2009

"Rite in the Rain®"

ALL-WEATHER WRITING PAPER

Name _____

_____

Address _____

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Project _____

_____

_____

_____

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE

8/10/09 A. Rodriquez

LPR Tissue Sampling

0600 Arrive at Passaic Yacht Club
Weather: Overcast, Light wind, 70's
Field crew: Thai Do (WW)
Angelita Rodriquez (WW)
Joanna Flower (WW)
Mara Irby (WW)
Mark Padover (ASI), Captain
Matt Shappell (ASI), Captain
Jeff Pydeski (ASI)
(AR) & Rob Crdskey (ASI)

0610 Begin baiting traps

0615 John R (dnr) calls to inform he is on the water heading to Reach 3 (RM 4) & discuss field facility & logistics

0715 Health & Safety Meeting

0720 Meet Ken Jennings (Passaic Yacht Club) to discuss schedule for the week

0730 Load up boats with fishing equipment & supplies

0845 John Rolfe (dnr) calls to inform WW field crew he will be meeting with MPI

0815 Field crew is standing down due to engine problems with the pontoon boat

8/10/09 A. Rodriquez

0830 ASI's boat mechanic is dispatched to the Passaic Yacht Club to resolve the boat's engine failure.
WW field crew suspends field activities until afternoon to take advantage of the 2nd low tide for optimum sampling of the mummichog (mudflat) locations.

0845 Angie (WW) calls John R (dnr) to inform of the change in the field schedule & activities. Depart the Passaic Yacht Club with the 2 field techs & head to the field facility.

0900 Arrive at field facility (WW & ASI), tour the office space, lab area, boat dock.

0915 Begin set up of tissue processing area, review field forms and typical field collection & tissue processing procedure.

0945 John R (dnr) arrives at the field facility to update the status of internet options, phone, refrigerator maintenance & field logistics.

8/10/09 — A. Rodriguez

1015	Jeff & Rob (ASI) depart field facility & will return @ 1130 AM
1030	Angie & Thai update data logger, internet set-up
1100	Contact ASI boat captain for the status of the boat (pontoon) & confirm the field activities on-water will resume activities at noon.
1130	Depart field facility & head to the Passaic Yacht Club
1215	Arrive at the Passaic Yacht Club
1230	Boat Health & Safety Meeting
1235	Depart Passaic Yacht Club for Reach #3 (RM 4)
1315*	Arrive Reach #3 began to deploy crab traps.
1403	Arrive @ LPR3F-A, attempt #1, deploy
1405	Arrive @ LPR3F-B, attempt #1, deploy
1411	Arrive @ LPR3F-C, attempt #1, deploy
1426	Arrive @ LPR3G-A, attempt #1, deploy
1429	Arrive @ LPR3G-B, attempt #1, deploy
1434	Arrive @ LPR3G-C, attempt #1, deploy
1439	Arrive @ LPR3H-A, attempt #1, deploy
1444	Arrive @ LPR3H-B, attempt #1, deploy

8/10/09 — A. Rodriguez

1447	Arrive @ LPR3H-C, attempt #1, deploy
1450	Begin deploying eel traps
1451	Arrive @ LPR3I-A, attempt #1
1453	Arrive @ LPR3I-B, attempt #1
1456	Arrive @ LPR3I-C, attempt #1
1500	Arrive @ LPR3J-A, attempt #1
1504	Arrive @ LPR3J-B, attempt #1
1508	Arrive @ LPR3J-C, attempt #1
1521	Arrive @ LPR3K-A, attempt #1
1524	Arrive @ LPR3K-B, attempt #1
1526	Arrive @ LPR3K-C, attempt #1
1530	Bait & set up trotlines
1606	Begin deploying trotlines (1st set)
1607	Arrive @ LPR3L-A, attempt #1
1615	Arrive @ LPR3L-B, attempt #1
1622	Arrive @ LPR3L-C, attempt #1
1635	Begin deploying gillnets
1631	Arrive @ LPR3M-A, attempt #1
1653	Arrive @ LPR3N-A, attempt #1
1705	Arrive @ LPR3O-A, attempt #1
1715	Bait & set up 2 sets of trotlines
1800	Begin deploying trotlines (2nd set)
1801	Arrive at LPR3P-A, attempt #1
1809	Arrive at LPR3P-B, attempt #1

8/10/09 A. Rodriguez

1813 Arrive at LPR3P-C, attempt #1
1823 Begin deploying trotlines (3rd set)
1824 Arrive at LPR3-Q-A, attempt #1
1828 Arrive at LPR3Q-B, attempt #1
1831 Arrive at LPR3Q-C, attempt #1
1844 Arrive at LPR3~~3~~C-A, attempt #1
location moved to RM 5. Trimble unit did not record coordinates, manually entered

*NOTE: Thai called Lisa Saban (WW, PM) to inform her of the field status for the day, Reach 3 (RM 4~~4~~ to RM 6) was completed. John R (dmi) & MPI provide support & oversight, respectively. Coordinates for LPR3C-A, LPR3C-B, & LPR3C-C will be collected tomorrow 8/11

1909 Arrive at LPR3B-A, attempt #1
1910 Arrive at LPR3B-B, attempt #1
1911 Arrive at LPR3B-C, attempt #1
1916 Arrive at LPR3A-A, attempt #1
1917 Arrive at LPR3A-B, attempt #1
1918 Arrive at LPR3A-C, attempt #1
1921 Head back to the Passaic Yacht Club

08/10/09 A. Rodriguez

1949 Arrive at the Passaic Yacht Club
2000 Depart the Passaic Yacht Club
See pg. 23-24 for habitat notes at each sampling area.

Yacht Pk

8/10/09 A. Rodriguez

0530 Arrive at field facility & load up supplies

0545 Depart for the Passaic Yacht Club

0615 Arrive at Passaic Yacht Club
Weather: Light wind, 70's, overcast
Field crew: Thai Do (WW)
Angelita Rodriguez (WW)
Matt Luxon (WW)
Sarah Flowler (WW)
Matt Shappel (ASI)
Jeff Pydeski (ASI)
Rob Croskey (ASI)
Kirsten Durocher (AECom)
Mike Tedesco (ASI)
Mike Houser (AECom)

0635 Health & Safety Meeting

0655 Depart the Passaic Yacht Club & head to Reach #3

0721 Arrive @ LPR30-A retrieve & begin processing

0730 Re-deploy LPR30-A & John R (dmi), Polly Newbold (ddms), Brian Gillen (NJPi) arrive

0900 Recieve verbal approval from Bergen County Parks to access park land adjacent to the Passaic River.

8/11/09 A. Rodriguez

1044 WW & AECOM field crews agree to exclude fish species collected that are partially eaten or compromised & not be used for chemical analysis. Field crew will note the number of partially eaten (compromised) not retained as part of tissue collection & processing. Metrics will not be recorded.
Contact Passaic Valley Sewerage Commission to inform them about our fish sampling activities

1108 Angie & Matt depart w/ batch of catch for facility.

1400 Completed gear retrieval, and head back to marina. End of field day

TDo

8.11.09

8/12/09 A. Rodriguez

0600 Arrive @ Passaic Yacht Club
Weather: Overcast, light winds, 80's
Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Matt Shappel (ASI) Captain
Mike Telesco (ASI) Captain
Mike Hauser (AECOM)
Kirsten Durocher (AECOM)
Jeff Pydeski (ASI)
Rob Croskey (ASI)
Matt Luxon (WW)
Joanna Flores (WW)
Sarah Flower (WW)
Mara Irby (WW)

0615 Load up boats with coolers & fishing supplies

0645 Health & Safety meeting

0715 Heading to Reach #3, RM 4 to RM 6 working from RM 6 downstream

0720 ASI Pontoon boat experiences a loss in steering & needs to be towed by other vessel to Reach #3

0730 Call John R (Admi) to inform him of the field status

8/12/09 A. Rodriguez

0830 Arrive @ LPR3L to retrieve trotlines

0835 John R (Admi) & Dennis Corelli (MPI) arrive to P/U Joanna, Sarah & Mike to head to LPR3K to retrieve eel traps, crab traps, minnow traps, gillnets & trotlines working downstream to RM 4

1029 Dennis (MPI) begins to observe on the processing boat; review the healthy & safety plan

1125 Location LPR3Q-C2; empty trotline
Location LPR3Q-A2, empty trotline

1220 Location LPR3P-C2, empty trotline

1245 Matt, Thai, Sarah, John & Dennis depart for the field facility with the fish samples to process

1249 Angie, Joanna, Mara, Kristen, Mike & ASI crew head back to Passaic Yacht Club

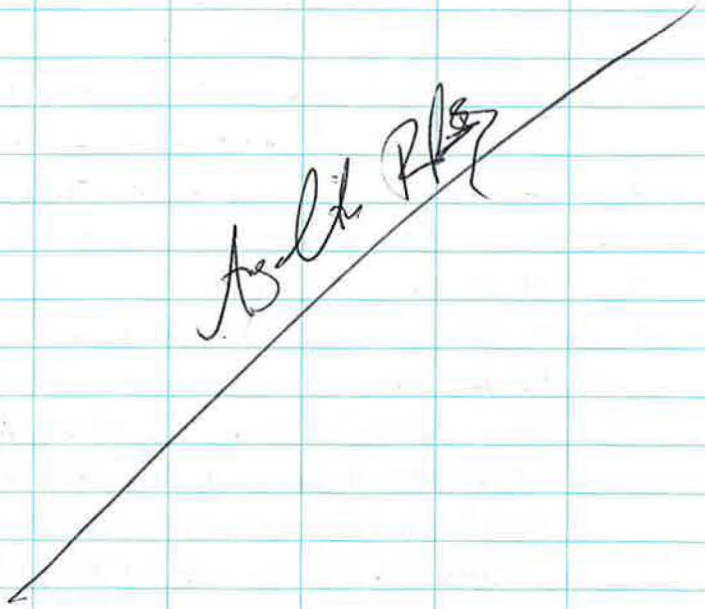
1335 Arrive @ Passaic Yacht Club; WW crew deploys vessels

8/12/09 A. Rodriguez

1345 Depart Passaic Yacht Club & head to the field facility

1410 Arrive @ the field facility & begin to process the fish collected

~~1900~~ 1900 Complete processing fish & mobilization for the next field day. Depart field facility.



8/13/09 A. Rodriguez

0610 Arrive at the Passaic Yacht Club
Weather: Overcast, windy, 70's possible thunderstorms
Field crew: Angelita Rodriguez (AECOM)
Thai Do (WW)
Matt Luxon (AECOM)
Sarah Fowler (WW)
Mara Irby (WW)
Matt Shappell (ASI) Captain
Mike Telesco (ASI) Captain
Jeff Pydeski (ASI)
Rob Croskey (ASI)
Kirsten Durocher (AECOM)

0615 Ken Jennings is contacted to unlock the gate at the Passaic Yacht Club

0720 Ken arrives, field crew unloads fishing supplies & equipment

0745 Health & safety meeting - possible rain therefore the marine weather radio will be monitored as well as the national weather website (NOAA) on land by Tom Dolce (ASI) & keep the field crew updated with the weather

8/13/09 A. Rodriguez

0755 Head to Reach #3 (RM4 to RM6) & meet John R (dmi) & Joanna Florer (aw)

0811 Meet up Joanna & Rob to p/u rain gear & labels

0814 ~~Depart~~ Continue upstream to Reach #3

0815 George Molnar (CDM) EPA oversight arrives to ~~provide~~ meet the field crew, watch sampling activities on the river

1134 ~~0855~~ Stephanie Vaughn (EPA) arrives with John R (dmi) & George (CDM)

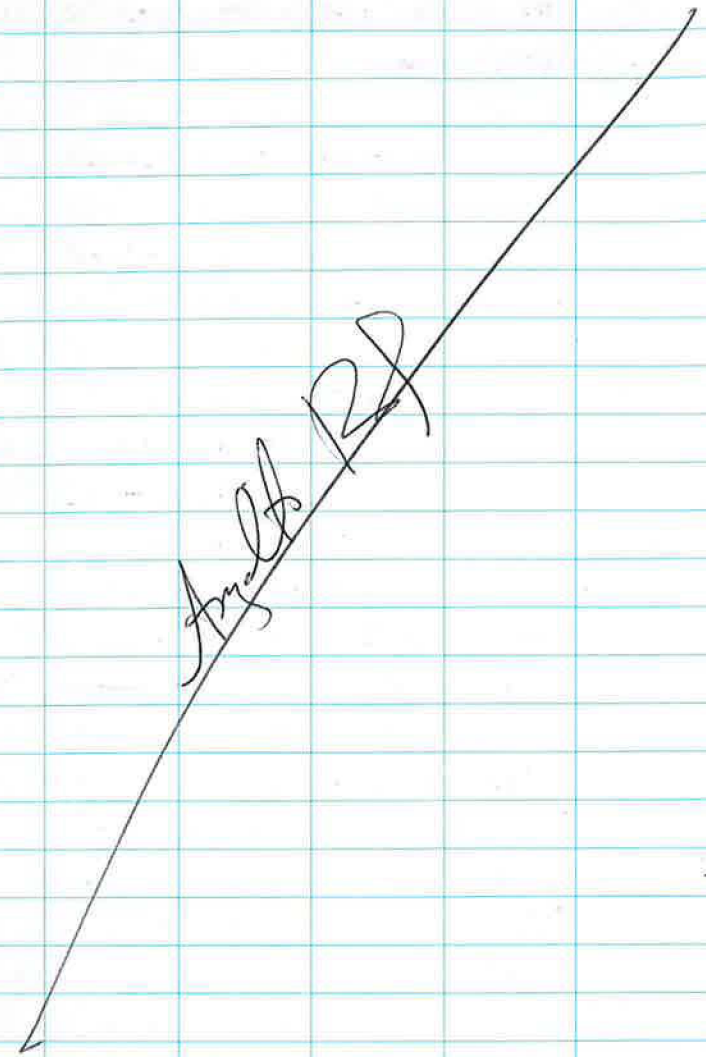
Dennis (MPI) & boat operator arrive to ~~provide~~ for EPA oversight.

1232 Stephanie, John R, George, & Dennis depart for the field facility

~~First day~~ Began using bologna bait in the mummichog traps per Tim Inuzzi (TSI) & replaced all the cheese dough bait with this for all mummichog locations (A, B, C) in Reach #3

8/13/09 A. Rodriguez

1330 Depart the Passaic Yacht Club



8/14/09 A. Rodriguez

0605 Arrive at the ~~field facility~~ AR2 Passaic Yacht Club

Weather: Clear, sunshine, 70's

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Joanna Florer (WW)
Matt Luxon (WW)
Sarah Fowler (WW)
Mara Irby (WW)
Matt Shappell (ASI) Captain
Mike Telesco (ASI) Captain
AR2 Jeff ~~Croskey~~ Pydaski (ASI)
Rob Croskey (ASI)

0615-0635 Load up boats with fish supplies, conduct Health & Safety meeting & discuss the exposure to the sun & warm temps.

0640 Head to Reach #3 (RM 4 to RM 6) & Reach #4 (RM 6 to RM 8)

0710 Working Pontoon departs w/ Matt & Joanna to begin retrieving trotlines & gillnets

0724 Meet with John R (dnr) & Julie Conklin (MPI) EPA oversight to tranfer Thai & Sarah to the Jon to begin retrieving traps

8/14/09 A. Rodriguez

Minnow, eel & crab in Reach #4

0127 Processing boat (Angie, Mara, Rob) begin retrieving traps (eel, minnow crab) in Reach #3

0831 Jon boat (Thai, Sarah, John, Julie) heading back from Reach #4 with fish to process

0842 Jon boat arrives & transfers samples from Reach #4 (White perch, Amer. eel, blue crab) to processing boat & Jon boat departs to p/u traps in Reach #3
Also conduct a health & safety boat meeting with Julie (MP1)

0926 ~~Jon~~ (AR) Working pontoon boat (Joanna, Matt, Jeff, Mike) depart with the (retrieving gillnets) fish samples to the Passaic Yacht Club

0927 Processing boat meets up with the Jon boat to transfer the fish samples (traps) for Reach #3

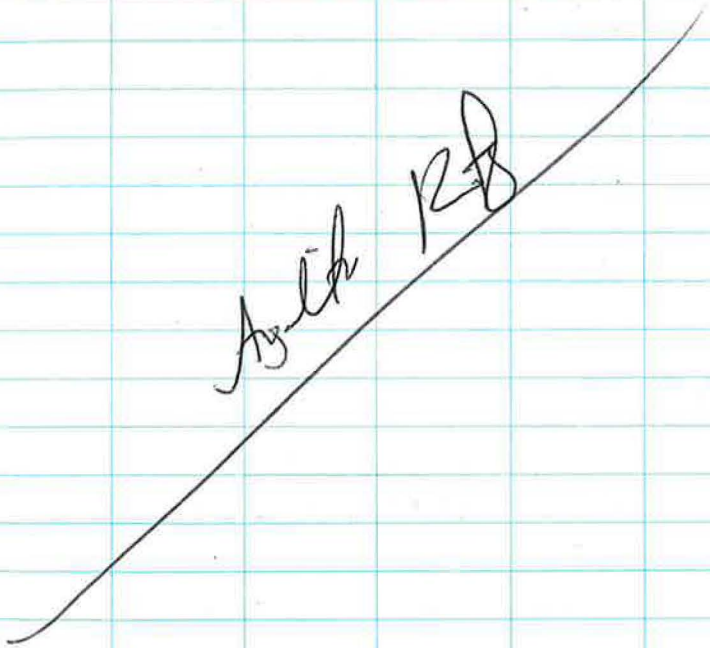
0947 Jon boat (John & Julie) depart & head back to the field facility
Processing boat heads back to the Passaic Yacht Club

8/14/09 A. Rodriguez

1010 Arrive at the Passaic Yacht Club unload fish samples & supplies

1020 Depart (AR) ~~the~~ Passaic Yacht Club & head to the field facility

1045 Arrive @ field facility.



8/15/09 A. Rodriguez

0600 Arrive at the Passaic Yacht Club & load up boat with supplies

0630 Conduct health & safety meeting remind personnel to minimize their contact with the sediment & to rinse off with clean water provided. Sun exposure & warm temperatures are possible - stay hydrated & apply sunscreen

0635 Depart for LPR2C location to recon area for a new sampling area located ~ 1000 yds downstream

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Joanna Flores (WW)
Sarah ~~Flores~~ Fowler (WW)
Matt Luxon (WW)
Mara Irby (WW)
Matt Shappell (ASI) Captain
Mike Telesco (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski (ASI)

Weather: Clear, sunshine, 70's

8/15/09 A. Rodriguez

0650 Scout out ~~Ace~~ revised sampling location LPR2C
695172 N
594211 E
Will revisit at low tide to confirm coordinates & mudflat habitat b/c this is a mummichog location

0652 Head to Reach #3 (RM 4 to RM6) most upstream location to begin sampling

0659 Contact John R (dmi) to check his status & ETA

0707 Processing boat begins picking up traps in Reach #3 & pontoon boat begin picking up gillnets & trotlines.

0723 John R (dmi), Julie Conklin (MPI) arrive to p/u Thai & Sarah & depart for Reach #4 to retrieve traps

0839 Re-visit revised location @ LPR2C @ low tide & verify mudflat ~~area~~ area:
695228 N 594612 E

0845 Receive fish samples collected in Reach #4 (RM6 to RM8)

0935 Transfer fish samples collected in Reach #3 & #4 to pontoon boat

8/15/09 A. Rodriguez

0939 Pontoon boat (Joanna, ~~Tho~~ Matt) depart w/samples to the field facility

*NOTE: Cross-reference point at the Passaic Yacht Club: ~~6488108~~ 690818N
602685E

0945 Processing boat (Mara, Angie) P/U Thai & Serah & head to the Passaic Yacht Club; John R (dmi) & Julie (MPI) depart for the field facility

1010 Arrive at the Passaic Yacht Club unload field supplies & record coordinates of the selected cross-reference point *(flag pole) at the Passaic Yacht Club

1030 Depart for the field facility

1045 Arrive at the field facility to begin processing fish

8/17/09 A. Rodriguez

Habitat Notes for Reach III

LPR3F: Large junks of cement, exposed mud, some overhanging veg, deeper water, east bank

LPR3G: Wooden bulk head, deeper water, no overhanging vegetation, west bank

LPR3H: Rip rap, pilings, some veg, deep water, east bank

LPR3I: Rip rap, small exposed mudflat area, some overhanging veg, deep water, west bank

LPR3J: Wooden bulk head, deeper water, no overhanging vegetation, east bank

LPR3K: Rip rap, no overhanging veg, wood pilings, deep water, west bank

LPR3L: Steel bulk head, deeper waters, minimal overhanging veg, east bank

LPR3M: mid-channel deep water, vegetation along banks

LPR3N: mid-channel deep water, vegetation along banks

LPR3O: Mid-channel deep water, vegetation along banks

LPR3P: wooden bulkhead, deeper water, west bank, no overhanging vegetation

LPR3Q: Steel bulk head, no overhanging veg. west bank, deeper water

8/17/09 A. Rodriguez

LPR3A - Eastside bank is mudflat area, shallow water, aquatic vegetation nearby.
LPR3B - Eastside bank is mudflat area, shallow with rip rap on bank
LPR3C - West side bank is mudflat area shallow, surrounded by concrete wall.

Habitat Notes for Reach #4
LPR4B - shallow mudflat, east bank riprap & overhanging vegetation along the beach
LPR4C - Steel bulkhead, no vegetation, shallow mudflat on west bank
LPR4D - East bank, shallow mudflat, no vegetation
LPR4F - Concrete walls, no vegetation west bank
LPR4G - East bank w/rip rap & over-hanging vegetation
LPR4I & LPR4H - East bank w/wood bulkhead w/riprap & overhanging vegetation
LPR4J - East bank w/rip rap & over-hanging vegetation
LPR4K - West bank w/wood bulkhead Overhanging vegetation

8/17/09 A. Rodriguez

0600 Arrive at the field facility & load up cars w/ field supplies
0615 Record coordinates for the flag pole) Selected cross-~~for~~ reference point:
733754 N 597693 E
Weather. Clear, warm temps (70s), sunshine
Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Matt Luxon (WW)
Mara Irby (WW)
Jennifer Parker (WW), Chemist
Sarah ~~Fowler~~ Fowler (WW)
Matt Shappel (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff ~~Pelyeski~~ Pydeski (ASI)
0645 John R (dmi) arrives to Rutherford facility dock
0646 Dennis Corelli (MPI) & David Foster (MPI) EPA oversight have arrived & ASI (Matt & Rob) depart to buy gas for the boats
0658 ASI returns w/gas for the ~~boat~~ boats

8/17/09 A. Rodriguez

0700 Conduct Health & Safety meeting be aware of the warm temps & sun exposure

0720 Depart Rutherford floating dock & head to Reach #4 & Reach #5

0730 Observe 7 people rowing on the river blw RM 12.5 & RM 8

0745 Arrive @ Reach #5, De Jessa Bridge LPR5E- Westside bank is vegetated with shrubs & trees & has some rip rap; deep water located upstream of the De Jessa Bridge

0820 LPR5F- Eastside bank is shaded with overhanging shrubs, trees with rip rap; deeper water, located upstream of the De Jessa Bridge

0904 LPR5G Eastside bank is shaded with overhanging trees, shrubs & rip raps cover the shoreline; deeper water, located upstream of the fire department; wading birds observed

0916 LPR5H Westside bank is adjacent to McCarter Hwy with overhanging trees & shrubs on top of a concrete bulkhead shading portions of the river.

0940 Heading to Reach #4 to begin deploying trotlines & gillnets

8/17/09 A. Rodriguez

1004 LPR4L Eastside bank is a wooden bulkhead covered with riprap, debris, trees & shrubs. located upstream from old railroad bridge; deeper water

1017 LPR4M Westside bank is a wooden bulkhead with conferifous plants & shrubs on top & several pipes observed that terminate at the river.

1134 LPR4N Eastside bank is mudflat (small area), rip rap; large woody debris, vegetated with shrubs & trees; wading birds observed

1157 LPR4O Westside bank is covered with large woody debris, rip rap, mud, trees & shrubs; submerged pilings & concrete pipe observed that terminates at the river

1210 LPR4P Eastside bank is rocky with large woody debris, cobbles, overhanging trees

1226 LPR4Q Eastside bank is rip rap, large trees & shrubs providing shade, large woody debris; located upstream of the Conrail Bridge

1255 Bait trotlines for Reach #5

8/17/09 A. Rodriguez

~~1510~~ 1310 LPR5A-J-A Eastside bank is mud, gravel, some rip rap, aquatic grass, shrubs trees on the bank

~~1520~~ 1320 LPR5I Westside bank is modified concrete wall with a small mud flat area, debris & medium trees; deep water

~~1536~~ 1336 Arrive @ the Rutherford dock

1430 collect coordinates for cross-reference point at the end of the day
733754 N
697695 E

LPR5L & LPR5K-East bank rip rap & overhanging trees along the bank

LPR5M & LPR5N West side concrete wall some vegetation overhanging the wall

LPR5O-West side concrete wall & no vegetation

LPR5P-West side concrete wall w/ overhanging vegetation

LPR5A-Adjacent to the confluence of the Second River on the west side, lots of cobbles and large rocks, shallow

8/17/09 A. Rodriguez

LPR5B-East side shallow mudflat w/rip rap & overhanging vegetation along the bank

LPR5C-East side shallow mudflat w/only vegetation above the bank no overhanging vegetation.

Baited all minnow traps w/sardines

Angela R

08.18.09 — A. Rodriguez

0610 Arrive at the field facility, load up supplies

0615 Reference location - field facility flagpole
733754N 597693E
Weather: Clear, sunshine, 70's
Field Crew: Angelita Rodriguez (WW)
Thai Do (WW), Daniel Diedrich (WW)
Matt Luxon (WW)
Mara Irby (WW)
Sarah Fowler (WW)
Jennifer Parker (WW)
Matt Shappell (ASI) Captain
Jeff Clement (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski (ASI)

0630 Arrive at the Rutherford dock

0635 George Molnar (CDM), EPA oversight in-training arrives

0640 Dennis Corelli (MPI) EPA oversight arrives & Jeff C & Jeff P (ASI) crew departs to purchase bait

0705 ASI crew returns with the bait for re-setting traps & lines

8.18.09 — A. Rodriguez

706 Conduct Health & Safety briefing: sun exposure, slips, trips, falls, hooks, wet surfaces; stay hydrated.

0715 Head to Reach #5 (RM 6 to RM 8)
Processing boat - Angie, Sarah, Jennifer, & Mara, Matt S (Captain)
Retrieval Pontoon boat - Matt, Rob, Jeff, Jeff C (Captain)
Jon boat: John R, Thai, Daniel, George (CDM), Dennis (MPI)
Jon boat will start in Reach #4 (RM 6 to RM 8)

0715-0740 Observe 6 rowers on the river from RM 12.5 to RM 8

0743 Arrive at LPR5E to begin pulling gillnets & trotlines

1000 Complete retrieval of all gillnets & trotlines in Reach #5 - head down to Reach #4 (deployment)

1040 Begin retrieving & re-deploying of gillnets & trotlines in Reach #4

1258 Complete retrieving & re-deploying gillnets & trotlines in Reach #4; head back to Rutherford dock

8.18.09 A. Rodriguez

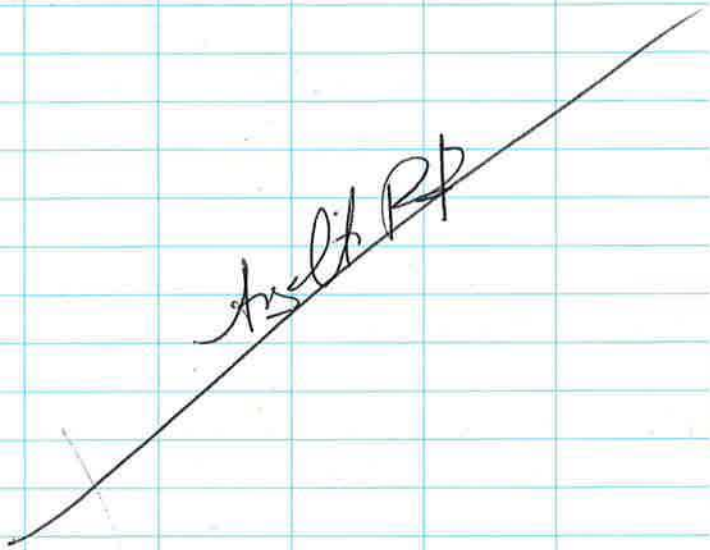
1310 Return to the Rutherford dock & unload samples & supplies

1636 Reference Location verified

Serial # G8XH10 733755 N 597694E

Serial # G8XH5 733752 N 597691E

Serial # G8XH6 733752 N 597692E



8/19/09 A. Rodriguez

0800 Arrive at the field facility

Reference location flag pole

G8XH6 733755N 597692E

G8XH5 733753N 597691E

Weather: Clear, Sunshine, 70s+

Field crew: Angelita Rodriguez (WW)
Thai Po (WW)
Sarah Fowler (WW)
Mara Irby (WW)
Jennifer Parker (WW)
Daniel Diedrich (WW)
Matt Luxon (WW)
Jeff Clemens (ASI) Cap
Matt Shappell (ASI)
Jeff Pydeski (ASI)
Rob Croskey (ASI)

Brian Gillen (EPA oversight) will be on the Jon boat

0830 Conduct health & safety meeting sun & heat exposure will be the main concern

Head to Reach #5 RM 8 to RM 10

Jon boat: Thai, Matt L, Brian & John R retrieving traps in Reach # 4 & Reach #5 except mummichog traps

8/19/09 A. Rodriguez

Processing (AR) ~~Pontoon~~ boat: Angie, Sarah, Jennifer, Matt S.

Working Pontoon boat: Daniel, Mara, Jeff, Rob & Jeff C.

1145 LPR5 I Gillnet was destroyed on 8/18/09 & Crew is waiting for a replacement net. to arrive some time this week.

1205 P/U mummichog baited traps (bologna) from the Jon boat & head downstream to Reach #2 (RM 2 to RM 4) to deploy test traps in deeper water adjacent to mudflat areas ~~per~~ agreed upon w/TSI & EPA

1230 Test Trap #1: ~ RM 2.2 Westside
695513 N 596214 E
Water depth = (AR) ~~feet~~ 10.6 ft
Test Trap #2: ~ RM 2.2 Westside
695507 N 596132 E
Water depth = 11.9 ft
Habitat notes
Test #1 & Test #2 sampling locations are located in deeper water (>10ft) upstream of the 95 Bridge. Shoreline west side is a mudflat with vegetation & trees present on the bank.

8/19/09 A. Rodriguez

1340 ~~Jon~~ (AR) Jon boat arrives with Thai, Matt L, Brian (MPI), John R (dwi) EPA oversight to pick up buoys & lines

(AR) ~~1410~~ 1410 Arrive at the Rutherford dock & ~~unload~~ ~~up~~ samples & field supplies from processing boat & pontoon boat

1432 Added new location in Reach 5 @ LPR5C where the only mummichog has been collected – LPR5C – x the trap consists of 5 (mummichog) minnow traps tied together in a line & deployed in the same area as LPR5C

1655 Reference Location verification

Serial # G8XH10	733755.7 N	597694 E
Serial # G8XH5	733757 N	597687 E
Serial # G8XH6	733758 N	597696 E

8/20/09 A. Rodriguez

0910 Arrive at the field facility*

0950 Reference location verification

Serial # G8XH6 733754 N 597693 E

Serial # G8XH5 733753 N 597692 E

Serial # G8XH10 733753 N 597692 E

*NOTE Thai & Angie participate on a conference call to discuss mummichog locations & sampling strategy

0945-1000 Load up all coolers & supplies for fish sampling

Weather: Clear, sunshine, 80's

1030 Conduct Health & Safety meeting - possible sun & heat exposure & rainshowers WW office & ASI office monitoring weather, be aware of boat pinch points, wet surfaces, locks, debris in the water.

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Daniel Diedrich (WW)
Mara Irby (WW)
Matt Luxon (WW)
Sarah Fowler (WW)
Matt Shappell (ASI) Captain
Jeff Clemens (ASI) Captain

8/20/09 A. Rodriguez

Field crew cont'd: Jeff Pydeski (ASI)
Mike Telesco (ASI)
Brian Gillen (MPI) & boat operator (MA)
EPA oversight

1040 Head to Reach #5 (RM 8 to RM 9.2) to retrieve & re-deploy trotlines & gillnets

1245 Complete sampling in Reach #5

1300 Head to Reach #4 RM 6 to RM 8 & observe 2 crew boats plus a support boat with 7 people plus one crew member swimming in the Passaic River @ approximately RM 9.5

1313 Brian (MPI) calls b/c he wants to observe the test mummichog location with traps set (on 8/19/09) yesterday in deeper water above RM 2
WW field crew will meet him near RM 2

1340 Arrive at Test mummichog location (~RM 2.2, westside) but can't find traps. They may have been taken by a strong current.

1350 Brian (MPI) arrives to make observations of the habitat area & agree WW will return @ low tide (~1500) to look for traps

8/20/09 A. Rodriguez

Test mummichog location cont'd: Brian (MPI) agrees the habitat area is suitable for mummichog. MPI will meet WW field crew C ~ 1530 closer time to low tide to retrieve traps.

1515 LPR4Q-~~B3~~ (M2) ~~BC~~ B3 trotline b/c it may have been taken by a strong current. WW field crew will look for it again tomorrow (8/21).

Pontoon boat: Sarah, Daniel, Matt S, Jeff P & Jeff C head back to the Rutherford dock w/ all the fish samples.

Processing boat: Angelik & Mara & Mike head to RM 2 test location for mummichog to retrieve traps.

1530 Arrive @ test location (~ RM 2) & still can't find the minnow traps; Brian (MPI) present to observe the search & it is possible the strong current took the traps downstream.

1446 Lose trotline LPR4Q-B4 due to strong current

1600 Arrive at the Rutherford dock

1946 Reference Location Verification A. Rodriguez

Serial # G8XH6 733753 (M1) N 597691 E

Serial # G8XH5 733753 N 597693 E

Serial # G8XH10 733754 N 597693 E

8/21/09 A. Rodriguez

1020 Arrive at the field facility to load up coolers & supplies
Reference location Check
G8XH6 733758 N 597691E
G8XH5 733755 N 597693E
G8XH10 733760 N 597693E
Weather: Overcast, wind, 80's

1100 Field Crew: Angelita Rodriguez (WW)
Thai Do (WW)
Matt Luxon (WW)
Mara Irby (WW)
Sarah Fowler (WW)
Daniel Diedrich (WW)
Matt Shappell (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Dennis Corelli (MPI) EPA oversight

1115 Conduct the Health & Safety meeting possible thunderstorms & strong weather so all boats will meet at the Rowing Club floating dock @ River Bank South Area Bergen County if adverse weather approaches. (AR) Boats will be on Chanel 13

8/21/09 A. Rodriguez

1145 Head down to Reach 5 & Reach 4
Processing boat - Angie, Matt L, Matt S, & Mike Hauser (AECOM)
Working Pontoon boat - Sarah, Daniel, Jeff P, Rob, & Jeff C
Jon boat - Thai, Mara, John (R)

1251 Seacch for trotline @ LPR5A-B4 but can't find, possibly because of strong current, tidal influence & debris. WW field crew will try to locate it closer to low tide.

1345 Arrive @ Chris Colliers place of business & request to take photos of the damaged caused by the fish equipment. Mr. Collier reported that it wasn't the fish equipment (AR) ~~dama~~ damaging the props or boats but he was upset about the wakes given off by the boats on the river. We re-assured him that all our boat captains (ASI & dmi) are aware of the No WAKE rules & regulations & will continue to make an effort to follow these regulations while sampling on the river. He confirmed he did not have any damage to his boats or props for us to document & thanked us for stopping by to address the issue.

8/21/09 A. Rodriguez

1420 Head to test locations w/ mummichog traps @ ~ RM 2 to locate & retrieve traps placed on 8/19/09 but still can't find them. They are lost. Mummichog traps will not be deployed in deeper water adjacent to mud flats b/c the current is too strong & carries the gear away.

1434 Contact Lisa Saban to discuss the conversation with Mr. Collier see pg. 41. Angie will scan & send copy of the field notes (conversation) latter this afternoon.

1535 Contact Thais (Joh) boat to inform crew to start heading back to the Rutherford dock b/c the thunderstorm is quickly approaching the river. All boats are getting off the water.

1558 Arrive at the dock & unload all samples & gear & head to field facility.

8/21/09 A. Rodriguez

DANIEL DIEDRICH
MATT LUXON
17:29

Reference Coordinates

G8XHG	733748	N
	597689	E
G8XH10	733751	N
	597691	E
G8XH5	733747	N
	597687	E

Angie R.A.

8/22/09 A. Rodriquez

0520 Arrive at the field facility & load up samples

0530 Reference Location Check

G8XH6 733755N 597693E

G8XH10 733755N 597695E

G8XH5 733753N 597693E

0550 Matt Shappell (ASI) calls to inform that the ASI crew is running late & there may be a delay in the field activities due to thunderstorms. WW field crew checks the NOAA weather that states heavy rain forecasted for the morning & not severe thunderstorms.

Weather: Precipitation, 70's, overcast

0641 ASI crew arrives to the field dock Julie Conklin & Dave Foster EPA oversight will be following the processing & pontoon boat to get location information for the trotlines & gillnets.

0646 Conduct a health & safety meeting watch out for any thunderstorms, selected emergency ~~evacation via~~ water is the Rowing ~~Club~~ Club dock @ the River Bank south Area Bergen County Park

8/22/09 A. Rodriquez

0651 Head to Reach 4 & Reach 5 to retrieve all fishing gear.

Pontoon Boat: Sarah, Daniel, Rob, Jeff P. & Jeff C.

Processing Boat: Matt, Mara, Angie & Matt S.

Jon Boat: Thai & John R (Admin)

0951 Complete retrieval of all gear in Reach 4 & Reach 5, with exception of the lost gear

1010 Arrive @ the Rutherford dock & unload all samples & supplies

1107 Reference Location Verification

G8XH5 733753N 597692E

G8XH6 733755N 597692E

G8XH10 733755N 597695E

Angelo [signature]

8/24/09 A. Rodriguez

0520 Arrive at the field facility to load up supplies
Reference Check

0538 G8XH5 733754N 597693E
G8XH6 733754N 597692E
G8XH10 733754N 597693E

0605 Arrive @ Rutherford dock to load up the boats, Julie Conklin (MPI) EPA oversight arrives

0615 ASI & dmi arrive & all the boats get loaded up w/ gear & supplies
Weather: Partly cloudy, light wind, 70s
Field Crew Angelita Rodriguez (ww)
Chelsea Lorenz (ww)
Daniel Diedrich (ww)
Thai Do (ww)
Jeff Clemens (ASI) Captain
Matt Shappell (ASI) Captain
Rob Croskey (ASI)
Jeff Rydiski (ASI)
John Rolfe (dmi)

0630 Conduct Health & safety meeting

0635 - 0745 Rob & Jeff P (ASI) leave to purchase supplies & return

8/24/09 A. Rodriguez

0750 Head to Reach 7 RM 12 to RM 14 to begin deploying gillnets & trotlines also Reach 6 RM 10 to RM 12

LPR7L, Gillnet, Eastside bank has a rusted remains of an old dock, gravel & cobbles, a wooden bulkhead & overhanging trees, deeper water

LPR7N, Trotlines, Westside bank is wooden bulkhead with overhanging trees, deeper water

LPR7O, Trotlines, Eastside bank is a concrete wall with overhanging trees & large rocks, deeper water, downstream of small trib (unknown)

LPR7P, Trotlines, Westside bank is rocky with large woody debris & overhanging trees, deep water downstream of bridge

LPR7Q, Trotlines, Westside bank is shaded with trees, ~~gravel~~, rocks & large woody debris, deeper water

LPR7M, Gillnet, Westside bank is steep, rocky with large woody debris, overhanging trees; deeper water

LPR6O, Trotlines, Eastside bank is rocky with large overhanging trees, deep hole of deep water

48

8/24/04 A. Rodriguez

LPR6L, Gillnet, Eastside bank is rocky w/ large woody debris, overhanging trees; deeper water, ~~downstream~~ upstream of bridge Conrail - Lyndhurst

LPR6P, Trotlines, Eastside bank is large woody debris, overhanging trees, deeper water; upstream of Conrail - Lyndhurst draw bridge

LPR6M, Gillnet, Westside bank is large woody debris, overhanging trees, deep hole w/ deeper water, downstream of the Third River confluence

LPR6N, Gillnet, Westside bank is a concrete wall adjacent to McCarter Hwy with vegetation & overhanging trees

LPR6Q, Trotlines, Westside bank is a concrete wall adj. to McCarter Hwy with vegetation

1220-1445 Head off the water to wait for fishing supplies (i.e., traps, bricks, line) to arrive from ASI to resume sampling activities

LPR6R, Trotlines, East bank is riprap with overhanging trees, deeper water, downstream of 3rd River

LPR6S, Trotlines West bank

1553 Angie puts Daniel on portoon. LPR6S habitat is rock wall with sparse overhanging trees.

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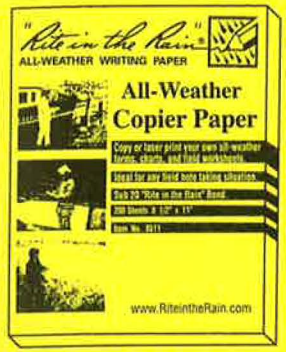

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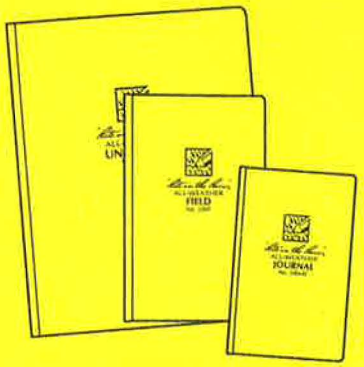
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PAGE	REFERENCE	DATE

8/24/09 A. Rodriguez

LPR7D, East bank shallow mud-flat w/rip rap & overhanging trees
LPR7F, East bank w/rip rap & over-hanging trees
LPR7I, East bank with wood bulkhead rip rap & overhanging trees
LPR7E, West bank w/rip rap & overhanging trees
LPR7G, Same as above
LPR7J, West bank w/ word bulk-head & over hanging vegetation
LPR7C, West bank w/concrete wall & overhanging trees
LPR7B, East bank w/rip rap, over-hanging vegetation, shallow mud-flat w/gravel
LPR7A, West bank over hanging trees & rip rap
LPR7H, Same as above
LPR7K, Same as above
LPR6A, East bank is a shallow mudflat w/gravel, overhanging trees & vegetation
LPR6F, Same as above
LPR6I, Same as above
LPR6B, Same as above

8/24/09 A. Rodriguez

LPR6G West bank, overhanging trees & vegetation, concrete wall, rip rap
LPR6J, same as above
LPR6C, West bank, just below 3rd River confluence, concrete wall overhanging vegetation
LPR6D, West bank shallow mudflat w/overhanging vegetation & trees
LPR6H, West bank shallow mudflat just S of Conrail - Lyndhurst railroad bridge
LPR6K, West bank shallow mudflat just N of Conrail - Lyndhurst railroad bridge
LPR6E, West bank shallow mud-flat w/concrete wall, overhanging trees
1730 Return to Rutherford dock after completion of deploying all gear in Reach 6 & Reach 7
1755 Reference Coordinate Verification
1802 GIS REFERENCE POINT DD, CL

G8X1+5	N 722971	E 592518
G8X1+10	N 733753	E 597692
G8X1+6	N 730094	E 596330

(POOR SATELLITE RECEPTION

8/25/09 A. Rodriguez

0520 Arrive @ the field facility to load up ~~samples~~ supplies

Reference location Check

G8XH5	733754N	597693E
G8XH6	733753N	597697E
G8XH10	733752N	597692E

Weather: Clear, light wind, 70s

0600 Arrive @ Rutherford dock & load up boats w/supplies

Field crew: Angelite Rodriguez (WW)
Chelsea Lorenz (WW)
Daniel Diedrich (WW)
Rick Berg (WW)
Shannon Kutka (WW)
Thai Do (WW)
Matt Shappell (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski (ASI)
John Rolfe (dwr) + George Pfeiffer

EPA oversight: Julie Conklin (NHP)
George Molnar (CDM)
Sharon Budney (CDM)

8/25/09 A. Rodriguez

0630 Conduct Health & Safety

0645 (#2) ~~Arrive~~ Head to Reach 6 (RM 10-12) & Reach 7 (RM 12-14)
Pontoon boat: Daniel, Rick, Jeff P, Rob & Jeff C, George (CDM)
Processing boat: Shannon, Angie, Julie (CDM), Matt
Jon boat: John (dmi), Sharon (CDM) Thai & Chelsea

1209 Complete ~~HH SP~~ (#2) retrieving gillnets, traps & trotlines in Reach 6 & Reach 7

1230 Off load fish samples & supplies @ the Rutherford dock

1330 Electroshocking crew return to boat dock - Pontoon boat
Crew: Angelita Rodriguez } Windward
Shannon Katka
Jeff C } ASI
Jeff P
Rob
Matt

Jon Boat: John (dmi), Julie (NPI), Sharon, ~~Steve~~ (#2) (CDM), George (CDM)

Weather: warm, overcast / some clouds light breeze

8/25/09 S. Katka

1340 Conduct Health + Safety Briefing on use of electroshocking on boat

1355 Reach 7 backpack electroshocking
LPR-7 - attempt location #1
0.18 salinity
371 conductivity (ms/cm)
25.3°C temp
E side bank approx. RM 13.8
Water temp > 18°C

1405 Reach 7 - attempt location # 2
0.18 salinity
373 conductivity
25.7°C temp.
W side bank approx RM 13.6

** Water temperature exceeds * temperature limit (18°C) specified in QAPP for backpack electroshocking so electroshocking not possible

1408 Reach 7 - attempt. location # 3
0.18 salinity
371 conductivity
25.58° temp.
E bank approx. RM 13.2
upstream of bridge temp > 18°C

8/25/09. S Kattau

1412 Reach 7 - attempt #4
0.18 salinity
368 conductivity
25.3° temp
location - W side bank approx. RM 12.4
temp >18°C

1423 Reach 6 - attempt #1
0.18 salinity
369 conductivity
25.6° temp
location: E bank at approx. RM 10.7
temp >18°C

1426 Reach 6 - attempt #2
0.18 salinity
371 conductivity
25.59 temp
location: W bank above 3rd river confluence at approx. RM 11.3
temp >18°C

1429 Reach 6 - attempt #3
0.18 salinity
372 conductivity
25.18° temp

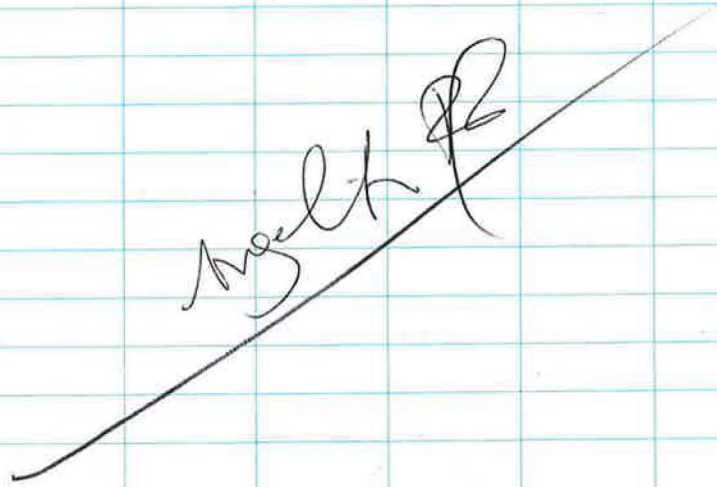
8/25/09 S Kattau

Reach 6 - attempt #3 cont'd
location: E bank, approx. RM 11.7
under bridge - in shade
temp >°C

1440 Return to Rutherford dock & head to field facility

1808 Reference location verification

G8XH5	733757N	597683E
G8XH10	733759N	597692E
G8XH6	733757N	597696E



8/26/09 A. Rodriguez

0520 Arrive at the field facility to load up supplies

0530 Reference location verification:

G8XH6 733758N 597693E

G8XH5 733752N 597694E

G8XH10 733756N 597~~463~~693 (AR)

0600 Arrive @ Rutherford dock to offload coolers & supplies

Weather: Partly cloudy, 70's

Field crew: Angelita Rodriguez (WW)

Thai Do (WW)

Chelsea Lorenz (WW)

Daniel Diedrich (WW)

Rick Berg (WW)

Jeff Clemens (ASI) Captain

Rob Croskey (ASI)

Matt Shappell (ASI) Captain

Jeff Pydeski (ASI)

EPA oversight: Brian Gillen (MPI)

CPG oversight: John Rolfe (dmi)

HHRA oversight: Kristen Durocher (AECOM)

0632 John R informed Thai (WW) that Bill & Rob (dmi) directed WW to electrofish in Reach 6 & Reach 7 even ~~though~~ (AR) if the water temperature exceeds 18°C per the QAPP

8/26/09 A. Rodriguez

WW field crew will electrofish later this afternoon after recording water temps, salinity & conductivity; a protocol modification form will be completed

0645 Conduct a Health & Safety meeting & head to Reach 6

Reach 6

0705 Backpack electrofishing location #1

Salinity (ppt) 0.19

Temp (AR) ~~(mS/cm)~~ (°C) 24.85

Cond (AR) (~~°C~~) (mS/cm) 397

West bank approx. 10.5 RM

Backpack electrofishing location #2

Salinity (ppt) 0.19

Temp (°C) 24.90

Cond (mS/cm) 392

East bank upstream of bridge ~10.3 RM

1000 Contact Lisa Sabar (WW) to discuss electrofishing protocol in warmer water temps; Lisa advises not to electrofish until further discussion w/ EPA & dmi

8/26/09 A. Rodriguez

1006 John R (dive) arrives with camera crew to offload gloves to the processing boat

1100 Complete retrieving/deploying gear in Reach 6 & Reach 7; return to Rutherford dock unload samples & head back to the field facility

1200 Complete retrieving/deploying traps in Reach 6 & Reach 7, Thai & Chelsea (WW) return to dock & head to field facility

1644 Reference location verification

G8XH5	733755N	597693E
G8XH6	733755N	597693E
G8XH10	733755N	597693E

Angelita Rd

8/27/09 A. Rodriguez

0520 Arrive to the field facility & Load up supplies

0523 Reference location Verification

G8XH5	733760N	597693E
G8XH10	733752N	597693E
G8XH6	733752N	597693E

0600 Arrive @ the Rutherford dock to load up supplies onto boats

Weather: Overcast, light wind, 70s, cooler

Field Crew: Angelita Rodriguez (WW)
Thai Do (WW)
Rick Berg (WW)
Chelsea Lorenz (WW)
Shannon Katka (WW)
Daniel Diedrich (WW)
Matt Shappell (CASI) Captain
Jeff Clemens (CASI) Captain
Rob Croskey (CASI)
Jeff Rydelski (CASI)

EPA oversight: Brian Gillen (MFI)
HHRA oversight: Kristen Durocher (AECOM)
dmi oversight: John Rolfe

8/27/09 A. Rodriguez

0624 Conduct Health & Safety meeting

0626 Head down to Reach 6 to begin sampling

1000 Complete sampling in Reach 6; Thai, Daniel & Rick head off water to begin fish processing

1015 Chelsea Shannon & Angie continue to complete sampling in Reach 7

1115 Chelsea heads off water w/ Reach 7 fish samples

1138 YSI 63 meter Calibration

Conductivity (mS/cm) 14.13°C

Temperature 25.7°C

Standard Solution: Pine Environmental Lot #6909 Exp. Mar 2, 2010

Model #63-10

Field Crew: Angelita Rodriguez (WW)

Shannon Katka (WW)

Rob Croskey (ASI)

Jeff Rydeski (ASI)

Jeff Clemens (ASI)

Electrofisher Unit: Smith Root LR-24

Serial # ~~FSS-063~~ AR D01003

AR ~~Certifi~~ Targeting areas w/ potential fish habitat & shocking inward toward the shore in a parallel line; shocking under overhanging trees

8/27/09 A. Rodriguez

LPR7R, Attempt # Electrofishing ~100 ft

West bank rocky, overhanging trees

head downstream

Cond (mS/cm) ~~.4~~, ~~400 µS/cm~~ AR 384

Salinity (ppt) .20

Temp 24.2 °C AR

Water depth = ~~6.11~~ 6.9 ft

Freq = 60 hertz

Voltage = 400 V

Duty Cycle = 25%

Reduced electrofisher unit to 200 V

message: Inverter Overload possibly due to water temp > 18°C

1222 Begin electrofishing, Pass #1

1225 Stop shocking

1227 Pass #2, Electrofishing

1232 Stop shocking

734601 N - location coordinates

597134 E (mid-point of shocking)

collected one white sucker.

8/27/09 A. Rodriguez

LPR7S, Attempt #1 Electrofishing ~ 100 ft
East bank rip rap w/ overhanging trees, start @ concrete wall deeper water; head downstream
Cond (ms/cm) = 384.1
Salinity (ppt) = 0.2
Temp (°C) = 24.2
Water depth = 13.6 ft
Freq = 60 hertz
Voltage = ~~400~~ 200 (AV)
Duty cycle = 25%

1255 Begin shocking, ~~Attempt~~ Pass (AP) #1
1257 Stop shocking
1258 Begin shocking, ~~Attempt~~ Pass (AP) #2
1259 Stop shocking

location: 734378 N
597286 E
mid-sampling line

8/27/09 A. Rodriguez

1312 LPR7T, Attempt #1 Electrofishing ~ 100 ft
East bank downstream of Rutherford dock, ~~up~~ downstream of bridge
rocky shore under bridge & overhanging trees beyond the bridge
Cond (ms/cm) = 390.7
Salinity (ppt) = 0.2
Temp (°C) = 24.9
Freq = 60 Hz
Voltage = 200
Duty cycle = 25%
1315 Begin shocking Pass #1
1318 Stop shocking Pass #1
1319 Begin shocking Pass #2
1323 Stop shocking Pass #2

water depth = 7.6 ft

location = 731562 N
596542 E
mid-sampling line

8/27/09 A. Rodriguez

1330 LPR7U, Attempt #1 Electrofishing ~100ft East bank some rocks on shoreline, over-hanging trees, head downstream of white fence (residential property); shallow water
Cond (ms/cm) = 395.1
Salinity (ppt) = 0.2
Temp (°C) = 25
Freq = 60 Hz
Voltage = 200 ✓
Duty cycle = 25%
Water depth = 3.7 ft
1335 Begin shocking, Pass #1
1342 Stop shocking, Pass #1
1343 Begin shocking, Pass #2
Overloaded message on electrofisher unit
1344 stop shocking & reduce voltage to 130 V
1344 Begin shocking Pass #2 again
1348 Stop shocking, Pass #2

Collect 2 pumpkin seed

728919 N - location mid point
596933 E sampling

8/27/09 A. Rodriguez

1400 LPR6T, Attempt #1 Electrofishing
East bank Lavender concrete wall downstream of bridge, over hanging trees, ~100ft; rocky shore

Cond (ms/cm) = 393.8
Salinity (ppt) = 0.2
Temp (°C) = 25.4
Water depth = 7.7 ft
Freq = 60 Hz
Voltage = 200 V
Duty cycle = 25%
1405 Begin shocking, Pass #1
1406 Overload message from electrofisher unit reduce voltage to 130 V, stop shocking
1407 Continue shocking Pass #1
1409 Low battery message from electrofisher observe a fish swim away; stop shocking to replace battery
1413 Begin shocking Pass #1
1414 Stop shocking Pass #1
1418 Begin shocking Pass #2
1418 Stop shocking Pass #2

8/27/09

location 724721 N
LPR6T 596299 E - mid-point sampling location

Brian (MPI) boards electrofishing boat; John (dnr) departs

1432 LPR6V, Attempt #1 Electrofishing ~100ft East bank overhanging trees & grasses shallow water, mud flat area, upstream of Nutley Boat ramp; head downstream
Cond (mS/cm) = 396
Salinity (ppt) = 0.2
Temp (C) = 25.7
Water depth = 3.4 ft
Freq = 60 Hz
Voltage = 200 V
Duty cycle = 25%

1436 Begin shocking, Pass #1

1440 Stop shocking, Pass #1

1441 Begin shocking, Pass #2

Stop shocking, Pass #2

location 721948 N 592521 E mid pt sampling location

8/27/09 A. Rodriguez

1452 LPR6V, Attempt #1 Electrofishing East bank mud flat area, overhanging trees & grasses in the bank, shallow water; upstream of Nutley Boat ramp; head downstream
Cond (mS/cm) = 396.6
Salinity (ppt) = 0.2
Temp (°C) = 25.8
Water depth = 3.5 ft
Freq = 60 Hz
Voltage: ~~200~~ (Re) 200 V
Duty cycle = 25%

1454 Begin shocking; Pass #1

1500 Stop shocking; Pass #1

1501 Begin shocking; Pass #2

1503 Stop shocking; Pass #2

location 721576 N 592462 E mid pt. sampling location

1505 Brian (MPI) goes on the Jon boat w/ John (dnr) & head back to facility
Pontoon (electrofishing) boat heads back to the facility

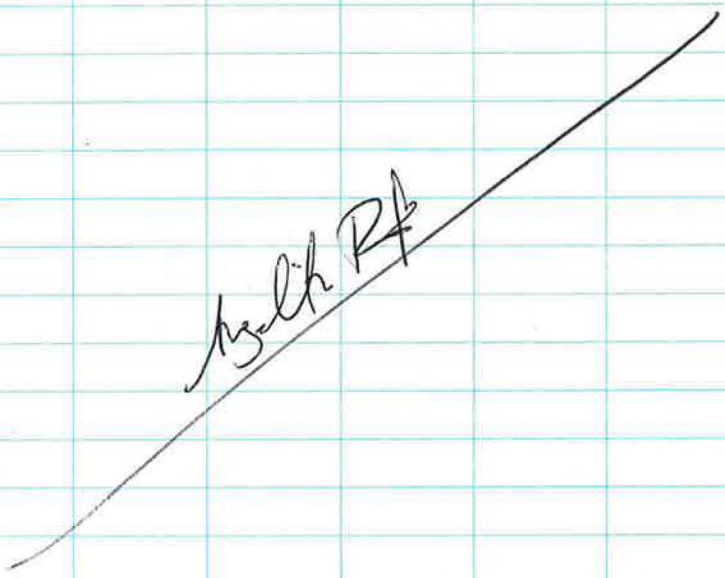
1530 Arrive @ Rutherford dock & unload

8/27/09 A. Rodriguez

Electrofishing setup: Used a back-pack electrofisher placed on the bow of the pontoon boat

Reference Coordinate Verification

G8XH6	733755N	597693E
G8XH10	733755N	597693E
G8XH5	733755N	597693E



8/28/09 A. Rodriguez

0520 Arrive @ field facility to load up supplies

0540 Reference Coordinate Check

G8XH6	733754N	597692E
G8XH10	733758N	597694E
G8XH5	733758N	597689E

0600 Arrive @ the Rutherford dock

Weather: Overcast, warm, light wind

Field crew: Angelita Rodriguez (ARW)
Thai Do (WW), Shanna Katka
Chelsea Lorenz (ARW)
Daniel Diedrich (WW)
Rick Berg (WW)
Matt Stuppell (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Rydeski (ASI)

HTRA oversight: Mike Halsey (AECOM)
CPG oversight: John Rolfe (Anchor)
EPA oversight: Dennis Corelli (MPI)

0620 Conduct Health & Safety meeting possible thunderstorms & heavy rain this afternoon, all boats will monitor channel 16

8/28/09 A. Rodriguez

0625 Head down to Reach 6 (RM 10 to RM 12) to begin sampling

0838 LPR6-C4 trotline on the east bank was found upstream from the Route 3 Bridge ~ 2,000 ft from its original location; field crew retrieved it & re-deployed it at its proper location

0900 Complete sampling in Reach 6 & begin sampling in Reach 7 RM 12 to RM 14

1030 Complete sampling in Reach 7

1045 Attempt to begin electrofishing in Reach 7, however the wet rainy conditions pose a safety issue per the ASI field crew. Electrofishing activities are suspended awaiting final recommendation for safety electrofishing (RB) ~~boat~~ per the manufacturer (Smith-Root)

1215 ASI calls WW field crew to inform them that electrofishing is unsafe to do in the wet conditions on the metal pontoon boat per the manufacturer.

8/28/09 A. Rodriguez

Reference Coordinate Verification

RB

1250	~~GPS~~ XH6	733765N	597694E
	~~GPS~~ XH10	733760N	597694E
	~~GPS~~ XH5	733759	597694E

Angelita RB

8/29/09 A. Rodriguez

0530 Arrive @ field facility to load up van w/ supplies

Reference Coordinate Check

G8X1H5	733876ON	597692E
G8X1H6	733758N	597691E
G8X1H10	733754N	597690E

0600 Arrive @ Rutherford dock to load up boats w/ supplies

Weather: Overcast, rainy, 70's

Field crew: Angelita Rodriguez (CLW)
Thai Do (CLW)
Shannon Kutka (CLW)
Daniel Diedrich (CLW)
Chelsea Lorenz (CLW)
Rick Berg (CLW)
Matt Shappell (CAS1) Captain
Mike Telesco (CAS1) Captain
Rob Croskey (CAS1)
Jeff Rydeski (CAS1)

EPA oversight: Dennis Corelli (NPI)

dnr boat operator: George Pfeffer

0620 Conduct Health & safety meeting — heavy rain & possible thunderstorms later in the afternoon & will monitor Channel 13

8/29/09 A. Rodriguez

0630 Head to Reach C to retrieve gear

Processing boat (Prattsus): Angie, Shannon, Daniel & Matt

Working Pontoon Boat: Chelsea, Jeff, Rob & Mike & Dennis (MPI)

Tin Boat: Thai, Rick, & George

Observe 1 rower downstream of the Nereid Crew Boat Dock.

0931 Complete retrieving all gillnets in Reach 6 & Reach 7, unload fish samples; replenish cooler supply & ice

1000 Head back down to Reach 6 & Reach 7 to retrieve the remaining trotlines

1030 LPR 6 S, Trotlines on east bank are lost possibly due to water current & debris

8/29/09 A. Rodriguez

1230 Complete retrieving trotlines in Reach 6 & Reach 7 & unload samples & supplies

Angelita Rd

8/29/09

Reference Coordinate Verification

1440 G8XH6 733759N 597690E
G8XH5 733759N 597692E
G8XH10 733759N 597692E

Angelita Rd

8/31/09 A. Rodriguez

0900 Arrive @ the field facility to load up supplies

0945 ASI (Matt Schappell) calls to inform WW field crew that the gate is locked @ the Passaic Yacht Club

1020 ~~Arrive~~ ASI calls to inform WW crew the gate is unlocked & WW heads to the Passaic Yacht Club

1050 Arrive @ the Passaic Yacht Club & load up boats w/supplies
Weather: overcast, windy, 70's
Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Chlesea Lorenz (WW)
Rick Berg (WW)
Mike Yarnes (WW)
Matt Shappell (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski (ASI)
Jeff Clemens (ASI) Captain
(AR) ~~LGT~~ CPG oversight: John Rolfe (dmi)
MPI oversight: Dennis Corelli (dmi)

8/31/09 Reference Coordinations A. Rodriguez

G8XH10	690825N	602687E
G8XH5	690824N	602688E
G8XH6	690825N	602688E

1150 Conduct Health & Safety meeting all boats will be monitoring Channel 10 sun exposure & heat will be a concern

1220 Arrive @ Reach 2 RM 2 to RM 4 to begin deploying gear

1222 LPR2I, Gillnet West bank riprap overhanging trees & vegetation, woody debris ~RM 3.9; deeper water

1235 LPR2F, Trotlines West bank, riprap, vegetation pipe terminates at river ~RM 3.8; deeper water

1257* LPR2G, Trotlines ~~West~~ (AR) East bank, riprap, vegetation, large woody debris, near some submerged pilings ~RM 3.3; deeper water

1320 LPR2J, Gillnet East bank wooden bulkhead w/rip rap & overhanging vegetation ~RM 2.8, deeper water

8/31/09 A. Rodriguez

1340 ~~LPR2H~~, East bank rip rap, wood debris vegetation, trash, downstream of bridge deeper water; ~RM 2.4; Trotlines

1402 LPR2K, East bank Old piers, rip rap, overhanging vegetation, deeper water ~RM 2.3; Gillnet

* NOTE: 1300 - 1610 MPI boats engine caught on fire & MPI needs assistance; Matt (ASI) drives the Prattis R/V to offer assistance & Matt calls to inform HW field crew that he is towing MPI boat back to the Rutherford dock

Pontoon boat: Mike, Chelsea, Angie, Rob, Jeff, Jeff (C) working to deploy trotlines & gillnets

Jon Boat: Thai, Rick & John R

Begin deploying gear in Reach 1 RM 0 to RM 2

1414 LPR1F, Trotlines East bank metal bulkhead downstream of partially submerged barge & upstream of bridge; ~RM 1.8; deeper water

8/31/09 A. Rodriguez

1434 LPR1I, Gillnet, West bank rip rap, vegetation; deeper water ~RM 1.5

1455 * LPR1G, Trotlines, West bank rip rap, vegetation; b/w 2 barges; deeper water

1522 LPR1J, Gillnet, West bank concrete bulkhead, vegetation; deeper water downstream of old railroad bridge & near rusted barge ~RM 0.9

1531 LPR1H, Trotlines, West bank concrete wall w/ rip rap & some vegetation ~RM 0.8

1548 LPR1K, Gillnet West bank Barge rip rap, vegetation downstream of old locking docks, deeper water; ~RM 0.4

1551 Head back to Passaic Yacht Club

* NOTE Thai, Rick & John head off the water back to the field facility

1601 Arrive @ the Passaic Yacht Club Verify reference coordinates @ flag pole

	G8XH10	690822N	602683E
(AP)	G8XH5	690824N	602680E
~~15~~ 1541	G8XH6	690821N	602687E

8/31/09 A. Rodriguez

LPR2E ~~North or~~ East bank vegetated shoreline, shallow mudflat area
LPR2N Same as above
LPR2Q Same as above
LPR2C West bank vegetated shoreline w/rip rap & shallow mudflat
LPR2M Same as above
LPR2P Same as above
LPR2B West bank shallow mudflat b/w I295 & Point no Point Bridges
LPR2L Same as above w/rip rap
LPR2O Same as above w/rip rap
LPR1D West bank shallow mudflat w/some rip rap
LPR1N Same as above
LPR1Q Same as above
LPR1B East bank aquatic veg along shoreline, subtidal mud-flat @ Kearney Point
LPR1M Same as above
LPR1P Same as above
LPR1A Same as above
LPR1L Same as above
LPR1O Same as above

Angelita DR

9/1/09 A. Rodriguez

0850 Arrive @ the Passaic Yacht Club
Weather: Clear, sunshine, windy, 70s
0900 Reference Coordinates Verification

G8XH5	690823N	602488E
G8XH6	690821N	602690E
G8XH10	690820N	602687E

Field crew: Angelita Rodriguez (CWW)
Thai Do (WW)
Chlesea Lorenz (WW)
Suzanne Replinger (WW)
Mike Yarnes (CWW)
Rick Berg (WW)
EPA oversight: Brian Gillen (MPI)
CPG oversight: John Rolfe (dmi)
0910 ASI crew: Matt Shappell-Captain
Jeff Clemens-Captain
Rob ~~Pydeski~~ Croskey
Jeff Pydeski
0915 Load up boats w/supplies
0935 Conduct Health & Safety Meeting; seiving hazards
0950 Arrive @ Reach 2 to begin sampling
1430 Lisa Saban calls requesting a status report of the daily catch; complete

9/1/09 A. Rodriguez

1450 Processing boat: Chlesea & Mike Y
~~Complete~~ @ continue processing fish
Pontoon boat: Suzanne, Angie, Rob,
Jeff C, Jeff P head to Reach 2
to conduct a dip net sweep for
mummichog in mudflat areas

1457 Identify a vegetated shallow mudflat; lowtide
~1 ft of water depth, pass ~50 ft
upstream from bridge LPR2R-A1
695246 N 596079 E, West bank
4 atlantic silversides collected

1525 Vegetated mudflat shallow ~ < 1 ft water
depth, East bank LPR1R-A1, ~50 ft
686450N 598429E
12 Sand Shrimp
1 Blue crab

1545 Arrive @ Passaic Yacht Club
Reference coordinate verification
G8XH5 686251N 598632E
* G8XH10 battery died.
1600 Met w/ Ken Jennings regarding boats

9/1/09 A. Rodriguez

1630 Talk to Lisa Saban (PM, WW)
regarding dip net sweep for
mummichog & recommend
moving minnow traps inshore
closer to the vegetated mudflat

*NOTE: G8XH6 690821N 602687E
1650 Arrive @ field facility

Angelita Rf

9/2/09 — A. Rodriguez

1020 Arrive @ the field facility to load up supplies

1100 Arrive @ the Passaic Yacht Club
Reference Coordinates Check

G8XH6	690821N	602686E
G8XH5	690823N	602687E
G8XH10	690822N	602687E

Load up boats w/ supplies & conduct Health & Safety meeting sun exposure & heat; stay (AE) hydrated

Pontoon boat will move minnow traps in Reach 1 ~~#~~ (AE) inward toward the vegetated mudflat shallower water, these traps will be checked in shorter intervals (i.e., (AE) ~~every~~ 2 hrs); per NOAA / In addition, the minnow traps in Reach 2 will be re-located toward the vegetated mudflat as feasible & checked

Weather: Clear, sunshine, 70s+

1150 Conduct a dip net sweep @ LPR1R

9/2/09 — A. Rodriguez

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Chlesea Lorenz (WW)
Rick Berg (WW)
Suzanne Replinger (WW)
Mike Yarnes (WW)
Mike Telesco (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski (ASI)
EPA Oversight: Julie Conklin (MPI)
HHRA Oversight: Mike Hauser (AECOM)
CPG oversight: John Rolfe (dmi)

1213 Head to Reach 2 to begin sampling
Processing boat (Prattis R/V): Mike (ASI), Mike (AECOM), Angie, Suzanne, & Chlesea
Pontoon boat: Mike (WW), Rob, Jeff C, Jeff P
Jon Boat: Thai, Rick, & John K

1257 LPR2F-B2 & LPR2F-C2 Trotlines were possibly retrieved by someone b/c all the hooks, lines, buoys & bricks were found onshore. Re-deployed in deeper water.

9/2/09 A. Rodriguez

1545 Thai & Rick take fish samples & head off water to begin processing

1720 Arrive @ the Passaic Yacht club

1730 Reference coordinate verification.

G8X H5	690814 N	602683 E
G8X H10	690819 N	602685 E
68X H6	690821 N	602686 E

Angelika RA

9/3/2009 A. Rodriguez

Arrive @ the field facility to load up supplies

1030 Arrive @ the Passaic Yacht Club.

Reference coordinates check

G8X H5	690824 N	602687 E
G8X H6	690823 N	602688 E
G8X H10	690822 N	602688 E

Field crew: Angelika Rodriguez (WW)
Thai Do (WW)
Chlesea Lorenz (WW)
Suzanne Replogen (WW)
Rick Berg (WW)
Mike Yarnes (WW)
Matt Shappell (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Rydelski (ASI)

CPG oversight: John Rolfe (WW)

Weather: Overcast, 70s

1057 Conduct Health & Safety meeting

1100 EPA oversight: Dennis Corelli

Begin sampling in Reach 1 & Reach 2 Rm 0 to RM 4

Jon Boat: Thai, John, Rick & Dennis retrieve & deploy minnow traps; collect 2 mummichogs

9/3/09 A. Rodriguez

Prattis
Pontoon boat: Angie, Chlesea, Suzanne, Matt process the fish collected: crab, eel, perch, goby & winter flounder

Pontoon boat: Mikey Jeff C, Jeff P & Rob retrieve & deploy trotlines & gillnets

1420 Attempt to conduct dip net sweep @ LPR1R (Kearny Pt.) but the low tide restricted access to the mudflat area, abandoned sampling & headed back to the Passaic Yatch

1500 Arrive at the Passaic Yacht Club.

1520 Reference coordinate verification

G8XH5	690822 N	602687 E
G8XH6	690821 N	602687 E
G8XH10	Unit did not come on to record coordinates; needs to be troubleshooting	

Angelita Rodriguez

9/4/09 A. Rodriguez

0855 Arrive @ the Passaic Yacht Club

Reference Coordinate Verification

G8XH5	690822N	602686E
G8XH10	690823N	602686E
G8XH6	690823N	602686E

Weather: Partly cloudy, windy, 70's

Load up supplies onto boats

Field crew: Angelita Rodriguez (ANR)
Thai Do (WW)
Rick Berg (WW)
Chlesea Lorenz (WW)
Suzanne Replinger (WW)
Mike Yarnes (WW)
Mike Telesco (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Rydeski (ASI)

EPA oversight: Julie Conklin (MPI)
Sharon Budney (CDM)

CPG oversight: John Rolfe (dmi)

Per EPA request, field crew will retain all Atlantic Silversides for tissue analysis & put 2 add'l trips (mummichog) @ LPR2B

9/4/09 A. Rodriguez

0923 Conduct Health & Safety meeting, monitoring channels 10 & 13

0938 Arrive @ Reach 1

1035 Cannot find trotline @ LPR2F, will return later in the afternoon to retrieve

1135 Jon boat: Thai, Rick, John, Sharon, & Julie drop off fish samples for further processing, catch Atl. Silversides & 2 mummichog, crabs

Pontoon boat: Mike Y, Jeff C, Rob & Jeff P retrieve & re-deploy gillnets & trotlines in Reach 1 & Reach 2

Prattis R/V: Angie, Chelsea, Suzanne & Mike T process fish collected in Reach 1 & Reach 2: crabs, eel, winter flounder, Atl. Silversides, white perch

1310 Thai, Rick, Chelsea, John, Julie (MPI) & Sharon (ODM) pkd cooler of fish samples & head back to the Passaic Yacht Club

1345 Pontoon boat w/ Mike Y, Jeff C, Rob & Jeff complete sampling in Reach 1 & Reach 2 & head back to Passaic Yacht Club; Prattis R/V w/ Suzanne, Angie & Mike T heads to Reach 2

9/4/09 A. Rodriguez

to retrieve LPR2F-A trotline

1407 Retrieve trotline & process 1 American eel & head back to Passaic Yacht Club

1445 Arrive @ the Passaic Yacht Club & unload samples & supplies

Reference Coordinate Verification

G8X1H5	690820N	602684E
G8X1H10	690818N	602682E
G8X1H6	690821N	602687E

1500 Depart the Passaic Yacht Club

Angie Prattis

9/5/2009 A. Rodriguez

~~0800~~ 0840 Arrive at Passaic Yacht Club. Gates locked.

0845 Call Ken Jennings to unlock the gate

0930 Gates opened.

0935 Reference coordinate verification

G8XH5	690821 N	602686 E
G8XH6	690822 N	602685 E
G8XH10	690824 N	602686 E

Weather: Clear, light wind, 70s

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Chelsea Lorenz (WW)
Rick Berg (WW)
Suzanne Replinger (WW)
Mark Padover (ASI) Captain
Mike Telesca (ASI) Captain
Rob Croskey (ASI)
Jeff Pydeski ~~Matt Shoppett~~ (ASI)

0935-1020 ASI crew departs to organize boat shuttle for the day.

0945 Thai, Rick, Julie Conklin (MPI), EPA oversight depart in Jon boat w/ George (dmi) to begin retrieving traps in Reach 1 & Reach 2

9/5/09 A. Rodriguez

Pontoon boat: Mike Y, Rob, Jeff & Mark to retrieve trotlines & gillnets

Prattis R/V: Angie, Suzanne, Chelsea & Mike T. process fish collected

1230 Complete retrieving all gear in Reach 1 RM 0 to RM 2 & begin retrieving gear in Reach RM 2 to RM 4

1320 Receive fish samples from the traps retrieved; Chelsea & Rick (WW), Julie (CDM) & George Pfeiffer (dmi) head back to Passaic Yacht Club w/ the processed fish.

1415 LPR2F, Trotlines A & C were not retrieved b/c the lines had been pulled by someone & all buoys, hooks, lines & anchors were missing. Only a few bricks & some line were found.

1430 Pontoon boat w/ Mike Y, Mike T & Rob & Jeff heads back to Rutherford facility Prattis R/V heads to Reach 2 to retrieve lost trotline

1445 Retrieve mummichog trap @ west bank near channel b/w LPR2A & LPR2B, red buoy 694327 N 598153 E; collect mummichog (1) Mud crabs 10 & Grass Shrimp 7 (LPR2B-B4)

48

9/5/09 A. Rodriguez

1515 Retrieve crab trap b/w LPR4D & LPR4E on the west bank, collect 1 American eel & 1 blue crab, drifted from LPRSM-B3 706046N 587356E, ~~LPR4-B3~~ red buoy

*1528 LPRSF-A2 Retrieve crab trap, yellow buoy Reach 4 downstream of N. Arlington Bridge & Diner on the west bank near mid-channel, empty

1534 LPRSF-C2 Retrieve crab trap, red buoy ~RM 9 east bank, empty

1545 Retrieve trotlines LPR6S, all empty 722611N 592690E

1559 Retrieve trotlines @ LPR7QBS empty near 728000N 597106E

1605 Arrive @ the Rutherford dock

*NOTE 1500 Retrieve trotline @ LPR4Q-C5

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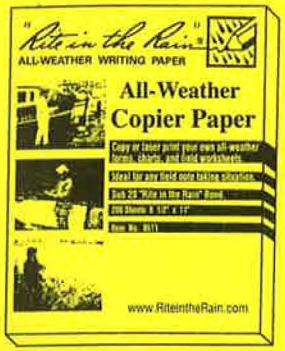

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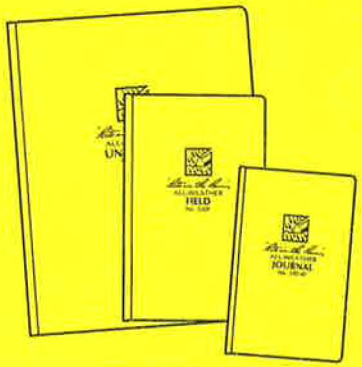
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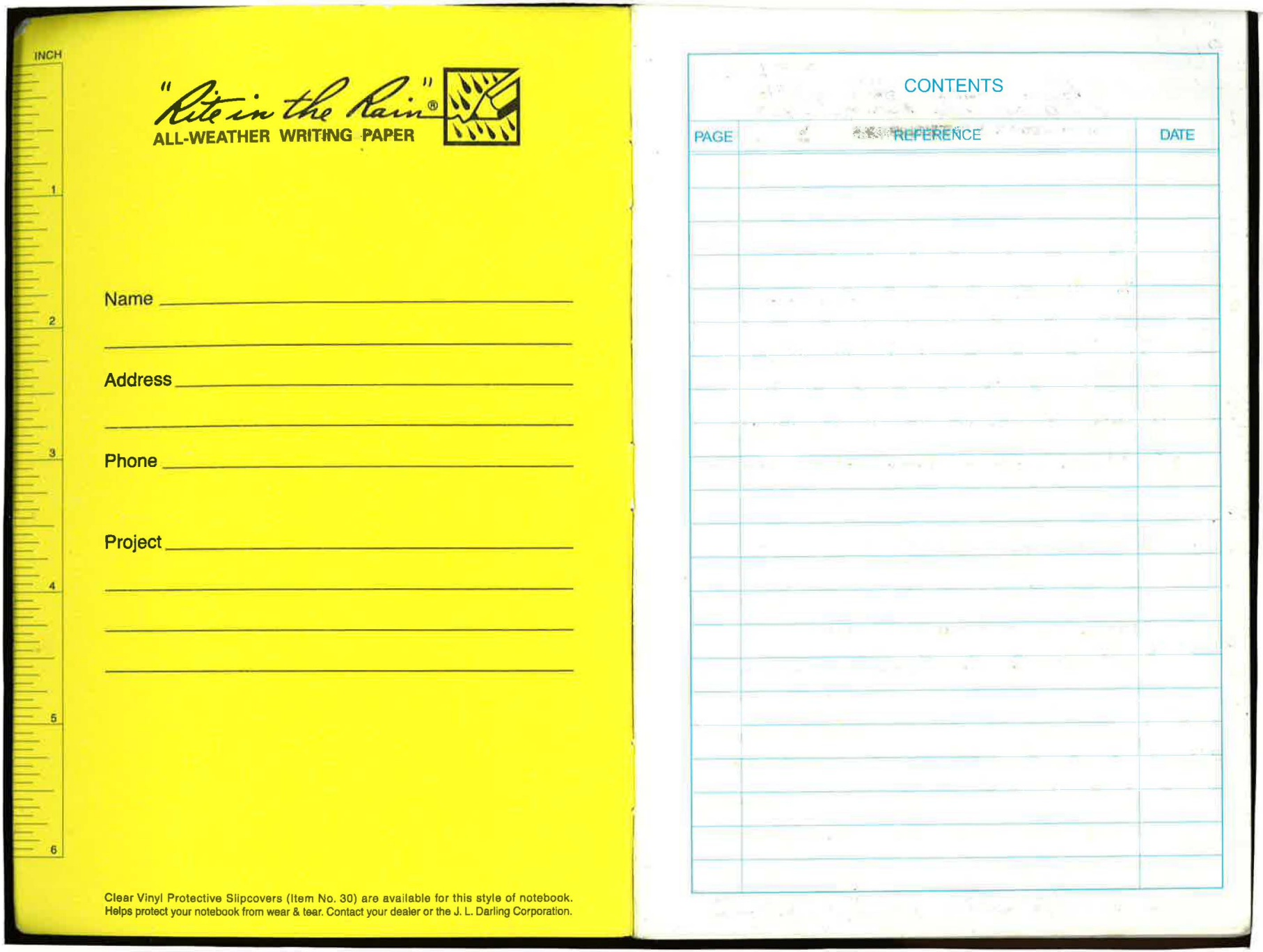
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CONTENTS
PAGE
REFERENCE
DATE

9/7/09 A Rodriguez

0650 Arrive @ the field facility to load up the field supplies

Reference coordinate verification:

G8XH6	733758N	597691E
G8XH5	733759N	597692E
G8XH10	733758N	597695E

0710 Field crew: Angelita Rodriguez (LWW)
Thai Do (LWW)
Daniel Diedrick (LWW)
Rick Berg (LWW)
Suzanne Replinger (LWW)
Mike Yarnes (LWW)
Jeff Clemens (ARSI) Captain
Rob Croskey (ARSI)
Michelle ~~Thorn~~ Thomas (ARSI)
Steven Bredeman (ARSI) Captain
CPG oversight: John Rolfe (LDWI)
EPA oversight: Julie Conklin (NAPI)
Doug Auld (NAPI)

0754 Conduct Health & Safety meeting

0800 Head to Reach 8 RM 14 to RM 17.4

0839 LPR8N, Trotlines, East bank w/overhanging trees, large woody debris & rip rap; upstream of two bridges & opposite side of small park

9/7/09 A Rodriguez

0855 Thai (LWW) field crew decide to work downstream b/c the water is very shallow w/ rock outcrops

0904 LPR8O, Trotlines, West bank, ~~large~~ large overhanging trees, shopping carts, large woody debris, deep water; downstream of two bridges

0933 LPR8R, Gillnet, East bank w/ vegetated bank & deeper water & overhanging trees

0942 LPR8P, Trotlines, West bank w/ overhanging trees, large woody debris,

1012 LPR8Q, Trotlines, East bank w/ overhanging trees & vegetation, deeper water, across from red-brick building & column (PPP Co.)

1027 LPR8S, Gillnet, West bank w/ overhanging trees, metal bulkhead, deeper water, downstream of bridge

1131 Angie, Suzanne, Daniel, Rob, Michelle, Jeff & Steven complete deploying trotlines & gillnets & head back to Rutherford dock to set up boat electrofishing.

* NOTE: Thai, Rick & Mike head off the river w/ Julie, Doug & John to deploy traps @ LPR8D, LPR8E & LPR8F via land

9/7/09 A. Rodriguez

*NOTE Schykull R/V left ~~anoch~~ anchored b/w RM 16 & RM 15.5 due to the high tide & vertical clearance issue

1040 Arrive at the Rutherford dock & head to the field facility to retrieve all boat electrofishing gear

1045 Thai, Mike, Rick, John R & Julie (MPI) depart field facility to attempt trap deployment from shore

1145 Boat electrofishing crew: Angelita, Suzanne, Daniel, Rob, Michelle, Jeff, Michelle & Steven (Captain) head upstream to reach 8 RM 14 to RM 17.4

~RM 13 ~~Observe~~ observe fisherman on the east bank fishing & crew boat w/ 2 people

1208 Boat electrofishing setup
Calibrate YSI 6820 SONDE & YSI 650 Logger
Salinity 25 ppt; Standard 25 ppt NaCl
LPR8U, west bank, overhanging trees

1240 Conductivity = 56.0 ms/cm
Salinity = .29 ppt
Temp = 22.1°C, Water depth = 8 ft
Observed a sunfish

9/7/09 A. Rodriguez

Pulse width = 3.5 ms
Volts Range = 120 - 500
Amperes Range = 4 to 6
Output Mode = 60 PPS DC

1315 ~~1329~~ * LPR8V, East bank across from Pulaski Park

1350 Pulse width = 3.5 ms 740405N 599724E
Volts = ~~8~~ 500 - 250
Amperes = 8
Output Mode = 60 PPS DC
Collect 2 pumpkinseeds, 1 white perch
Water depth = 6 to 4.8 ft

~1350 LPR8W, West bank under silver bridge

1400 Pulse width = 3.5 ms 741599N ~~2695992~~ 7E
Volts = 250
Amperes = 8 to 10
Output Mode = 60 PPS DC
American eel (x6), Blue crab (1), Pumpkin seed (2), White Sucker (2)

1400 LPR8X, East bank under silver bridge

1414 Pulse width = 3.5 ms 741628N 599365E
Volts = 250
Amperes = 8 to 10
Output Mode = 60 PPS DC
Collect Amer. eel (x10), sucker smallmouth bass, perch

9/7/09 A. Rodriguez

*NOTE: LPR8V: Boat electrofishing location
Conductivity = 530 mS/cm
Salinity = 0.27 ppt
Temp = 22.63°C

LPR8W & LPR8X: Boat electrofishing locations
Conductivity = 528 mS/cm
Salinity = 0.27 ppt
Temp = 23.1°C

1450 Arrive @ Rutherford dock
Reference coordinate verification.

G8XH5	733742 N	597681 E
G8XH6	733742 N	597680 E
G8XH10	733742 N	597684 E

LPR8D, Minnow Traps, West bank shallow rock & gravel substrate, riprap overhanging trees & vegetation along shoreline
LPR8J, Crab Traps, same as above
LPR8G, Crayfish Traps, same as above
LPR8A, Minnow Traps, East bank w/ concrete wall, shallow mud flat

9/7/09 A. Rodriguez

LPR8A Cont'd
w/ overhanging trees, purple loosestrife & vegetation along shoreline
LPR8H, Crayfish Traps, same as above
LPR8K, Crab Traps, same as above
LPR8E, Minnow Traps, East bank w/ silt, sand, gravel substrate, overhanging trees & vegetated shoreline, just North of gravel bar & backwater "island"
LPR8I, Crayfish Traps, same as above
LPR8L, Crab Traps, same as above
LPR8F, Minnow Traps, west bank w/ silt, gravel, cobble substrate, shallow side channel, over hanging trees & vegetated shoreline
LPR8T, Crayfish Traps same as above
LPR8M, Crab Traps same as above

9/8/09 A. Rodriguez

0645 Arrive @ field facility to load up supplies

Reference Coordinate Verification

0701	G8XH6	733751N	597695E
	G8XH5	733757N	597683E
	G8XH10	733756N	597687E

0710 Field crew: Angelita Rodriguez (CDM)
Thai Do (WW)
Daniel Diedrich (WW)
Suzanne Replinger (WW)
Rick Berg (WW)
Mike Yarnes (WW)
Matt Shappell (ASI) Captain
Steven Bradman (ASI) Captain
Rob Croskey (ASI)
Jeff Clemens (ASI)
Jeff Pydzski (ASI)

EPA oversight: Julie Conklin (MPI)
HHRA oversight: Mike Hauser (AECOM)
CAG oversight: John Rolfe (Admiral)
Jon boat: Thai, Mike, John, Julie (MPI)
Lead to Reach 8
Skyhall R/V Pontoon Boat: Rich, Jeff, Jeff, Matt & Rob

9/8/09 A. Rodriguez

ASI Ton Boat: Angie, Suzanne, Mike H, Steven, Daniel

0740 Conduct Health & Safety meeting & head to Reach 8

0749 Begin sampling in Reach 8

0920 Thai, Mike, Jeff P, John & Julie get fish samples & head off water to head to upper portion of Reach 8 to begin backpack electrofishing

0948 LPR8W, attempt #2 boat electrofishing

1005 Pulse width = 3.5 ms
Volts = 250
Amperes = 8
Output mode = 60 PPS DC
Water depth = 7 ft
Tide is incoming; visibility is difficult
Collect American eel, pumpkin seed, largemouth bass

1009 LPR8X, attempt #2 boat electrofishing

1020 Pulse width = 3.5 ms
Volts = 250
Amperes = 8
Output mode = 60 PPS DC; water depth = 7ft
Collect Smallmouth bass, largemouth bass, American eel

9/8/09 A. Rodriguez

1030 LPR8V, attempt #2 boat electrofishing

1045 Pulse width = 3.5 ms
Volts = 250
Amperes = 8
Output mode = 60 PPS DC; water depth = 10 ft
Collect American eel (~4), pumpkinseed (8)

1057 LPR8U, attempt #2 boat electrofishing

1113 Pulse width = 3.5 ms
Volts = 250
Amperes = 8
Output Mode = 60 PPS DC
Water depth = 11 ft
Collect white sucker (3), other species

1122 Complete sampling Reach 8

1130 Arrive @ Rutherford dock

1200 Re-located traps @ LPR8T & LPR8M to the main channel b/c observed blue crab in main channel
LPR8T & LPR8M Habitat notes: West bank of main channel mostly gravel

9/8/09 A. Rodriguez

LPR8T & LPR8M Habitat Cont'd
cobble w/over hanging trees &
vegetation along the bank

1215 Begin set up for back pack
electrofishing
Field crew: Thai (ASI), Mike G (ASI)
& Jeff P (ASI)
Julie Conklin (MPI) & John Rolfe
(dmi) present during electrofishing
activities

1228 YSI 6820 Sonde & YSI 650 Logger
Temp = 22.2°C
Conductivity = 543 µS/cm
Salinity = 0.28 ppt
Water depth = 2.8 ft

1232 LPR8Y, attempt 1 backpack e-fishing
to 1247 East bank of main channel mostly
gravel, cobble w/over hanging trees
& vegetation along the bank
Volts = 200
Duty cycle = 25%
Frequency = 60 Hz

9/8/09 A. Rodriguez

1315 LPR8Z, attempt #1 backpack e-fishing
to 1330 East bank of main channel just
below Dundee Dam w/ mostly
gravel, cobble w/over hanging trees
& vegetation along the bank

1305 YSI Readings
Temp = 22.3°C
Conductivity = 545 µS/cm
Salinity = 0.28 ppt
Water depth = 2.1 ft

1638 Reference Coordinate Verification (in yards)
(MY) [redacted] G8XH5 733753N 597690E
G8XH6 733754N 597691E
G8XH10 733767N 597696E

Angela R

9/9/09 — A. Rodriguez

0650 Arrive @ the field facility to load up supplies

0715 Reference Coordinate Verification

G8XH5	733742 N	597695 E
G8XH6	733748 N	597695 E
G8XH10	733745 N	597695 E

0720 Arrive @ Rutherford dock & Load up boats

0725 Conduct Health & Safety Meeting

0728 Head to Reach 8 Rm 14 to Rm 17.4

Weather: Overcast, humid, 70's

Field crew: Angelita Rodriguez (ARS)
Suzanne Replinger (ARS)
Rick Berg (ARS)
Daniel Diedrich (ARS)
Rob Croskey (ASI)
Jeff Pydeski (ASI)
Matt Shappell (ASI) Captain
Jeff Clemens (ASI) Captain

0740 Boat electrofishing set up; low tide

0749 LPR8U, attempt #3

0814 Pulse Width = 3.5 ms
Volts = 250
Amps = 8-9
Output Mode = 60 PPS DC

9/9/09 — A. Rodriguez

LPR8U, attempt #3
Water depth = 6 ft.
Collect Smallmouth bass, American eel, sunfish
Temp (°C) = 21.32
Cond (mS/cm) = 1127
Salinity (ppt) = 0.60

0825 LPR8V, attempt #3

0843 Pulse Width = 3.5 ms
Volts = 250
Amps = 8-9
Output Mode = 60 PPS DC
Water depth = 2.5 ft.
Collect American eel, sunfish
Temp (°C) = 21.54
Cond (mS/cm) = 1073
Salinity (ppt) = 0.57

* 0845-0920 Retrieve trotlines LPR8N LPR8O & Gillnet LPR8R due to low tide & low water levels

0957 LPR8X - Attempt #3, water level rising

1006 Pulse Width = 3.5 ms
Volts = 250
Amps = 8-9
Output Mode = 60 PPS DC

9/9/09 A. Rodriguez

LPR8X, Attempt #3 Cont'd
Water depth = 4.9 ft
Temp(°C) = 21.56
Cond (us/cm) = ~~0.57~~ 1070
Salinity (ppt) = 0.57
Collect American eel, pumpkin seed, sunfish
Partially eaten blue crab; discarded

1007 LPR8W, Attempt #3
1014 Pulse width = 3.5 ms
Volts = 250
Amps = 8-9
Output Mode = 60 PPS DC
Water depth = 4.5 ft
Collect smallmouth bass, sunfish

Temp(°C) = 21.60
Cond (us/cm) = 1073
Salinity (ppt) = 0.57

1100 Arrive @ LPR8S, Gillnet can not be found. It may have been picked up by another boat or re-located by debris & the water current. Boat crew dragged the river bottom to try to find it.

9/9/09 A. Rodriguez

1123 Replace gillnet upstream from previous (~ 1000 ft) location. LPR852-A1 metal bulkhead, downstream of bridge, west bank; deeper water
water depth = 14 ft
738412 N 598 202 E

* NOTE: Thai (WW), Mike (WW), John (dmi), & Brian (MPI) arrive to begin retrieval of traps.

1019 Thai, Mike, John, Brian, Rob (ASI) & Rick (WW) head off water to begin electrofishing by backpack via landing in upper Reach 8

1150 Arrive @ the Rutherford dock & off load samples.

1742 Reference coordinate Verification

G8XH5	733751 N	597692 E
G8XH6	733751 N	597695 E
G8XH10	733753 N	597692 E

Angela Day

9/10/09 A. Rodriguez

0700 Arrive @ the field facility

0702 Reference Coordinate Verification

G8X H6	733758 N	597691 E
G8X H10	733760 N	597692E
G8X H5	733758 N	597693E

0715 Arrive @ the Rutherford dock

Field crew: Angelita Rodriguez (ARW)
Suzanne Replinger (WW)
Daniel Diedrick (WW)
Matt Shappell ~~(WW)~~ ASI (PC)
Jeff Pydeski (ASI)
0730 Jeff Clemens (ASI)
Rob Croskey (ASI)

EPA oversight: Brian Gillen (MPI)
George Molnar (CDM)

~~BP~~ AR Backpack electrofishing crew
Thai Do (WW), Rick Borg (WW),
Mike Yarnes (WW), Jeff Pydeski (ASI)
w/ Brian & George accessing location
via land

9/10/09 A. Rodriguez

0745 Conduct Health & Safety meeting
0800 Head to Reach 8 RM 14 to RM 17.4

0838* LPR8V, attempt #4 low tide
0854 Pulse Width = 3.5ms
Volts = 250
Amps = 8-9
Output Mode = 60 PPS DC
Water depth = 2.5 ft
Collect white perch, American eel, blue crab
sunfish

0930 LPR8U, attempt #4
0958 Pulse width = 3.5ms
Volts = 250
Amps = 9
Output Mode = 60 PPS DC
Water depth = 4 ft to 3 ft
Collect white perch, Amer. eel, sunfish,
White sucker, smallmouth bass,
pumpkinseed

9/10/09 A. Rodriguez

1011 LPR8W, Attempt 4 (high tide crossing)
1026 Pulse width = 3.5ms
Volts = 250
Amps = 9
Output mode = 60 PPS DC
Water depth = 3 ft
Collect: American eel, largemouth bass, sunfish,

1030 LPR8X, attempt #4
1059 Pulse width = 3.5ms
Volts = 250
Amps = 9
Output Mode = 60 PPS DC
Water depth = 3 - 4 ft
Collect Amer. eel, sunfish

1115 LPR8R, Attempt #3 retrieve gillnet
Collect Striped bass, catfish, blue crab, white sucker
Partially eaten discarded
Gizzard shad
White perch
1123 LPR8R, Attempt #4 re-deploy gillnet

9/10/09 A. Rodriguez

1230 Suzanne & Daniel (CSW) head off water w/ fish samples

1345 Angie & Rick, Matt, Jeff C, & Rob arrive @ the Rutherford dock w/ final fish samples

* NOTE: 8:35 YSI Reading for back pack e-fishing
0840 - 0900 LPR8Z-A3, attempt #3
Temp (°C) = 20.79
Cond (uS/cm) = 1080
Salinity (ppt) = 0.59
Water depth = 2.5 ft

0915 - 0930 LPR8Z-A4, attempt #4
Temp (°C) = 20.82
Cond (uS/cm) = 1082
Salinity (ppt) = 0.59
Water depth = 3.1 ft

0955 - 1015 LPR8Y-A3, attempt #3
Temp (°C) = 20.66°C
Cond (uS/cm) = 1096
Salinity (ppt) = 0.60 Water depth = 3.2 ft

22

9/10/09 — A. Rodriguez

1035-1050 LPR8y -A4, attempt #4 backpack e-fishing
Temp (°C) = 20.69
Cond (uS/cm) = 1095
Salinity (ppt) = 0.59
Water depth = 2.4 ft

0654 Reference Verification

G8XHG	733753N	597684E
H5	733753N	597686E
H10	733757N	597683E

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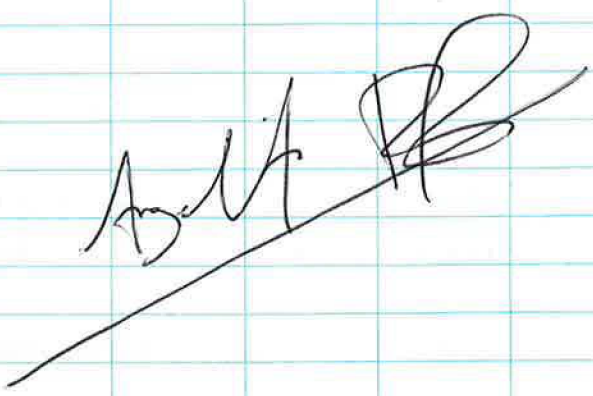

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9/11/09 — R Berg, D. Diedrich

0911 Reference Verification

G8XH 5	733762 N	597688 E
G8XH 6	733760 N	597688 E
G8XH 10	733761 N	597686 E

0730 Trap crew: Rick Berg, Mike Yarnes, Thai D
0750 Arrive at trap location LPR8F for attempt #4
0754-0758 Retrieved & redeployed traps LPR8F-A,B,C
0744-0752 Retrieved & redeployed traps LPR8H-A,B,C
0739-0748 Retrieved & redeployed traps LPR8T-A,B,C
One bluegill in trap LPR8T-C
0810 Arrive at trap location LPR8E for attempt #4
0820-0825 Retrieved & redeployed traps LPR8I-A,B,C
0815-0820 Retrieved & redeployed traps LPR8L-A,B,C
~~One bluegill in tr~~ #B
One rock bass in trap LPR8L-A
0900 Return to field facility to prepare for backpack electrofishing
1030 Head to LPR8Z

09-11-09 TRB

1047 YSI Reading for LPR8Z-A5
Temp. 19.58°C
Cond. 1058 µS/cm
Salinity 0.59 ppt.
Depth 2.0 ft.

1103 Start e-fishing at LPR8Z-A5

1128 End e-fishing at LPR8Z-A5
LR24 Settings:
200 V
60 Hz
25% duty cycle.

1149 YSI Reading for LPR8Y-A5
Temp. 19.18°C
Cond. 1051 µS/cm
Salinity 0.59 ppt.
Depth 2.2 ft.
LR24 Settings: Same as above.

1151 Start e-fishing at LPR8Y-A5

1200 End e-fishing at LPR8Y-A5 to change battery.

1207 Resume at LPR8Y-A5

1217 End e-fishing at LPR8Y-A5.

1245 Head back to field facility.

9/11/09

1532 Reference Coordinate Verification

G8XH5	733762N	597682E
G8XH6	733761N	597686E
G8XH10	733762N	597684E

9/12/09 A. Rodriguez

0656 Reference Coordinate Verification

G8XH5	733754	597691
G8XH6	733754	597691
G8XH10	733754	597691

Arrive @ field facility & load up coolers & supplies

0715 Arrive @ Rutherford dock & load up boats

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Suzanne Replinger (WW)
Rich Berg (WW)
Daniel Diedrich (WW)
Mike Yarnes (WW)

9/12/09 A. Rodriguez

Field crew: Rob Croskey (ASI)
Jeff Pydeski (ASI)
Jeff Clemens (ASI) Captain
Mike Telesco (ASI) Captain
CPG oversight: George Pfiefter (dec)
EPA oversight: Dennis Corella (MPI)
& boat operator

0730 Conduct Health & Safety meeting another low tide watch out for the shallows, wet surfaces, pinch points
Weather: Overcast, humid

0735 Head to Reach 8 RM 14 to RM 17.4
Jon boat: Thai, Mike Y & George retrieving traps
Jon II R/V: Suzanne, Rich & Mike T processing fish & retrieving trotlines
Schuky II Pontoon: Angie, Daniel, Jeff C, Jeff P & Rob boat e-fishing & retrieving trotlines

0754 Boat e-fishing set up
0758 LPR8U, attempt #5 low tide
0730 Pulse Width = 3.5 ms
Volts = 250
Output mode = 60 PPS DC
Amps = 9

9/12/09 A. Rodriguez

LPR8U YSI readings
Water depth (ft) = ~~4.7~~
Temp (°C) = 18.87
Cond (us/cm) = 1009
Salinity (ppt) = 0.57
Collect carp, blue crab, American eel, sunfish

0823 Drop off 1st batch of fish to processing boat

0830 ~~Be~~ Drop off 2nd batch of fish & head upstream, starts to rain so break down boat e-fishing

0845 Retrieve gillnet LPR8K
Partially eaten crab; discarded

0858 LPR8Q - A4 Trotline retrieval
0907 LPR8Q - C4 Trotline retrieval
0911 LPR8Q - B4 Trotline retrieval

0930 LPR8V, attempt #5
0958 Pulse width = 3.5 ms
Volts = 250
Output mode = 60 PPS DC
Amps = 9
Water depth (ft) = 4
Temp (°C) = 18.88
Conduct (us/cm) = 983

9/12/09 A. Rodriguez

LPR8V, attempt #5 Cont'd
Salinity (ppt) = 0.55
Collect Amer. eel, blue crab, white sucker, carp, largemouth bass

0935 Dennis (EPA oversight) present
0958 to observe e-fishing via boat

1005 Try to get to least 2 boat e-fishing locations near the 2 bridges but tide is too low; help process fish samples

1054 Head back to upper reach 8, to begin e-fishing; tide is coming in, higher water

1057 LPR8X - Attempt #5
1113 Pulse width = 3.5ms
Volts = 250
Amps = 9
Output mode = 60 PPS DC
Water depth (ft) = 6-2
Temp (°C) = 19.32
Cond (uS/cm) = 962
Salinity (ppt) = 0.54
Collect Gizzard shad, white sucker, red-breasted, pumpkinseed, eel

9/12/09 A. Rodriguez

1116 LPR8W, attempt #5
1126 Pulse width = 3.5ms
Volts = 250
Amps = 9
Output mode = 60 PPS DC
Water depth (ft) = 6-2
Temp (°C) = 19.31
Cond (uS/cm) = 986
Salinity (ppt) = 0.55
Collect American eel, blue crab, tesselated darter, smallmouth bass, white sucker, bluegill

1223 Return to the Rutherford dock

Reference coordinate verification
G8X H5 733747 N 597685 E
G8X H6 733747 N 597685 E
G8X H10 battery exhausted

9/14/09 A. Rodriguez

0750 Arrive @ the field facility to load up supplies

0800 Reference Coordinate Verification unable to complete due to low battery

0820 Arrive @ the Rutherford dock & load up boats

Weather Clear, sunshine, warm

Field Crew Angelita Rodriguez (ORD)
Thai Do (WW)
Suzanne Replinger (WW)
Rick Berg (WW)
Daniel Diedrich (WW)
Mike Yarnes (WW)
Steve Brodmeier (ASI) Captain
Jeff Clemens (ASI) Captain
Jeff Pydeski (ASI)
Rob Croskey

EPA oversight: Dennis Corelli (MPI) + boat operator

GPG oversight: John Rolfe (dmi)

0900 Conduct Health & Safety meeting

0905 Head down to Reach 5, RM 8 to RM10

0910 Jon boat: Thai, Mike & John depart to set crab traps

9/14/09 A. Rodriguez

Pratts RV: Angie, Suzanne, Daniel & Steve depart to locate the gillnet & trotline sampling locations

Schaykill RV Pontoon: Rick, Jeff C, Jeff P & Rob depart to deploy trotlines & gillnets

0930 Set 2 gillnets in Reach 5 @ LPR5I & LPR5G to target perch & crab per EPA

0946 Set 3 gillnets in Reach 4 RM 6 to RM 8 LPR4L, LPR4M, LPR4O to target perch & crab per EPA

1026 Set 6 trotlines in Reach 1 RM 0 to RM 2 @ LPR1G

1200 Return to Rutherford dock

1145 Reference Coordinate Verification

G8XH5 733757 N 597688 E
G8XH6 733755 N 597688 E
G8XH10 Battery Exhausted

Angelita RP

9/15/09 A. Rodriguez

0750 Arrive @ the field facility to load up supplies & give Tad Deshler (WW) a quick tour of the field facility

0755 Reference Coordinate Verification
G8XH5: 733765N 597695E
G8XH6: 733763N 597694E
G8XH10: 733765N 597695E

0810 Arrive @ the Rutherford dock to load up boats w/supplies
Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Suzanne Replinger (WW)
Daniel Diedrich (WW)
Rick Berg (WW)
Mike Yarnes (WW)
Mike Telesco (ASI) Captain
Jeff Clemens (ASI) Captain
Rob Croskey (ASI)
Jeff Rydeski (ASI)

0820 Conduct Health & Safety meeting
Boats will monitor Channel 13
Weather: Partly cloudy, sunshine, warm

9/15/09 A. Rodriguez

EPA oversight: Dennis Corelli (MPI)
CPG oversight: John Rolfe (Anchor)
HHRA oversight: Mike Hauser (AECOM)

0824 Head to Reach 5 RM 8 to RM 10 to retrieve gillnets

Prattis R/V Angie, Suzanne, Daniel, Mike Hauser & Mike Telesco will process fish samples
Schuckl R/V Pontoon: Rick, Jeff C, Jeff P, Rob will retrieve & redeploy gear (gillnets & trotlines)
Jon boat: Thai, Mike Yarnes, John & Dennis will retrieve & re-deploy traps

0915 Retrieve gillnet LPR5G that comes up empty, therefore, decide to redeploy gillnet @ LPR5E near the DeTessa Bridge

0920 Head to Reach 4 RM 6 to RM 8 to retrieve gillnets

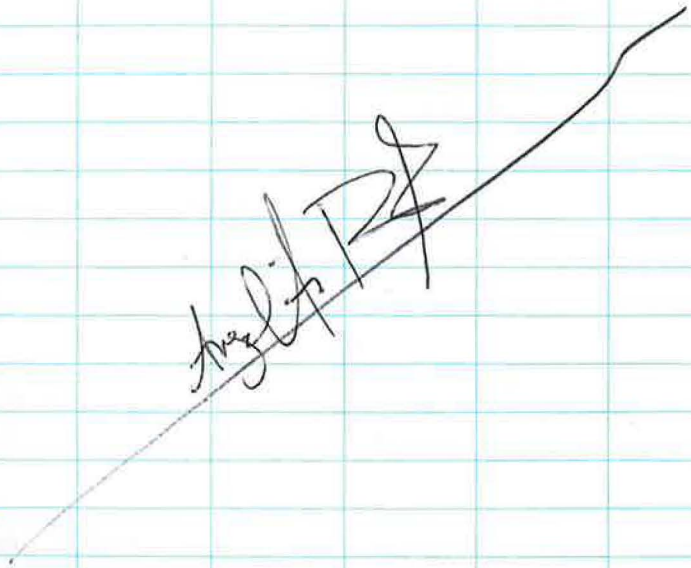
1010 Head to Reach 1 RM 0 to RM 2 to retrieve trotlines

9/15/09 A. Rodriguez

1125 Return to the Rutherford dock

1231 Reference Coordinate Verification
DD

68XH5	733754	N	597691	E
68XH6	733755	N	597691	E
68XH10	733754	N	597691	E



9/16/09 A. Rodriguez

0820 Arrive @ the field facility to load up supplies

0834 Reference Coordinate Verification
MY

G8XH10	733757	N	597695	E
G8XH6	733759	N	597701	E
G8XH5	733755	N	597699	E

0840 Arrive @ Rutherford dock to load up boats w/ supplies
Weather: Overcast, light wind, humid possible rain showers

Field crew: Angelita Rodriguez (WW)
Thai Do (WW)
Daniel Diedrich (WW)
Suzanne Replinger (WW)
Rick Berg (WW)
Mike Yarnes (WW)
Jeff Clemens (ASI) Captain
Mike Telesco (ASI) Captain
Rob Crosbey (ASI)
Michelle Thomas (ASI)

9/16/09 — A. Rodriguez

EPA Oversight: Julie Conklin (MPI)
CPG oversight: John Rolfe (Cdm)

0845 Conduct Health & Safety Meeting

0900 Jon boat: Thai, Rick, John & Julie retrieve & re-deploy crab traps in Reach 4, 5, 6

Schutzkill R/V Pontoon: Mike Y, Rob, Michelle & Jeff retrieve & redeploy gillnets & trotlines in Reaches 4 & 5 & 1

Prattis R/V: Angie, Daniel, Suzanne & Mike T process fish samples collected in Reaches 4 & 5 & 1

0940 Complete sampling in Reach 5, RM 8 to RM 10; gillnets only

1037 Complete sampling in Reach 4, RM 6 to RM 8, gillnets only

1153 Complete sampling in Reach 1, RM 0 to RM 2, trotlines only & set 3 trotlines @ LPR1H to try to increase the eel catch

1255 Arrive @ the Rutherford dock

1336 Reference Coordinate Verification

G8XH5	733754 N	597692 E
G8XH6	733754 N	597692 E
G8XH10	733754 N	597693 E

Angelita Rdz

9/17/09 — A. Rodriguez

0855 Arrive @ the field facility to load up supplies

907 GPS Coordinate Verification Reference

G8XH10	733754 N	597692 E
G8XH6	733758 N	597693 E
G8XH5	733759 N	597693 E

0915 Arrive @ the Rutherford dock to load up boats

Field crew: Angelita Rodriguez (CDM)
Thai Do (CDM)
Suzanne Replinger (CDM)
Daniel Diedrich (CDM)
Rick Berg (CDM)
Mike Yarnes (CDM)
Jeff Clemens (CASI) Captain
Mike Telesco (CASI) Captain
Rob Crosley (CASI)
Michelle Thomas (CASI)

EPA oversight: Dennis Corelli (MPI)

0928 Conduct Health & Safety Meeting

Weather: Overcast, light wind, 60's

9/17/09 A Rodriguez

Jon II boat. Rob, Thai & Rick to retrieve crab traps in Reaches 4, 5 & 6

Schucky II R/V Ponton: Mike H, Daniel, Michelle & Jeff to retrieve & re-deploy gillnets Reaches 4 & 5

Pratts R/V: Angelo & Suzanne, Mike T to retrieve & re-deploy trot lines in Reach 1 & process the fish samples

0940 Begin raining

YSI Readings below water surface depth = 2.5 ft
Temp = 20.3 °C Reach 5, ~RM 9
Conductivity = 1230 uS/cm
Salinity = 0.67 ppt

YSI Readings below water surface depth = 8.5 ft
Temp = 20.29 °C Reach 5, ~RM 9
Conductivity = 1210 uS/cm
Salinity = 0.67 ppt

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1252 Reach 4 YSI readings ~ RM 6
water depth = 2 ft below water surface
Temp = 20.24 °C
Cond = 2315 uS/cm
Salinity = 1.32 ppt; upstream of old railroad bridge

8 ft below water surface ~ RM 6
Temp = 20.23 °C
Cond = 2234 uS/cm
Salinity = 1.27 ppt; upstream of old railroad bridge

1259 Reach 4. YSI reading ~ RM 7 @ LPR 40 2 ft below water surface
Temp = 20.1 °C
Cond = 1123 uS/cm
Salinity = 0.62 ppt

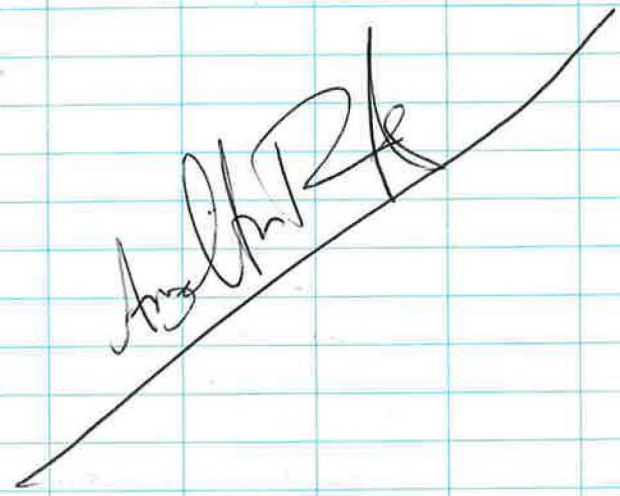
8 ft below water surface
Temp = 20.18 °C
Cond = 1125 uS/cm
Salinity = 0.62 ppt

1315 Arrive @ Cutlerford dock

1528 Reference Coordinate Verification

MW

G8XH10	733753N	597694E
G8XH6	733753N	597690E
G8XH5	733754N	597691E



9/18/09 A Rodriguez

0750 Arrive @ field facility to load up vehicles w/ supplies

* NOTE 0715 ASI calls to inform our field crew they will be delayed & will be at the Rutherford dock @ 8:45 am

0803 Reference coordinate verification

G8XH5	733757 N	597693 E
G8XH6	733757 N	597693 E
G8XH10	733757 N	597695 E

0830 Arrive @ Rutherford dock to load up boats

Field crew: Angelita Rodriguez (CSW)
Thai Do (CSW)
Daniel Diedrich (CSW)
Suzanne Replinger (CSW)
Mike Yarnes (CSW)
Jeff Clemens (ASI) Captain
Mike Telesco (ASI) Captain
Rob Croskey (ASI)
Jeff Rydelski (ASI)

EPA oversight: Brian Gillen (CMP)

CPG oversight: John Reifel (Anchor)

0845 Set up boat e-fishing

9/18/09 A. Rodriguez

0900 Conduct Health & Safety meeting

1000 LPR5Q, East bank overhanging veg.

1025 concrete block structures, next to River County Park

Boat electrofishing

* LPR5Q, attempt #1 717296N 592183E

Pulse Width = 3.0 ms to 4.0 ms

Volts = 500, change to ~~550~~ 375

Amps = 4 to 8

Output mode = 60 PPS DC

Collect Atl. Silverside, smallmouth bass, pumpkin seed, killifish

1035 LPR5R, attempt #1, East bank, over-

1103 hanging veg, rip rap, submerged pilings

Pulse width = 3 ms 716313N 592457E

Volts = 375

~~Volts~~ Amps = 7

Output mode = 60 PPS DC

Temp (°C) = 19.96

Cond (uS/cm) = 1146

Salinity (ppt) = 0.63

Water depth = 3.5 ft

Collect white perch, carp, ~~tiger muskellunge~~ Northern pike (NP)

largemouth bass, smallmouth bass, sunfish

9/18/09 A. Rodriguez

1115 LPR5S, attempt #1 boat electrofishing

1137 Pulse width = 3 ms 711829N

Volts = 375-500 589701E

Amps = 7

Output mode = 60 PPS DC

Temp (°C) = 20.18

Cond (uS/cm) = 1197

Salinity (ppt) = 0.67

Water depth = 6 ft

LPR5S, west bank downstream of gillnet location near the N. Arlington bridge, overhanging veg, rip rap

Collect carp, white perch, shiner, sunfish, catfish (white)

1157 LPR5T, attempt #1 west bank overhanging

1215 trees, cobbles, gravel, upstream from the 2nd River, 709403N 589609E

Pulse width = 3 ms

Volts = 375

Amps = 7

Output mode = 60 PPS DC

Temp (°C) = 20.15, Salinity (ppt) = 0.66

Cond (uS/cm) = 1188, Water depth = 5 ft

Collect white perch, striped bass, white sucker carp

9/18/09 A. Rodriguez

1319 LPR4R, attempt #1, west bank
1336 rip rap shore w/ large woody debris submerged pilings, small mud flat area
Pulse width = 3 ms 705441N 587095E
Volts = 375
Amps = 7
Output mode = 60 PPS DC
Temp (°C) = 20.40
Cond (uS/cm) = 1146
Salinity (ppt) = 0.63
Water depth (ft) = 8
Collect white perch, pumpkinseed, carp

1350 LPR4S, attempt # 1, East bank rip
1405 rap, gravel, wooden bulk head w/ overhanging veg., large cement blocks
Pulse width = 3 ms 706783N 588168E
Volts = 375
Amps = 6
Output mode = 60 PPS DC
Temp (°C) = 20.40
Cond (uS/cm) = 1089
Salinity (ppt) = 0.60 Water depth = 4 ft
Collect largemouth bass, white perch, carp, sunfish, white sucker

9/18/09 A. Rodriguez

1410 LPR4T, East bank rip rap
1424 w/ overhanging veg, downstream of Conrail - Arlington Bridge
Pulse width = 3 ms 707879N 589044E
Volts = 375
Amps = 6
Output mode = 60 PPS DC
Temp (°C) = 20.29
Cond (uS/cm) = 1031
Salinity (ppt) = 0.59
Water depth = 10 ft
Collect white perch, scantish, carp largemouth bass, shiner

1430 Head back to Rutherford dock
1500 Arrive @ Rutherford dock
* NOTE 1010 LPR5Q Temp (°C) = 19.94, cond (uS/cm) = 1152
Salinity (ppt) = 0.64; water depth (ft) = 4

1849 Reference Coordinate Verification M Yannes
G8XH5 733757N 597689E
G8XH6 733754N 597692E
G8XH10 733754N 597695E

9/19/09 A. Rodriguez
Daniel Diedrich

Reference Coordinate Verification

	G8XH5	733 755 N	597 694 E
0759	G8XH6	733 756 N	597 694 E
	G8XH10	733755 N	597 693 E

0800 Load up supplies into the vehicles
0810 Arrive @ the Rutherford dock & load up boats
Field crew: Angelita Rodriguez (ARod)
Thai Do (TDo)
Suzanne Replinger (SRep)
Daniel Diedrich (DDie)
Rick Berg (RBer) & Mike Yarnes (MYar)
Matt Schapell & Mike Telesco (MTel)
Rob Croskey & Jeff ~~Dear~~ Pydeski (JPyd)
EPA oversight: Brian Gillen (BGil)
CPB oversight: George Pfeffer (GPfe)
Weather: Clear, sunshine, 50's

0935 LPR5Q, attempt #2 High tide
1004 Pulse width = 3.0 ms, Volts = 375, Amps = 7.6
Output Mode = 60 PPS DC
Temp (°C) = 19.76, Cond (uS/cm) = 1181
Salinity (ppt) = 0.66, Water depth (ft) = 5
Collect largemouth bass, smallmouth bass, white perch, sunfish

9/19/09 A. Rodriguez

1012 LPR5R, attempt #2 High tide
1042 Pulse width = 3 ms, Volts = 375, Amps = 6
Output Mode = 60 PPS DC
Temp (°C) = 19.80 Cond (uS/cm) = 1211
Salinity (ppt) = 0.67 Water depth (ft) = 7
Collect Gizzard Shad, white perch, largemouth bass

1100 LPR5S, attempt #2 high tide
1125 Pulse width = 3 ms, Volts = 375, Amps = 6
Output Mode = 60 PPS DC
Temp (°C) = 20.07 Cond (uS/cm) = 1267
Salinity (ppt) = 0.70, water depth = 5 ft
Collect carp, pumpkinseed, white perch, shiner

1133 ~~LPR5I~~ LPR5T, attempt #2 high tide
1203 Pulse width = 3 ms, Volts = 375, Amps = 6
Output Mode = 60 PPS DC
Temp (°C) = 20.00 Cond (uS/cm) = 1322
Salinity (ppt) = 0.74, water depth = 9 ft
Collect carp, largemouth bass, sunfish

9/19/09 A. Rodriguez

1210 LPR 4T, attempt #2 tide is going out

1239 Pulse width = 2mS, Volts = 375, Amps = 6

Output Mode = 60 PPS DC

Temp (°C) = 19.99 Cond (uS/cm) = 1298

Salinity (ppt) = 0.72 Water depth (ft) = 7

Collect white perch, ~~car~~ (AD)

1359 LPR 4R attempt #2 tide is going out

1417 Pulse width = 2 mS, Volts = 375, Amps = 6

Output Mode = 60 PPS DC

Temp (°C) = 20.10 Cond (uS/cm) = 1137

Salinity (ppt) = 0.63 Water depth (ft) = 8

Collect carp, bass, sunfish

1424 LPR 4S, attempt #2, tide is going out

1441 Pulse width = 2ms, Volts = 375, Amps = 6

Output Mode = 60 PPS DC

Temp (°C) = 19.96 Cond (uS/cm) = 1098

Salinity (ppt) = 0.61 Water depth (ft) = 6

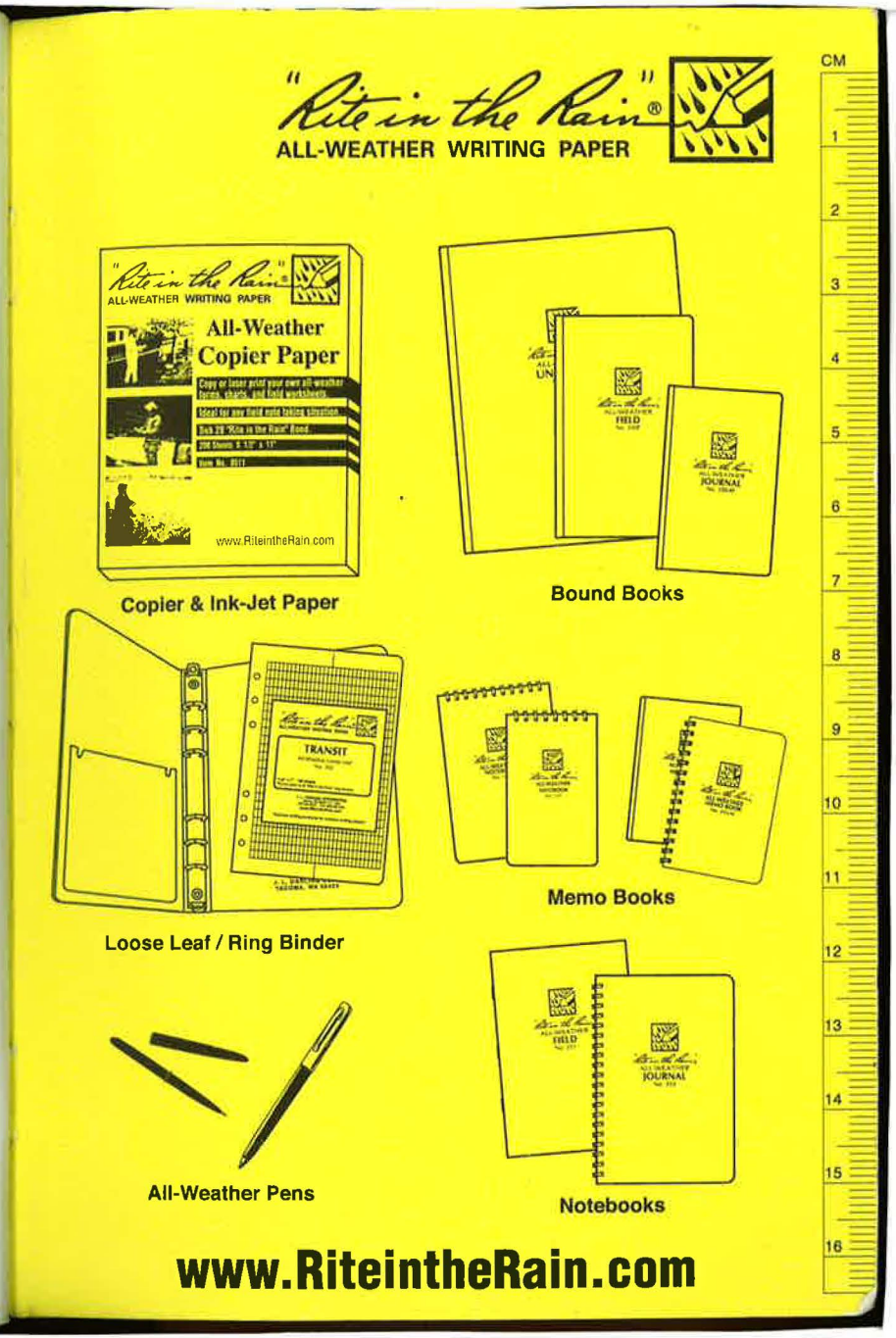
Collect white perch, striped bass, green sunfish

1518 Return to Rutherford dock

1836 REFERENCE COORDINATE VERIFICATION

5	733755 N	597688 E
6	733753 N	597688 E
10	733759 N	597686 E

Daniel Dudish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LABORATORY NOTES FOR AUGUST 11 THROUGH SEPTEMBER 19, 2009

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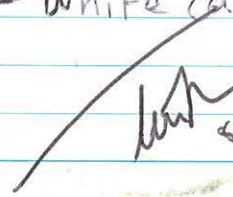
S. Fowler

CONTENTS

PAGE	REFERENCE	DATE
~~321~~ 1SK	Guide: Freshwater Fishes Page & Burr	8/11/09
1B21	Laboratory.	
	*LPR3L-AC002	
	Catfish assessment/identification	
	- moderately forked caudal fin	
	- small adiposest fin is free	
	- anal fin is rounded	
	- Uniform coloration on back	
	- 23 rays on anal fin	
	- based on anal rays the fish is a white catfish	
	- saw-like teeth on rear of pectoral spine	
	*LPR3L-AC001	
	catfish identification.	
	- Saw-like teeth on rear of pectoral spine	
	- 22 rays on anal fin	
	- White catfish	



8/11-09

8-12-09 S. Fowler

1540 LPR3F ~~AG~~ AN SF 003
catfish identification
- square caudal / slightly "V" shaped
- 23 anal fin rays
~~white catfish~~ SF
- approx 6 saw-like teeth on back of pectoral spine.
- 4 dark chin barbels.
- based on color of chin barbels & <10 prominant saw-like teeth → brown bullhead
- photo #73, 72 & 71 camera 1

Guide: Freshwater Fishes Page & Burr.

8-11-09

8-13-09 S. Fowler

15:05
White Perch & striped bass hybrid identification
→ Following temperate basses key from Robert warner.
→ anal spines: First spine is much shorter & second two are similar length.
→ based on length of anal spines the fish are White perch.

1523 LPR30-MT001 Identification
→ Guide: Page & Burr
- black blotches on side & fins
- pale lateral line
- rounded caudal fin
- 3 dorsal fins of equal length
- 2 anal fins
- 2nd ray of pelvic fin almost twice length of other rays
- snout overhangs lower jaw
- chin barbel
- small eye.
- Atlantic tomcod.

Camera 1 photo ~~73~~, ~~72~~, ~~71~~ SF #78, 79, 80

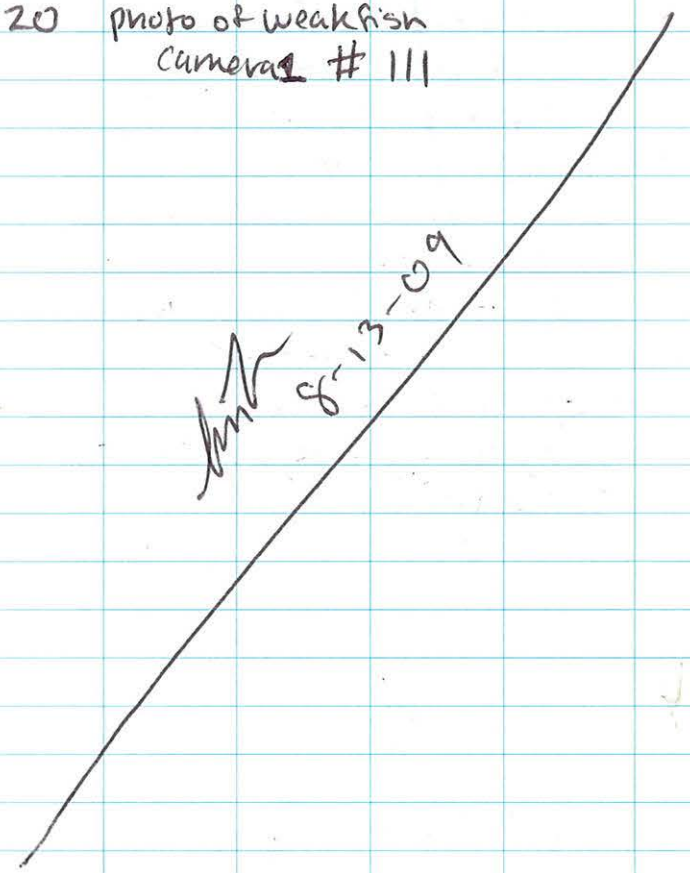
8-17-09

8-13-09 S. Fowler

15:50 LPR3Q-~~IP001~~ AC003 SF
catfish Identification.
- 22 anal rays.
- White catfish
- moderately forked caudal.

1720 photo of weakfish
camera1 # 111

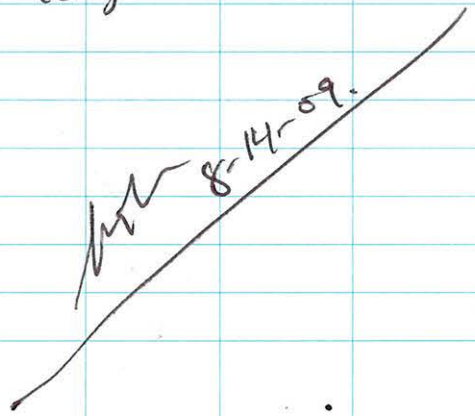
8-13-09



8-14-09 S. Fowler

11:07 LPR3P-AC004
catfish identification
- 21 anal rays
- white catfish

12:20 LPR3N-MA
White perch identification
- 9 soft anal rays
- 3 anal spines (first 3) are graduated in length
1st one is shortest
second one is 18mm
third one is 21mm
(> 2/3 the length)
- upper & lower jaws are approximately the same length



8-14-09.

08-18-09 S. Fowler

14:02 Calibrate scale #1
Serial # 100SUS 0906 V1300
Model # 100SUSSSBKDR
10g weight = 10g
50g weight = 50g
200g weight = 200g

14:06 Calibrak scale ~~#2~~
Serial # 100SUS 0506 V1300
Model # 100SUSSS13KDR
10g weight = 10g
50g weight = 50g
200g weight = 200g

14:10 catfish identification
LPR5F-1P001
- adipose fin is flap-like and free
- caudal fin is distinctly forked
- body has black spots
- tail deeply forked
- Shortest rays in caudal fin are less than half length of longest rays.
(shortest = 32 mm &
longest = 70 mm.)
- Channel catfish

photo # ~~132~~ 131 camera 1

8-18-09

8-18-09 S. Fowler

14:20 white sucker identification
identification from Werner 2004
(catfish ID also)
- 12 principal rays on dorsal (fewer than 19)
- lateral line is complete & well developed.
- lateral line appears to have more than 55 scales.
51 were counted but about an inch and a half of caudal peduncle is destroyed.
- mouth is destroyed - shape of snout cannot be determined
- fewer than 80 scales in lateral line
- more than 10 dorsal rays.
→ counted: (12 dorsal rays)
- has rays in the scales.
radii are evenly dispersed.
- Probable white sucker
- mouth does not extend behind nostral.
- photo # ~~#10~~ 133
(camera 1)

8-18-09

08-18-09 S. Fowler

14:37 Gizzard shad identification
- posteral ray of dorsal fin is missing
- short & blunt snout protuding over mouth
- dorsal fin originates behind pelvic fin
- gizzard shad.
- photo ~~#134~~ #135
- camera 1

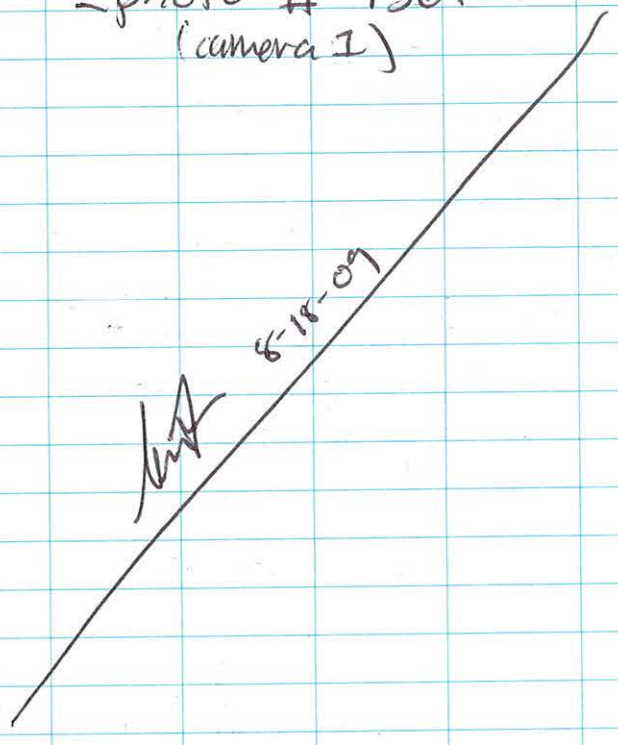
14:45 catfish identification
LPR50-1P002
- free adipose fin
- caudal fin deeply forked
- body w/ black spots
- Shortest rays are less than half length ~~of~~ the longest rays
- lobes of caudal fin are pointed.
- Channel catfish.

14:52 catfish identification
- no adipose fin
- no caudal fin →

8-18-09.

8-18-09 S. Fowler

- no barbels on chin
- no anal fin
- unknown catfish species.
- posterior edge of pectoral spine has stout barbs. ~5 barbs.
- possible brown bullhead.
- photo # 136. (camera 1)



8-19-09 S. Fowler

1451 Calibrate Scale #1
10g weight = 10g
50g weight = 50g
200g weight = 200g
Calibrate scale #2
10g weight = 10g
50g weight = 50g
200g weight = 200g.

1523 Mumichog photos
camera I # 137, 138

1556 Darter Identification Matt Luxon
Daniel Diedrich

9 V-shaped dark marks horizontally on side
Black teardrop mark under eye
Rear dorsal fin 13 rays
8/19/09
DJD

Pointed snout
Tessellated Darter confirmed 1603

Length: 51 mm
Weight: 1.1g
Photo 140 from camera #1

DJD, [signature] 8-19-09

~~8-19~~ SF 8-20-09 S. Fowler

1615 calibrate scale #1
10g weight = 10g
50g weight = 50g
200g weight = 200g
Calibrate Scale #2
10g weight = 10g
50g weight = 50g
200g weight = 200g
Calibrate 60g purple Scale
(hanging balance)
100mg weight >0mg, <0.5~~mg~~ SF g
500mg weight. 0.5~~mg~~ SF g
10g weight = 10g.

[signature] 8-20-09

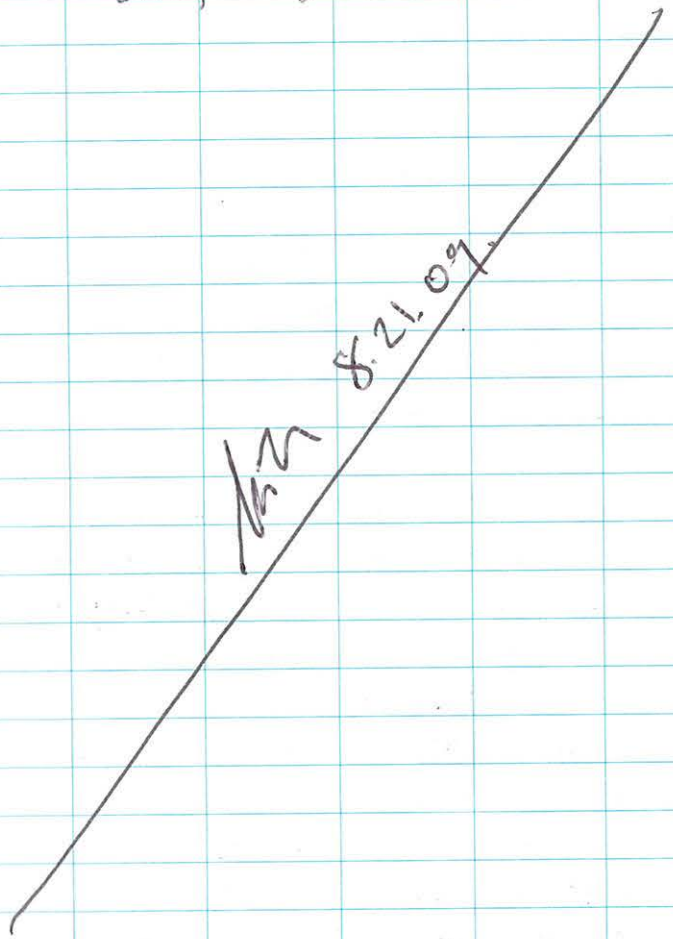
8-21-09 S. Fowler

calibrate Scale #1

10g weight = 10

50g weight = 50

200g weight = 200



8-22-09 S. Fowler

calibrate scale #1

10g weight = 10g.

50g weight = 50g

200g weight = 200g

Calibrate scale #2

10g weight = 10g

50g weight = 50g

200g weight = 200g.

~~calibrate~~

~~400g weight =~~

SF

Specimen Identification

- Dorsal fin fewer than 12 rays
- No cartilaginous ridge on lower jaw
- More than 10 on lateral line (pores)
- No barbels
- lower jaw no lobes
- strait lateral line, not bent downward
- Silvery body color
- No sensory canals on lower jaw
- 36 scales on lateral line
- Closely attached 1st and 2nd dorsal rays

8/22/09 D. DIEDRICH

Specimen ID cont. LPR5B-NH001

- U-shaped jaw
- 8 anal rays
- No dark spots on dorsal fin
- Diameter of eye is more than 1/4 the headsize
- Dark spot at base of caudal fin
- Snout overhangs mouth

Confirmed species:

- Spottail shiner Notropis hudsonius

Photo # 144 Camera 1

wt: 2.0 g Lng: 62 mm

Specimen ID LPR5P-NH002

- 8 rays on dorsal fin
- No cartilaginous ridge on lower jaw
- More than 10 pores on lateral line
- No barbels
- Strait lateral line
- Silvery body color
- No sensory canals on lower jaw
- 34 scales on lateral line (<50)
- Closely attached 1st and 2nd lateral line
- U-shaped jaw
- 8 anal rays

8/22/09 Specimen ID cont. D. DIEDRICH

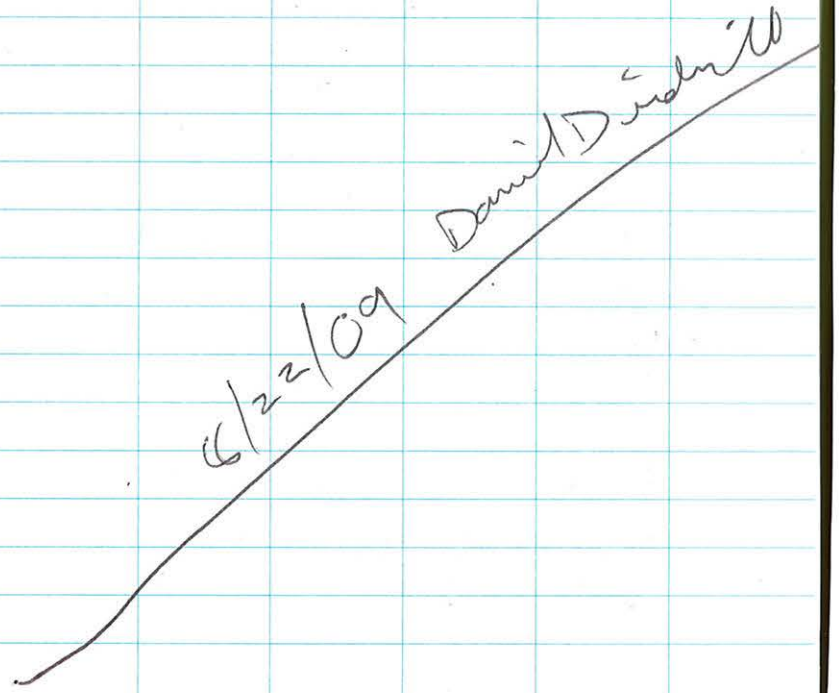
- No dark spots on dorsal fin
- Diameter of eye is more than 1/4 the headsize
- Dark spot at base of caudal fin
- Snout overhangs mouth

Confirmed species:

- Spottail shiner Notropis hudsonius

Photo # 145 camera 1

wt: 9.0 g Lng: 100 mm



08.25.09 TRD

Calibrate electronic scale

1g = 0g
5g = 4g
20g = 20g
100g = 100g
200g = 198g

Specimen ID LPR6C-NH003

- 8 rays on dorsal fin
- no cartilaginous ridge on lower jaw
- more than 10 pores on lateral line
- no barbels
- Straight lateral line
- silvery body color
- no sensory canals on lower jaw
- 34 scales on lateral line (<50)
- closely attached 1st & 2nd lateral line
- U-shaped jaw
- 8 anal rays
- no dark spot on dorsal fin
- diameter of eye is more than ¼ the head size
- dark spot at base of caudal fin
- Snout hangover mouth

Confirmed species:
Spottail Shiner Notropis hudsonius

8.25.09 Clarenz

Specimen ID cont.
photo #128 camera 1

wt: 1.5g Lng: 58mm

EXTERNAL AND INTERNAL HEARTH ASSESSMENT COMPLETE
DD, CL

SPECIMEN ID LPR FH LG 002
- STIFF OPERCULAR BONE
- YELLOW SHADING TO ORANGE
- BLUE OPERCULAR FLAP
- Dusky thumbprint on hind dorsal
- Long pointed pectoral fins

Confirmed Species ID to Bluegill
Lepomis machochirus
PHOTO #129
weight: 78g

D Diedrich
R Berg

8/25/09 Health Assessment
1535 RB, DD
LPR6L-MD005
Length: 270 mm
Weight: 0.225 kg

Photo 132 Camera 1
Photo 133, 134, 136
Small-mouth bass

1605 Health Assessment ID: LPRCP-MD004
DD, RB trot line
PHOTO 137 CAMERA 1

LENGTH: 308 mm Weight
WEIGHT: 350 g

R Berg

8/25/09 Health Assessment
1641 LPR6M-LG001
RB, DD
Photo 143 Camera 1

Length: 120 mm
Weight: 34 g

Pumpkin seed
Orange belly, brown back

1705 Specimen ID LPR6R-AC009
Photo 145 Camera 1
DD, RB

Deeply forked caudal fin
Adipose fin end free of back
No black spots on body
22 rays on anal fin

AC confirmed

8/25/09 R Berg
1714 Specimen ID LPR6Q-IP003
Photo 146 Camera 1
RB, DD

18 anal fin rays
Deeply forked caudal fin
Free adipose fin
Dark spots scattered on side

3 defining characteristics of channel, but has fewer anal rays than typical.
Anal fin squared off
Photo 147. Camera 1
- Anal fin
Photo 148
- detached adipose fin
Photo 149
- Deeply forked caudal fin
Photo 150
- Dark spots on side
Photo 151
- Dark chin barbels, eroded

8/25/09 R Berg
1735 Specimen ID LPR6S-AN002
Photo 152 Camera 1
RB, DD

Detached adipose fin
Caudal fin undetermined (eaten off)
25 anal rays
Posterior edge of pectoral spine has stout barbs
13 gill rakers

Brown bullhead (AN)
Ameiurus nebulosus
Confirmed

8/25/09 R Berg

1746 Specimen ID LPR6R-AC008
Photo 153 Camera 1
RB, DD
White marbles
Detached adipose fin
Caudal fin distinctly forked
No black spots on body
22 anal rays
Lobes of tail bluntly pointed
White Catfish (AC)
Confirmed

8/25/09
R Berg

8/26/09 R Berg

1121 Health Assessment
LPR6L-CC099
Picture 154 Cam 1
Weight: 2005 g
Length: 531 mm
Carp
(Press present)
DD, RB

1208 HEARTH ASSESSMENT
LPR6N-CC044
PICTURE 155 CAMERA 1
WEIGHT: 2950 g
LENGTH: 591 mm
Carp
RB, DD

1248 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 202g

8.26.09 C Lorenz

1253 Specimen ID LPR7F-LA001
Photo 157, camera 1
CL, DD
Redbreast Sunfish Lepomis auritus
- forked tail
- 3 anal spines
- body depth 2x standard length
- short pectoral fin reaches no further than eye
- earflap entirely blue
- no large dusty spot on dorsal fin
- turquoise bands radiate across head

Species changed: Redbreast Sunfish, LA
Length: 158 mm Weight: 74 g

Health Assessment
photo 156 camera 1
LPR7L-CC060
Wt: 2200
Ht: 529
Carp
CL, DD

1301 Scale 2 Calibration

10g reads 10g
50g reads 50g
200g reads 200g

8.26.09 Clorenz

1344 Health Assessment
photo 157, camera 1
CL, DD
LPR7F-LA001
Redbreast Sunfish
L: 158 mm W: 74 g

1445 Health Assessment
photo 162, 163; camera 1
DD, CL
LPR6L-MD006 Smallmouth bass
W: 344 g L: 312 mm

1500 Health Assessment
photo 164, camera 1
DD, CL
LPR6Q-SB004 Striped bass
W: 70 g, L: 187 mm

1545 Species identification LPR6D-LM002
W: 0.3 g L: 31 mm
DD, CL
photo 172, camera 1
ID as: Bluegal (LM)
- too small for health assessment

8.26.09 Clorenz

1554 Specimen ID LPR6B-LM003
W: <1 g, L: 28 mm
photo 173, camera 1
CL, DD
ID as bluegill
- too small to do health assessment

8.26.09
Clorenz

08/27/09 R Berg

1042 Scale 2 calibration
10g reads 10g
50g reads 50g
200g reads 200g

1045 60g max Pesola Scale Calibration

1.0g reads 1.0g
2.0g reads 2.0g
10.0g reads 10.0g
20.0g reads 20.0g

8/27/09 R Berg

1050 Health Assessment
Specimen: LPR60-SB005
Photo 174 Camera 1
RB, DD
Length: 313 mm
Weight: 362 g
Photo 176-181 Camera 1

1128 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1339 Health Assessment
Specimen: LPR7R-WS001
Photo 182 Camera 1
Key ID confirm
- 12 caudal rays, fewer than 20
- Lateral line complete + well developed
- More than 55 scales in lateral line
- Less than 80 scales in lateral line
- Posterior end of mouth
Catostomus commersoni
White sucker confirmed

C Lorenz

8/27/09 D Diedrich R Berg

Heath Assess Cont.
RB, DD
Length: 372 mm
Weight: 496 g

1241 Health Assessment
RB, CL
LPR 7U-LG003 Pumpkin Seed
Length: 136 mm weight: 50g
photo 183, camera 1

1500 Health Assessment
DD, CL
LPR 7U-LG 002 Pumpkin Seed
Length: 116 mm Weight: 40 g
Photo 184 camera 1

8/27/09

Diedrich

8/28/09 R Berg

0946 Scale 2 calibration

10 g reads 10 g
50 g reads 50 g
200 g reads 200 g

0948 Scale 1 calibration

10 g reads 10 g
50 g reads 50 g
200 g reads 200 g

1052 Specimen ID
LPR TI-OL001
Length: 81 mm
Weight: 20 g

Elongate rostrum
Spikes on cheeks
Spinycheek crayfish
Confirmed
Photo 186 Camera 1

08/28/09

R Berg
Daniel Diedrich

1100 Health Assessment
RB, DD
LPR 6I-LG004
Length: 129 mm Weight: 48 g
Photo: 187 camera 1

1123 Health Assessment
RB, DD
LPR 6J-LG005
Length: 107 mm
Weight: 24 g
Photo 188, camera 1

08/28/09

Diedrich

08/29/09

Daniel Diedrich

1248 Scale Calibration: Scale 1

10 g	reads	10 g
50 g	reads	50 g
200 g	reads	200 g

DD

1252 Scale Calibration: Scale 2

10 g	reads
50 g	reads
200 g	reads

DD

8/29/09

R Berg

09/01/09 R Berg

1530 Scale 1 Calibration

10g reads 10g
50g reads 50g
200g reads 200g

1532 Scale 2 Calibration

10g reads 10g
50g reads 50g
200g reads 200g

1541 Health Assessment RB
Specimen LPR2K-PS004
Photo 190 Camera 1
Length: 345 mm
Weight: 504 g

R Berg RB

1610 Health Assessment
Specimen LPR2K-PS001
Photo 191 Camera 1
Length: 370 mm
Weight: 486 g

1637 Health Assessment RB
Specimen LPR2K-PS002
Photo 192 Camera 1
Length: 335 mm
Weight: 386 g

1658 Health Assessment RB
Specimen LPR1I-PS005
Photo 193 Camera 1
Length: 345 mm
Weight: 398 g

1721 Health Assessment CL, RB
Specimen LPR2K-PS003
Photo 194 Camera 1
Length: 360 mm
Weight: 420 g

09/01/09 R Berg

1738 Health Assessment CL, RB
Specimen LPR1D-MM001
Photo 195 Camera 1
Length: 88 mm
Weight: 3.5 g

1754 Health Assessment
Specimen LPR2C-MM001
Photo ~~195~~ RB 196 Camera 1
Length: 93 mm
Weight: 6 g

1804 Health Assessment
Specimen LPR10-GX001
Photo 197 Camera 1
Length: 59
Weight: 2

Specimen ID LPR10-GX001

1 anal fin
Pelvic fins joined into single fin
Goby family
Species indeterminant

R Berg

1831 Health Assessment, RB, CL
Specimen ID: LPR2R-MM004
Atlantic Silverside
L: 87 mm W: 4 g
(photo 198, camera 1)

1845 Health Assessment, RB, CL
Specimen ID: LPR2R-MM005
Atlantic Silverside
L: 87 mm W: 4 g
(photo 199, camera 1)

1855 Health Assessment, CL, RB
Specimen LPR2R-MM003
Atlantic Silverside
Photo 202 Camera 1
Length: 65 mm
Weight: 1.5 g

C Lorenz
R Berg

9/01/09

1909 Health Assessment CL, RB
Specimen LPR1J-TH001
Photo 203 Camera 1
Length: 114 mm
Weight: 50g

1932 Health Assessment CL, RB
ID: ~~LPR1J~~ LPR1J-BT008
L: 324 mm W. 296
(photo 204, camera 1)

1949 Health Assessment CL, RB
Specimen LPR1K-CR001
Photo 205 Camera 1
L: 226 mm
W: 110 g

09/01/09
R Berg

9/02/09

R Berg

Scale 1 Calibration

10g reads 10g
50g reads 50g
200g reads 200g

Scale 2 Calibration

10g reads 10g
50g reads 50g
200g reads 200g

09/2/09 — C Lorenz, R Berg

1833 Health Assessment CL, RB
Specimen: LPR1B-GX002
W: 0.5g L: 45mm
Photo 206 Camera 1

1844 Health Assessment CL, RB
Specimen: LPR20-GX003
Photo 207 Camera 1
W: 0.3g L: 34mm

1848 Health Assessment CL, RB
ID: LPR2E-GX004
L: 33mm W: 0.3g
photo: 208, camera 1

1900 Specimen ID
LPR1B-
L: 45mm W: 0.7g
Camera 1, photo 209
→ unidentified

9/2/09
R Berg

09/03/09 — R Berg

1600 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

Scale 2 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1613 Health Assessment RB
Specimen LPR10-GX005
Photo 210 Camera 1
W: 0.5g L: 37mm

1647 Health Assessment CL, RB
Specimen: LPR2K-WF001
Photo 211 Camera 1
W: 44g L: 159
Specimen ID Winter Flounder
Confirmed: Eyes on right side

Clarenz

1722 Health Assessment CL, RB
LPR-7B-CH001 Crevalle Jack
photo 209, camera 1
L: 49 mm W: 0.7g

9/3/09

RB 9/3/09

Clarenz 9.4.09

1422 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g
1g reads 0g
Scale 2 Calibration
1g reads 0g
5g reads 4g
10g reads 10g
50g reads 50g
200g reads 200g

1523 Health Assessment RB, CL
LPR1K-WF002
L: 203mm W: 92g
photo 212, camera 1

9/4/09 — S Replinger & Berg

Health Assessment SR, RB

1636 Specimen ~~LPR1Q~~ LPR1J-WF003
Photo 213 ~~Pic~~ Camera 1
Length: 159 mm Weight: 48g

1647 Speciman LPR10-PC001 (Northern Sea Robin)
Health Assessment. RB, SR
Photo 215 Camera 1
Length: 38mm Weight: 0.5g

1700 Speciman ID'd BC (silver perch).
~~Health Assessment.~~ (SR)
Defining characteristics: silvery, darker above & pale yellow fins. Dark stripes run parallel to lateral line on rear part of body.

1702 Health Assessment. Specimen LPR1Q-BC001 (silver perch).
Photo 216 Camera 1 SR, RB
Length: 39 mm Weight: 0.6g

09/04/09

R Berg

09/05/09 — Clorenz

1515 Scale 1 Calibration

1g	reads	0g
5g	reads	4g
10g	reads	10g
50g	reads	50g
200g	reads	200g

Scale 2 Calibration

1g	reads	0g
5g	reads	6g
10g	reads	10g
50g	reads	50g
200g	reads	200g

09/05/09

R Berg

M Yarnes
R Berg

09/07/09

1507 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

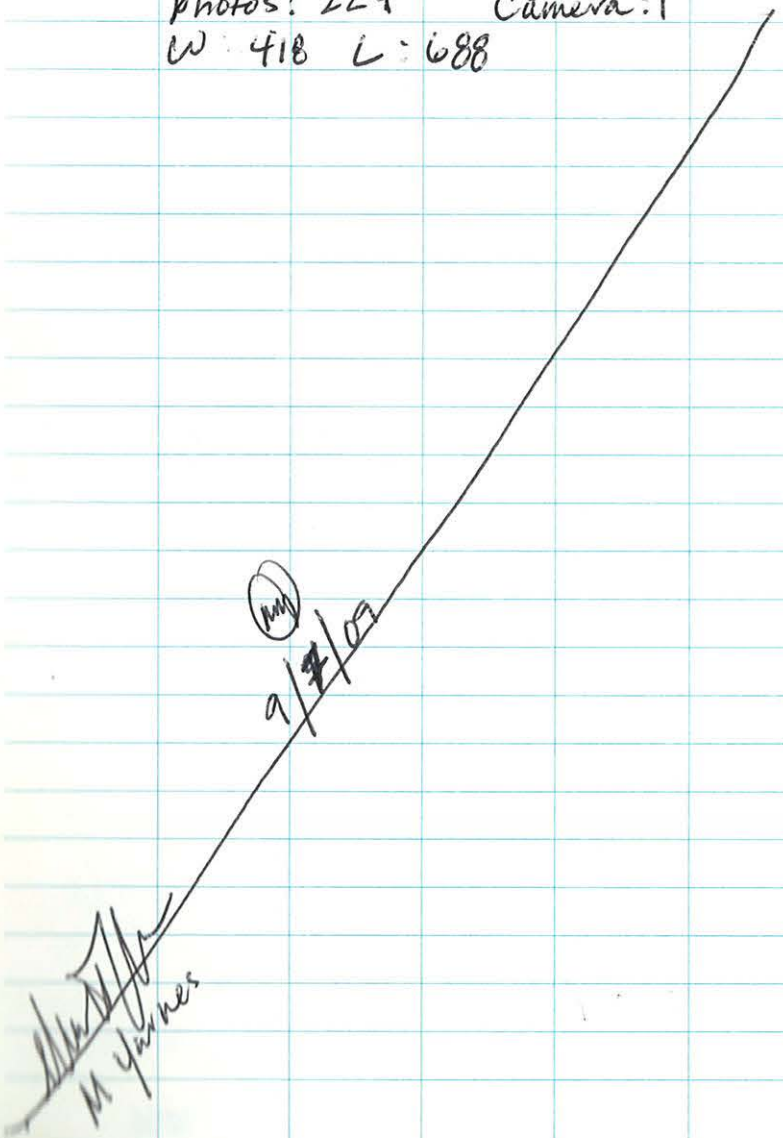
1509 Scale 2 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1516 Health Assessment m yarnes
Specimen: LPR8X-LM003
Photo: 217 Camera 1
W: 22g L: 101 mm

1531 Health Assessment m yarnes
Specimen: LPR-8V-LM002
Photos: 218, 219 Camera 1
W: 58 L: 140

1547 Health Assessment m yarnes
Specimen: LPR8X-MD007
Photos: 221 Camera: 1
W: 176 L: 262
Photo: 226 → parasites

1601 Health Assessment M Yarnes
Specimen: LPR8X-WS005
Photos: 227 Camera: 1
W: 418 L: 688



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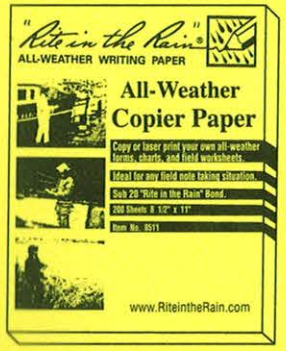

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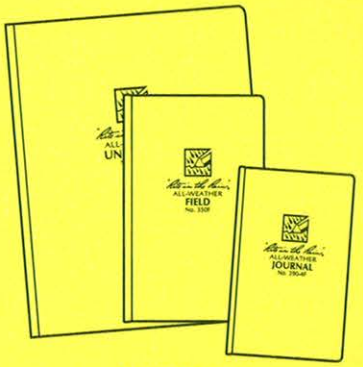

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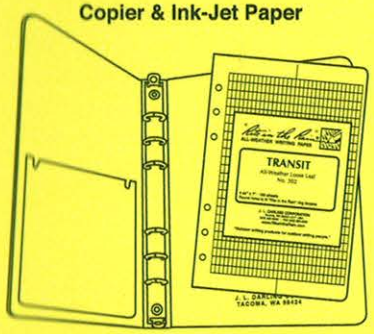

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CONTENTS

PAGE	REFERENCE	DATE

09/08/09 R Berg S. Replinger

1206 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1207 Scale 2 calibration
10g reads 10g
50g reads 50g
200g reads 200g

1210 Health Assessment RB, SR
LPR8R-CC126
Camera 1, Photo 252
Length: 545 mm Weight: 2603g

1212 Health Assessment DD, SR
LPR8R-CC125
Camera 1, Photo 253
Length: 713 mm Weight: 4550g

1315 Health Assessment BD, SR
LPR8W-LA002 (Red Breasted Sunfish)
Camera 1, Photo 232
Length: 147 mm Weight: 54g

9/8/2009 S. Replinger

1315 Health Assessment ~~DD~~ RB (SR), SR (SR)
LPR8W - LM004 ~~(Red breasted Sunfish)~~ bluegill
Camera 1, Photo 233
Length: 116 mm Weight: 28g

1325 Health Assessment RB, SR
LPR8W-LA003 (Red breasted sunfish)
Camera 1, Photo 234
Length: 143mm, Weight: 50g

1327 Health Assessment DD, SR
LPR8X-MD008
Camera 1, Photo 235, 237, 238
Length: 279 mm Weight: 266g

1437 Health Assessment M. Yarnes
LPR8Y - LA004
Camera 1, Photo 239
L: 101 mm W: 18g

9.8.09
S. Replinger

9.9.2009 S.Replinger

1305 Scale 1 calibration
10 g reads 10g
50 g reads 50g
200 g reads 200 g

1308 Scale 2 calibration
10g reads 10g
50g reads 50g
200 g reads 200g

1309 Pesola Scale calibration (2500g)
100 g reads 100g
300 g reads 300g

1310 Pesola Scale calibration (100g)
10 g reads 10g
70 g reads 70g

1441 Health Assessment M. Yarnes
LPR8V - AR177
Camera 1 Photo: 240, 241
L: 241 mm W: 24 g

1500 Health Assessment M. Yarnes
LPR8V - AR176
Camera 1 Photo: 242
L: 258 mm W: 26g

1517 Health Assessment M Yarnes
LPR8V - LM005
Camera 1 Photo: 243
L: 82 mm W: 9.2 g

1527 Health Assessment M. Yarnes
LPR82 - CA001
Camera: 1 Photo: 244
L: 79 W: 4.5

1537 Health Assessment M Yarnes
LPR8V - LA005
Camera 1 Photo: 245
L: 146 W: 53

9/9/09

Mike Yarnes

9.9.2009 S. Replinger

Fish Identification: Rock Bass
Speciman ID: LPR8Y-RB001
Defining characteristics:
- 5-7 anal spines
- base of anal fin much shorter than base dorsal fin
- dark olive back and light olive underside.
- red eye

Fish Identification: Satinfin Shiner
Speciman ID: ~~LPR8R~~ BR2 LPR8Z-CA001
Defining characteristics:
- 9 anal rays
- dark pigmentation between last 3 rays of dorsal fin.

S. Replinger 9.9.09

9.10.2009 S. Replinger

1301 Scale 1 calibration
10g reads 10g
50g reads 50g
200g reads 200g

1302 Scale 2 calibration
10g reads 10g
50g reads 50g
200g reads 200g

1303 Pesola scale calibration. (1000g)
50g reads 50g
300g reads 300g

1305 Pesola scale calibration (60g)
10g reads 10g
60g reads 60g

1419 Specimen ID
LPR8Z-MD010
Greater than 55 scales along lat line
Small-mouth Bass
3 anal spines, 9 dorsal spines

9.10.09 R Berg

1423 Specimen ID
LPR8Z-E0010
13 rays in 2nd dorsal fin
9 W-shaped markings on sides
Pointed snout
Tessellated darter
W: 1g L: 49mm

1430 Specimen ID
LPR8Z-0L002
Points on cheeks
View of 1st pleopod
W: 2.3g L: 4#mm

1452 Specimen ID
LPR8Y-RB002
Photos 246, 247 Cam 1
Rock Bass ID Confirmed

Specimen ID
LPR8A-LM
Photo 248 Cam 1
3 anal spines
Long pointed pectoral fins
Juvenile bluegill

9/10/09
David Diedrich

9/11/09 Daniel Diedrich

0857 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

Scale 2 Calibration
10 g reads 10 g
50 g reads 50 g
200 g reads 200 g

1233 Health Assessment SR, DD
LPR8Z-CA002 (sahnfn shiner)
Camera 1, Photo 250
Length = 85mm, Weight = 6g

1242
~~1342~~ Health Assessment DD, SR
SR
LPR8Z-CA003 (sahnfn shiner)
Camera 1, Photo 252
Length = 85mm, Weight = 6g

1250 Health Assessment DD, SR
LPR8Z-NH005 (spottail shiner)
Camera 1, Photo 253
Length = 93mm, weight = 7g

9.11.09 S. Replinger

1257 Health Assessment DD, SR
LPR8Z-NH004 (spottail shiner)
Camera 1, Photo 254
Length = 93 mm, Weight = 8g

9.11.09
S. Replinger

9.12.09 R Berg T. DO

1240 Scale 1 calibration
10g = 10g
50g = 50g
200g = 200g

Scale 2 calibration
10g = 10g
50g = 50g
200g = 200g

1315 Specimen ID
LPR8X-DC001
Photo 255, 256 Cam 1
W: 1330g L: 475 mm

Greatly elongated posterior ray on dorsal fin.
Scutes on ventral midline.
Gizzard shad confirmed

9/12/09 R Burg

1444 Specimen 10
LPR8V-ES001
Crab Photo 257 cam 1
hairy claws w/ white tips.
notch between eyes.
four lateral carapace spines
round carapace shape
light brown
W: L:
Chinese mitten crab
Eriocheir sinensis
(invasive)

9/12/09
R Burg

9/15/09 M Yarnes

1123 Scale1 Calibration

10g = 10g
50g = 50g
200g = 200g

Scale 2 Calibration
10g = 10g
50g = 50g
200g = 200g

9/15/09
R Burg

9/16/09 R Berg

1139 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1140 Scale 2 calibration
10g reads 10g
50g reads 50g
200g reads 200g

9/16/09
R Berg

09/17/09 R Berg

1303 Scale 1 Calibration
20g reads 20g
50g reads 50g
200g reads 200g

1304 Scale 2 Calibration
20g reads 20g
50g reads 50g
200g reads 200g

9/17/09
R Berg

R Berg
TTD

09.18.09

1514 Scale 2 calibration
20g = 20g
50g = 50g
100g = 100g
200g = 200g

1521 Scale 2 calibration
20g = 20g
50g = 50g
100g = 100g
200g = 200g

1538 Specimen ID
LPR5R - EL002
Photo 258 Camera 1
L: 330 mm W: 160 g
No dark vertical bar under eye.
Cheek completely scaled.
Dark markings on caudal & dorsal fins.
Lower half of opercle scaleless.
Light spots on body.
Fewer than 5 mandibular pores (4).
Branchialstegal rays (15).
Northern pike ID confirmed

09/18/09

R Berg

1606 Specimen ID
LPR5Q-
Photo 259 Camera 1
L: 86 mm W: 6g
No cartilaginous ridge on lower lip.
Lateral line incomplete.
Body rounded.
Pelvic fins rounded.
Body color silvery.
No dark spots on membranes of dorsal fin.
8 anal rays.
Lower jaw U-shaped.
First dorsal ray closely attached to next ray.
Evenly-spaced predorsal scales.
Fewer than 55 scales in lat line.
No obvious sensory canals in head
Spottail shiner ID confirmed

09/18/09 R Berg

1627 Specimen ID
LPR5Q
Photo 260 Camera 1
W: 52 L: 1
Rounded caudal fin.
Pelvic fins lie in advance of dorsal fin.
Scales on head.
No lateral line.
Banded killifish

1723 Health Assessment RB, DD
Specimen LPR5R-CC164
L: 458 mm W: 2262 g
Photo 261 Camera: 1
Stomach content
Mostly intestine content
Photo 262 Camera 1
4 g
Unidentifiable - not kept

09/18/09 R Berg

1751 Health Assessment
LPR5T-CC171
Photo 263 Camera 1
W: 1276 g L: 464 mm
Stomach content
Feces only, unidentifiable, not kept

9/18/09

R Berg

09/19/09 R Berg

1548 Scale 1 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1549 Scale 2 Calibration
10g reads 10g
50g reads 50g
200g reads 200g

1551 Specimen ID
LPR4S-PN001
Photo 264 Camera 1
L: 161 mm W: 59g
8 dorsal rays.
Length of anal fin base not equal to length of dorsal fin base.
Distance from rear of eye to base of 1st dorsal spine = length of dorsal fin base.
Irregular dark markings.
Black crappie confirmed
Pomoxis nigromaculatus
6 anal rays.
Caudal fin slightly forked.

9/19/09 R Berg

1635 Health Assessment RB, DD
LPR6H-PN003
Photo 265 Camera 1
W: 49g L: 152 mm

1651 Health Assessment RB, DD
LPR4S-PN002
Photo 268 Camera 1
W: 33g L: 134 mm

1703 Health Assessment RB, DD
LPR4S-PN001
Photo 269 Camera 1
W: 59g L: 161 mm

1712 Health Assessment RB, DD
LPR5R-DC003
Photo 273 Camera 1
W: 40g L: 160 mm

~~Health Asst~~ RB

1720 Health Assessment RB, DD
LPR5Q-MC001
Photo 274 Camera 1
W: 59g L: 172 mm

09/19/09 R Berg

1720 Specimen ID
LPR5Q-MC001
Photo 274 Camera 1
W: 59g L: 172mm
Anal fin has 3 spines & 8 soft rays.
Axillary area of pectoral fin bluish.
Dorsal & anal fins unscaled.
2nd dorsal fin begins directly above point where anal fin begins.
Striped mullet ID confirmed
Mugil cephalus

9/19/09

Berg

FIELD NOTES FOR OCTOBER 13, 2009

10/13/09 A. Rodriguez

0900 Arrive @ field facility

0950 YSI 650 MDS Calibration
Saline Solution = 25 ppt
Calibrate salinity = 24.95 ppt
Arrive @ Rutherford floating dock
Weather: Overcast, wind, 60's
Field crew: Angelita Rodriguez (ww)
Matt Shappel (ASI) Captain
Tim Iannuzzi (ARCADIS)
Stephanie Vaughn (EPA)
Chuck Nace (EPA)
Anne Hayton (NJDEP)
Reyhan Mehran (NOAA)
Brian Gillen (
John Rolfe (dnr)

1018 Conduct Health & Safety meeting

1029 Head downstream for mummichog recon to select locations to set traps

1115 Mummichog location #1, east bank mudflat, set 6" water 692642N
Salinity = 4.91 ppt 588762E
Temp = 16.11°C
Cond = 8703 uS/cm

10/13/09 A. Rodriguez

1125 Chuck deploys & retrieves cast net 3 times & catches Atl. Silversides (~10) striped bass (1) near the mummichog location #1
5" radius, 10' net, 1/4" mesh

1136 Mummichog location #2, east bank ~RM3.5 mud flat w/ phragmites present in bank upstream of NJ/NY building
694102N 590845E
Salinity = 6.14 ppt
Temp = 16.6°C
Cond = 10649 uS/cm
Chuck deploys & retrieves cast net 4 times after boat disturbed the area, no fish catch

1145 Mummichog location #3, west bank ~RM3.3, mud flat w/ metal bulkhead upstream of Diamond Alkali
694928N 592584E
Salinity = 6.7 ppt
Temp = 17.3°C
Cond = 11713 uS/cm
Chuck caught 3 Atl. Silversides, 2 casts

10/13/09 A. Rodriguez

1154 Mummichog location #4, west bank ~RM 2.5 mud flat w/vegetated bank, adj to Turnpike NJ bridge ~~6~~ (AR) Temp = 16.82°C
Salinity = 7.91
Cond = 13631 uS/cm
695254N 596290E
Chuck deploys & retrieves cast net twice, no fish catch

1204 Mummichog location #5, west bank ~RM 2.7 mud flat w/ vegetated (phrag) bank
Morris Canal comes into Passaic River upstream from (R) ~~RT~~ Pulaski Bridge
Temp = 16.39°C
Salinity = 9.21 ppt
Cond = 15648 uS/cm
692987N 597403E
Chuck deploys & retrieves net 4 times & catches a white perch.

1220 Mummichog location #6, east bank @ Kearny Point ~3" water mud flat w/ riprap & vegetated (phrag) bank ~RM 0

10/13/09 A. Rodriguez

Mummichog location #6
Temp = 16.69°C
Salinity = 13.21 ppt
Cond 21712 uS/cm
686662N 598118E
Chuck deploys & retrieves cast net 6 times & caught Atl Silversides

1225-1310 Complete deploying all mummichog traps @ selected agencies (NOAA, EPA) locations; wait to allow traps to soak; bolognae bait was used

1310 Retrieve Mummichog trap @ location #6; no fish catch
Water depth = 2.5 ft

(LPR 2A)
1321 Retrieve Mummichog trap @ location #5
Water depth = 3.9 ft. Morris Canal
2 mummichog + 1 Atl. Silverside
Soak time ~ 1 hr

1327 Retrieve Mummichog trap @ location #4
Water depth = 3.5 ft; no fish catch

10/13/09 A. Rodriguez

Location #4, Chuck deploys & retrieves cast net twice & catches 2 white perch

1336 Location #3, retrieve mummichog trap, water depth = 3.3 ft, empty no fish catch
Chuck deploys & retrieves cast net (2) no fish catch

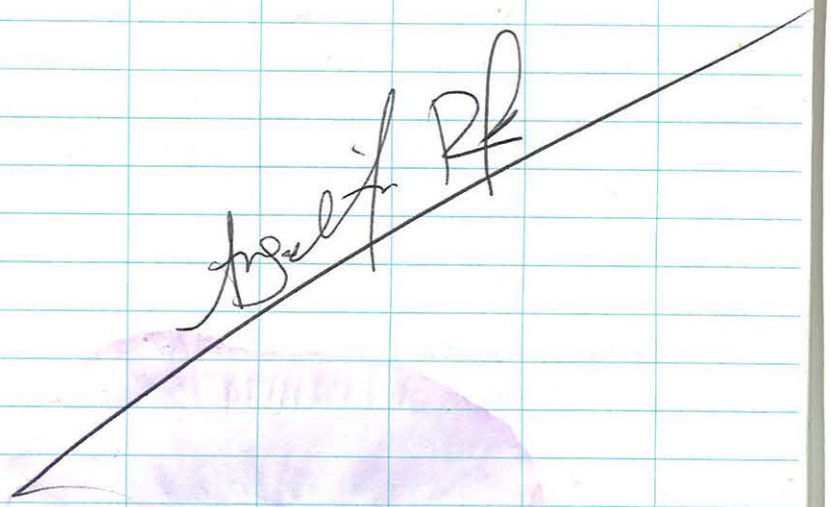
1342 Location #2, retrieve mummichog trap, water depth = 6 ft, no fish
Chuck deploys & retrieves cast net (3) & catches Atl. Silverside, white perch, mud crab

1349 Location #1, retrieve mummichog trap; water depth = 3.2 ft, no fish
Chuck deploys & retrieves cast net 3 times & catch Blue Menhaden (1)

1354 Head back to the Rutherford dock & field facility

10/13/09 A. Rodriguez

1428 Return to dock & end of sampling day



APPENDIX C: NOTES FOR EACH SAMPLING LOCATION

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
Reach 1			
LPR1A	east bank	minnow trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1B	east bank	minnow trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1D	west bank	minnow trap	shallow mudflat with some riprap
LPR1F	east bank	trotlines	metal bulkhead downstream of partially submerged barge and upstream of bridge; approximately RM 1.8; deeper water
LPR1G	west bank	trotlines	riprap, vegetation; between two barges; deeper water
LPR1H	west bank	trotlines	concrete wall with riprap and some vegetation; approximately RM 0.8
LPR1I	west bank	gillnet	riprap, vegetation; deeper water; approximately RM 1.5
LPR1J	west bank	gillnet	concrete bulkhead, vegetation; deeper water; downstream of old railroad bridge and near rusted barge; approximately RM 0.9
LPR1K	west bank	gillnet	large riprap, vegetation, downstream of old loading docks; deeper water; approximately RM 0.4
LPR1L	east bank	crab trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1M	east bank	crab trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1N	west bank	crab trap	shallow mudflat with some riprap
LPR1O	east bank	eel trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1P	east bank	eel trap	aquatic vegetation along shoreline; substantial mudflat at Kearney Point
LPR1Q	west bank	eel trap	shallow mudflat off a steep bank with some riprap near (west) of G.J. Chemical Company
LPR1R	east bank	dip net	vegetated shallow mudflat; approximately less than 1-ft water depth; approximately 50 ft in length
Reach 2			
LPR2B	west bank	minnow trap	shallow mudflat between I-295 and Point No Point bridges
LPR2C	west bank	minnow trap	vegetated shoreline with riprap and shallow mudflat
LPR2E	east bank	minnow trap	vegetated shoreline, shallow mudflat area
LPR2F	west bank	trotlines	riprap, vegetation; pipe terminates at river; RM 3.8; deeper water
LPR2G	east bank	trotlines	riprap, vegetation, large woody debris; near submerged pilings; RM 3.3; deeper water

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
LPR2H	east bank	trotlines	riprap, wood debris, vegetation, trash; downstream of bridge; deeper water; approximately RM 2.4
LPR2I	west bank	gillnet	riprap, overhanging trees and vegetation, woody debris; RM 3.9; deeper water
LPR2J	east bank	gillnet	wooden bulkhead with riprap and overhanging vegetation; approximately RM 2.8; deeper water
LPR2K	east bank	gillnet	old pier, riprap, overhanging vegetation; deeper water; approximately RM 2.3
LPR2L	west bank	crab trap	shallow mudflat between I-295 and Point No Point bridges; riprap
LPR2M	west bank	crab trap	vegetated shoreline with riprap and shallow mudflat
LPR2N	east bank	crab trap	vegetated shoreline, shallow mudflat area
LPR2O	west bank	eel trap	shallow mudflat between I-295 and Point No Point bridges; riprap
LPR2P	west bank	eel trap	vegetated shoreline with riprap and shallow mudflat
LPR2Q	east bank	eel trap	vegetated shoreline, shallow mudflat area
LPR2R	west bank	dip net	vegetated shallow mudflat; approximately 1-ft water depth; approximately 50 ft in length; upstream of bridge
Reach 3			
LPR3A	east bank	minnow trap	mudflat area, shallow water, aquatic vegetation nearby
LPR3B	east bank	minnow trap	mudflat area, shallow with riprap on bank
LPR3C	west bank	minnow trap	mudflat area shallow, surrounded by concrete wall
LPR3F	east bank	crab trap	large chunks of cement, exposed wood, come overhanging vegetation, deeper water
LPR3G	west bank	crab trap	wooden bulkhead, deeper water, no overhanging vegetation
LPR3H	east bank	crab trap	riprap, pilings, some vegetation, deep water
LPR3I	west bank	eel trap	riprap, small exposed mudflat area, some overhanging vegetation, deep water
LPR3J	east bank	eel trap	wooden bulkhead, deeper water, no overhanging vegetation
LPR3K	west bank	eel trap	riprap, no overhanging vegetation, wood pilings, deep water
LPR3L	east bank	trotline	steel bulkhead, deeper water, minimal overhanging vegetation
LPR3M	mid-channel	gillnet	deep water, vegetation along banks

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
LPR3N	mid-channel	gillnet	deep water, vegetation along banks
LPR3O	mid-channel	gillnet	deep water, vegetation along banks
LPR3P	west bank	trotline	wooden bulkhead, deeper water, no overhanging vegetation
LPR3Q	west bank	trotline	steel bulkhead, no overhanging vegetation, deeper water
Reach 4			
LPR4B	east bank	minnow trap	shallow mudflat, riprap, overhanging vegetation along the beach
LPR4C	west bank	minnow trap	steel bulkhead, no vegetation, shallow mudflat
LPR4D	east bank	minnow trap	shallow mudflat, adjacent vegetated shoreline
LPR4F	west bank	crab trap	concrete walls, riprap and cement block (junction) shoreline with shrub/herbaceous mix of vegetation, no shading of river provided
LPR4G	east bank	crab trap	riprap, overhanging vegetation
LPR4H	east bank	crab trap	wood bulkhead, riprap, overhanging vegetation
LPR4I	east bank	eel trap	wooden bulkhead, riprap, overhanging vegetation
LPR4J	east bank	eel trap	riprap, overhanging vegetation
LPR4K	west bank	eel trap	wood bulkhead, overhanging vegetation
LPR4L	east bank	gillnet	wooden bulkhead covered with riprap, debris, trees and shrubs, located upstream from old railroad bridge, deeper water
LPR4M	west bank	trotline	wooden bulkhead with coniferous plants and shrubs on top and several pipes that terminate at the river
LPR4N	east bank	trotline	mudflat (small area), riprap; large woody debris, vegetated with shrubs and trees; wading birds observed
LPR4O	west bank	gillnet	covered with large woody debris, riprap, mud, trees and shrubs; submerged pilings and concrete pipe that terminates in river
LPR4P	east bank	gillnet	rocky with large woody debris, cobbles, overhanging trees
LPR4Q	east bank	trotline	riprap, large trees and shrubs providing shade, large woody debris; located upstream of the Conrail bridge
LPR4R	west bank	boat electrofishing	riprap shore with large woody debris, submerged pilings, small mudflat area
LPR4S	east bank	boat electrofishing	riprap, gravel, wooden bulkhead with overhanging vegetation, large cement blocks

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
LPR4T	east bank	boat electrofishing	riprap, with overhanging vegetation, downstream of Conrail-Arlington bridge
Reach 5			
LPR5A	west bank	minnow trap	adjacent to confluence with second river; cobbles, large rocks; shallow
LPR5B	east bank	minnow trap	shallow mudflat with riprap, overhanging vegetation along the bank
LPR5C	east bank	minnow trap	shallow mudflat, vegetation above the bank, no overhanging vegetation
LPR5E	west bank	gillnet	vegetated with shrubs and trees; some riprap; deep water; located upstream of the Dejessa Bridge
LPR5F	east bank	trotline	shaded with overhanging shrubs, trees with riprap; deeper water; located upstream of the Dejessa Bridge
LPR5G	east bank	gillnet	shaded with overhanging trees, shrubs; riprap covers shoreline; deeper water; located upstream of the fire department; wading birds observed
LPR5H	west bank	trotline	adjacent to McCarter Highway; overhanging trees, shrubs on top of concrete bulkhead shading portions of the river
LPR5I	west bank	gillnet	modified concrete wall with a small mudflat area, debris and tree; deep water
LPR5J	east bank	trotline	mud, gravel, some riprap, aquatic grass, shrubs, trees on bank
LPR5K	east bank	crab trap	riprap and overhanging trees along the bank
LPR5L	east bank	eel trap	riprap and overhanging trees along the bank
LPR5M	west bank	crab trap	concrete wall, some vegetation overhanging the wall
LPR5N	west bank	eel trap	concrete wall, some vegetation overhanging the wall
LPR5O	west bank	crab trap	concrete wall, scattered shrub vegetation
LPR5P	west bank	eel trap	concrete wall with overhanging vegetation
LPR5Q	east bank	boat electrofishing	overhanging vegetation, concrete block structures, next to river county park
LPR5R	east bank	boat electrofishing	overhanging vegetation, riprap, submerged pilings
LPR5S	west bank	boat electrofishing	downstream of gillnet location near the N Arlington bridge, overhanging vegetation, riprap
LPR5T	west bank	boat electrofishing	overhanging trees cobbles, gravel, upstream from the second river
Reach 6			
LPR6A	east bank	minnow trap	shallow mudflat with gravel, overhanging trees and vegetation

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
LPR6B	east bank	minnow trap	shallow mudflat with gravel, overhanging trees and vegetation
LPR6C	west bank	minnow trap	just below confluence with third river; concrete wall, overhanging vegetation
LPR6D	west bank	minnow trap	shallow mudflat with overhanging vegetation and trees
LPR6E	west bank	minnow trap	shallow mudflat with concrete wall with minimal vegetation, underneath Route 3 ramp from Route 21
LPR6F	east bank	crab trap	shallow mudflat with gravel, overhanging trees and vegetation
LPR6G	west bank	crab trap	overhanging trees and vegetation, concrete wall, riprap and mudflat along shoreline
LPR6H	west bank	crab trap	unvegetated shallow mudflat, just south of Conrail-Lyndhurst railroad bridge, trees and shrubs at upper tidal limit
LPR6I	east bank	crayfish trap	shallow mudflat with gravel, overhanging trees and vegetation
LPR6J	west bank	crayfish trap	overhanging trees and vegetation, concrete wall, riprap
LPR6K	west bank	crayfish trap	shallow mudflat just north of Conrail-Lyndhurst railroad bridge
LPR6L	east bank	gillnet	rocky with large woody debris, overhanging trees; deeper water; upstream of Conrail-Lyndhurst draw bridge
LPR6M	west bank	gillnet	large woody debris, overhanging trees; deep hole with deeper water; downstream of confluence with third river
LPR6N	west bank	gillnet	concrete wall adjacent to McCarter Highway with vegetation and overhanging trees
LPR6O	east bank	trotlines	rocky with large overhanging trees, deep hole with deep water
LPR6P	east bank	trotlines	large woody debris; overhanging trees; deeper water; upstream of Conrail-Lyndhurst draw bridge
LPR6Q	west bank	trotlines	concrete wall adjacent to McCarter Highway with vegetation
LPR6R	east bank	trotlines	riprap with overhanging trees, deeper water, downstream of confluence with third river
LPR6S	west bank	trotlines	rock wall with sparse overhanging trees
LPR6T	east bank	boat electrofishing	lavender concrete wall, downstream of bridge, overhanging trees, ~100 ft in length, rocky shore
LPR6U	east bank	boat electrofishing	overhanging trees and grasses, shallow water, mudflat area, upstream of Nutley Boat Ramp, head downstream
LPR6V	east bank	boat electrofishing	mudflat area, overhanging trees and grasses on the bank, shallow water, upstream of Nutley Boat Ramp, head downstream

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
Reach 7			
LPR7A	west bank	minnow trap	overhanging trees, riprap
LPR7B	east bank	minnow trap	riprap, overhanging vegetation at base of wood bulkhead/wall (residence), shallow mudflat with gravel
LPR7C	west bank	minnow trap	concrete wall, overhanging trees
LPR7D	east bank	minnow trap	shallow mudflat with riprap and overhanging trees
LPR7E	west bank	minnow trap	riprap, overhanging trees, gradually sloping rocky shoreline
LPR7F	east bank	crab trap	riprap, overhanging trees, wood bulkhead
LPR7G	west bank	crab trap	riprap, overhanging trees, gradually sloping rocky shoreline
LPR7H	west bank	crab trap	overhanging trees, riprap, steeply sloped wooded bank, very little shoreline
LPR7I	east bank	crayfish trap	wood bulkhead, riprap, overhanging trees
LPR7J	west bank	crayfish trap	wood bulkhead, overhanging trees
LPR7K	west bank	crayfish trap	overhanging trees, riprap, steeply sloped wooded bank, very little shoreline
LPR7L	east bank	gillnet	rusted remains of old dock; gravel, cobbles; wooden bulkhead and overhanging trees, deeper water
LPR7M	west bank	gillnet	steep, rocky with large woody debris, overhanging trees; deeper water
LPR7N	west bank	trotlines	wooden bulkhead; overhanging trees; deeper water
LPR7O	east bank	trotlines	concrete wall with overhanging trees and large rocks; deeper water; downstream of small tributary
LPR7P	west bank	trotlines	rocky with large woody debris and overhanging trees; deeper water downstream of bridge, along vegetated bank, riprap adjacent to sheet pile bulkhead
LPR7Q	west bank	trotlines	shaded with trees; rocks, large woody debris; deeper water
LPR7R	west bank	boat electrofishing	rocky, overhanging trees
LPR7S	east bank	boat electrofishing	riprap with overhanging trees, start at concrete wall, deeper water, head downstream
LPR7T	east bank	boat electrofishing	downstream of Rutherford dock and bridge; rocky shore under bridge and overhanging trees beyond the bridge
LPR7U	east bank	boat electrofishing	some rocks on shoreline, over hanging trees, head downstream of white fence (residential property); shallow water

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
Reach 8			
LPR8A	east bank	minnow trap	concrete wall, shallow mudflat with overhanging trees, purple loosestrife and vegetation along shoreline
LPR8D	west bank	minnow trap	shallow rock and gravel substrate, riprap, overhanging trees and vegetation along shoreline
LPR8E	east bank	minnow trap	east bank with silt, sand, gravel substrate, overhanging trees and vegetated shoreline; just north of gravel bar and backwater island
LPR8F	west bank	minnow trap	silt, gravel, cobble substrate, shallow side channel, overhanging trees and vegetated shoreline
LPR8G	west bank	crayfish trap	shallow rock and gravel substrate, riprap, overhanging trees and vegetation along shoreline
LPR8H	east bank	crayfish trap	concrete wall, shallow mudflat with overhanging trees, purple loosestrife and vegetation along shoreline
LPR8I	east bank	crayfish trap	east bank with silt, sand, gravel substrate, overhanging trees and vegetated shoreline; just north of gravel bar and backwater island
LPR8J	west bank	crab trap	shallow rock and gravel substrate, riprap, overhanging trees and vegetation along shoreline
LPR8K	east bank	crab trap	concrete wall, shallow mudflat with overhanging trees, purple loosestrife and vegetation along shoreline
LPR8L	east bank	crab trap	east bank with silt, sand, gravel substrate, overhanging trees and vegetated shoreline; just north of gravel bar and backwater island
LPR8M[a]	west bank	crab trap	west bank of main channel; mostly gravel, cobble with overhanging trees and vegetation along the bank
LPR8N	east bank	trotline	overhanging trees, large woody debris and riprap; upstream of two bridges and opposite side of small park
LPR8O	west bank	trotline	large overhanging trees, shopping carts, large woody debris, deep water; downstream of two bridges
LPR8P	west bank	trotline	overhanging trees, large woody debris
LPR8Q	east bank	trotline	overhanging trees and vegetation, deeper water; across from red-brick building, PPP Co.
LPR8R	east bank	gillnet	vegetated bank, deeper water, overhanging trees
LPR8S	west bank	gillnet	overhanging trees, metal bulkhead, deeper water, downstream of bridge
LPR8S	west bank	gillnet	metal bulkhead, downstream of bridge; deeper water (14 ft)
LPR8T	west bank	crayfish trap	west bank of main channel; mostly gravel, cobble with overhanging trees and vegetation along the bank
LPR8U	west bank	boat electrofishing	overhanging trees
LPR8V	east bank	boat electrofishing	across from Pulaski Park

Table 1. Description of sampling locations

Sampling Location ID	Location in Channel	Sampling Gear Types Used	Description
LPR8W	west bank	boat electrofishing	under silver bridge
LPR8X	east bank	boat electrofishing	under silver bridge
LPR8Y	east bank	backpack electrofishing	wooded shoreline, soft substrate on shore/intertidal area quickly transitions to rocky substrate
LPR8Z	east bank	backpack electrofishing	east bank of main channel just below Dundee Dam with mostly gravel, cobble with overhanging trees and vegetation along the bank

[a] Sample location moved to the main channel.

RM – river mile

APPENDIX D: FIELD SAMPLING AND SAMPLE PROCESSING PHOTOS

Photographs

Photo 1.	Backpack electrofishing below Dundee Dam	1
Photo 2.	Electrofishing from the pontoon boat	1
Photo 3.	Retrieving gillnet from the pontoon boat	2
Photo 4.	Checking minnow traps on the Jon boat	2
Photo 5.	Deploying minnow trap on the Jon boat	3
Photo 6.	Measuring blue crab in field facility	4
Photo 7.	Normal Atlantic menhaden	5
Photo 8.	Atlantic menhaden with soft internal organs that are beginning to decay and body cavity full of brown fluid	5
Photo 9.	Atlantic menhaden with hole above lateral line on left side	6
Photo 10.	Normal striped bass	6
Photo 11.	Parasites on the intestines of a striped bass	7
Photo 12.	Ceroid pigment centers on the spleen of a striped bass	7
Photo 13.	Striped bass with leech on left pectoral fin	8
Photo 14.	V-shaped parasite on right gill of striped bass	8
Photo 15.	Parasites in intestines of striped bass	9
Photo 16.	Striped bass with discolored liver	9
Photo 17.	White perch with body surface wounds	10
Photo 18.	Normal smallmouth bass	10
Photo 19.	Growths on internal organs of a smallmouth bass	11
Photo 20.	Parasites on liver of a smallmouth bass	11
Photo 21.	Smallmouth bass with gillnet damage to body surface	12
Photo 22.	Normal common carp	12
Photo 23.	Gillnet damage to body surface of common carp	13
Photo 24.	Normal white sucker	13
Photo 25.	Gillnet damage to body surface of white sucker	14
Photo 26.	Electrofishing burns to body surface of white sucker	14
Photo 27.	Normal bluegill	15
Photo 28.	Bluegill with white spots near heart	15
Photo 29.	Normal pumpkinseed	16
Photo 30.	White spots on liver of pumpkinseed	16
Photo 31.	Normal black crappie	17

Photo 32.	Parasites from inside the intestine of a black crappie	17
Photo 33.	Normal redbreast sunfish	18
Photo 34.	Parasites in gall bladder of redbreast sunfish	18
Photo 35.	Bluefish	19
Photo 36.	Spottail shiner	19
Photo 37.	American eel	20
Photo 38.	Atlantic silverside	20
Photo 39.	Atlantic tomcod	21
Photo 40.	Banded killifish	21
Photo 41.	Blue crab	22
Photo 42.	Brown bullhead	22
Photo 43.	Channel catfish	23
Photo 44.	Chinese mitten crab	23
Photo 45.	Crevalle jack	24
Photo 46.	Gizzard shad	24
Photo 47.	Goby species	25
Photo 48.	Hogchoker	25
Photo 49.	Mummichog	26
Photo 50.	Northern pike	26
Photo 51.	Northern pipefish	27
Photo 52.	Northern searobin	27
Photo 53.	Red-ear slider	28
Photo 54.	Rock bass	28
Photo 55.	Satinfin shiner	29
Photo 56.	Silver perch	29
Photo 57.	Snail	30
Photo 58.	Soft-shell turtle	30
Photo 59.	Spinycheek crayfish	31
Photo 60.	Striped mullet	31
Photo 61.	Tessellated darter	32
Photo 62.	Weakfish	32
Photo 63.	White catfish	33
Photo 64.	Winter flounder	33

Photo 1. Backpack electrofishing below Dundee Dam

Photo 2. Electrofishing from the pontoon boat

Photo 3. Retrieving gillnet from the pontoon boat

Photo 4. Checking minnow traps on the Jon boat

Photo 5. Deploying minnow trap on the Jon boat

Photo 6. Measuring blue crab in field facility

Photo 7. Normal Atlantic menhaden

Photo 8. Atlantic menhaden with soft internal organs that are beginning to decay and body cavity full of brown fluid

Photo 9. Atlantic menhaden with hole above lateral line on left side

Photo 10. Normal striped bass

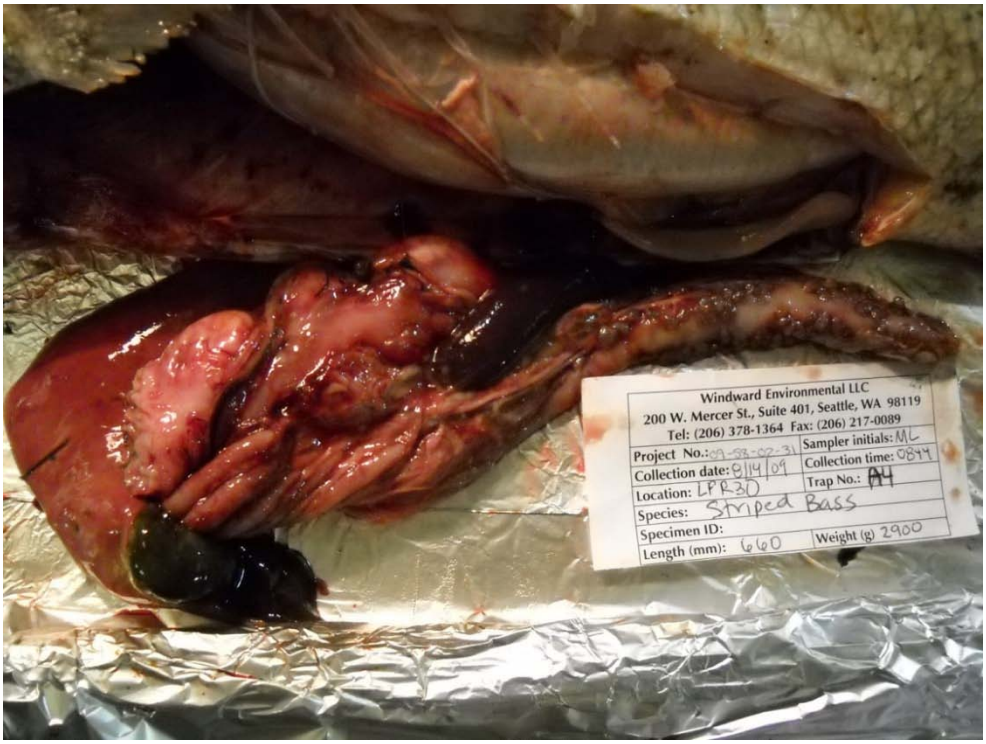


Photo 11. Parasites on the intestines of a striped bass

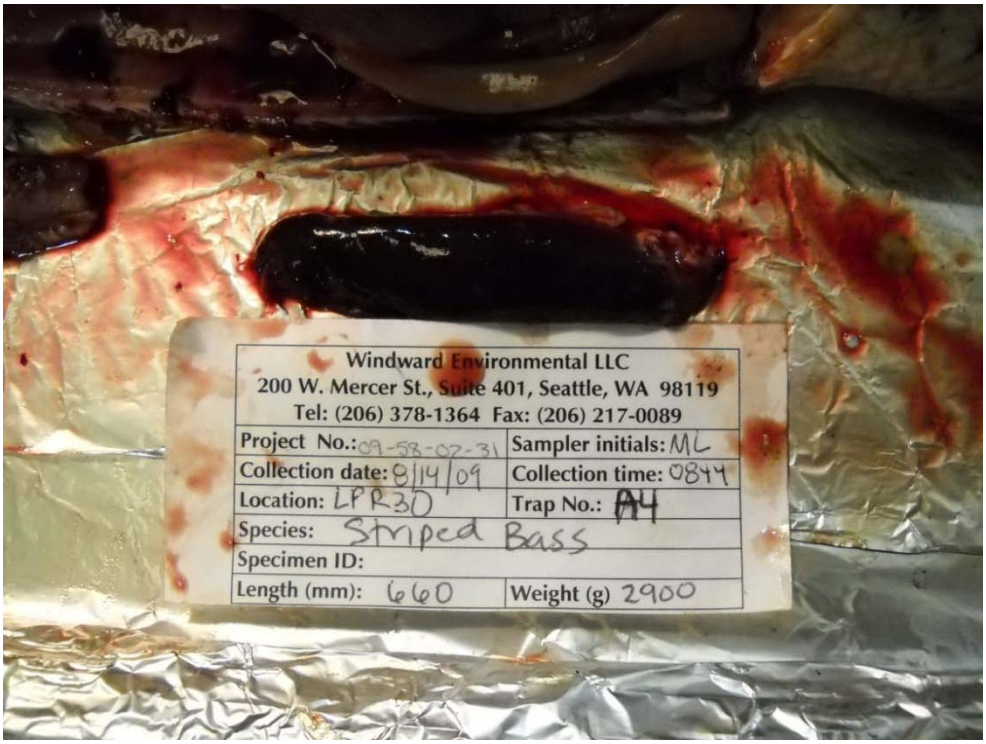


Photo 12. Ceroid pigment centers on the spleen of a striped bass

Photo 13. Striped bass with leech on left pectoral fin

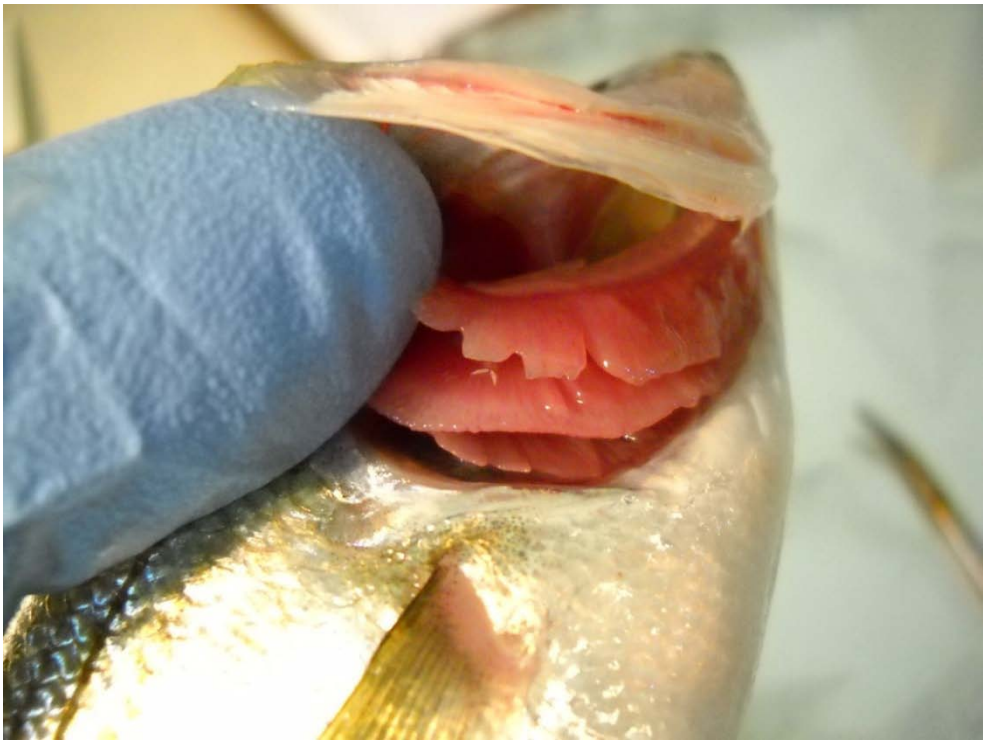


Photo 14. V-shaped parasite on right gill of striped bass

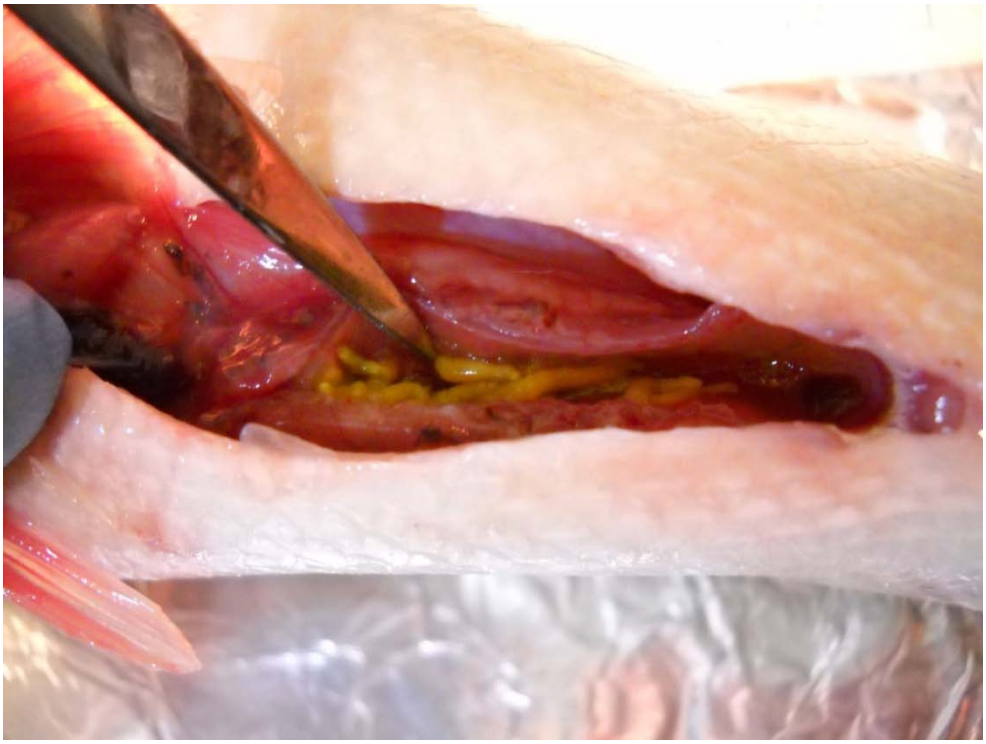


Photo 15. Parasites in intestines of striped bass

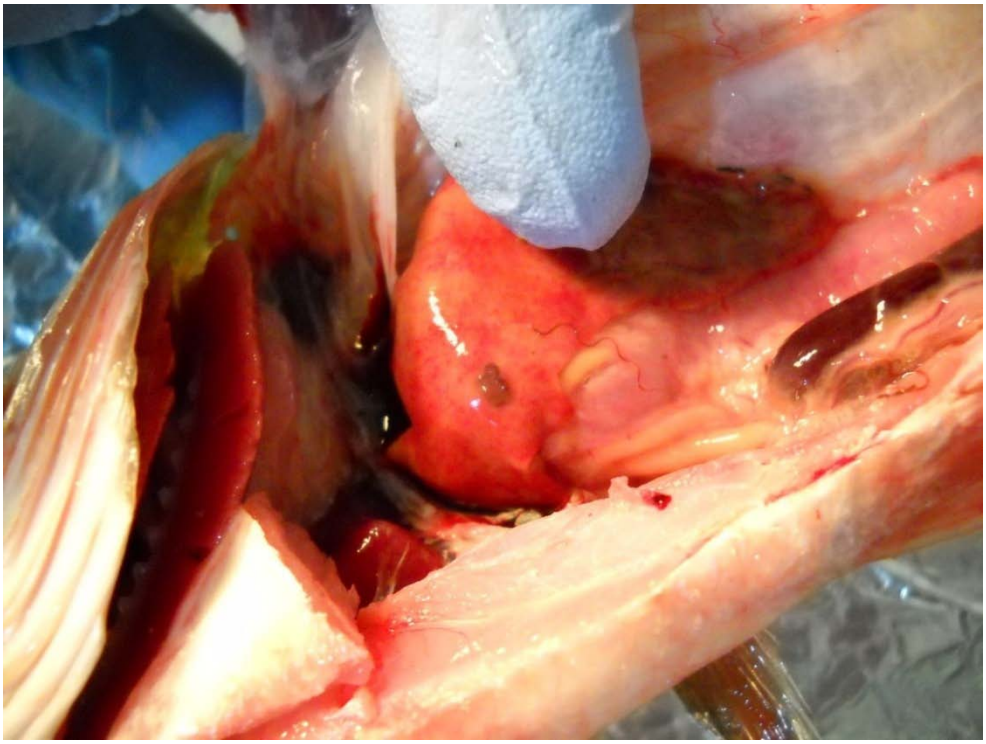


Photo 16. Striped bass with discolored liver

Photo 17. White perch with body surface wounds

Photo 18. Normal smallmouth bass

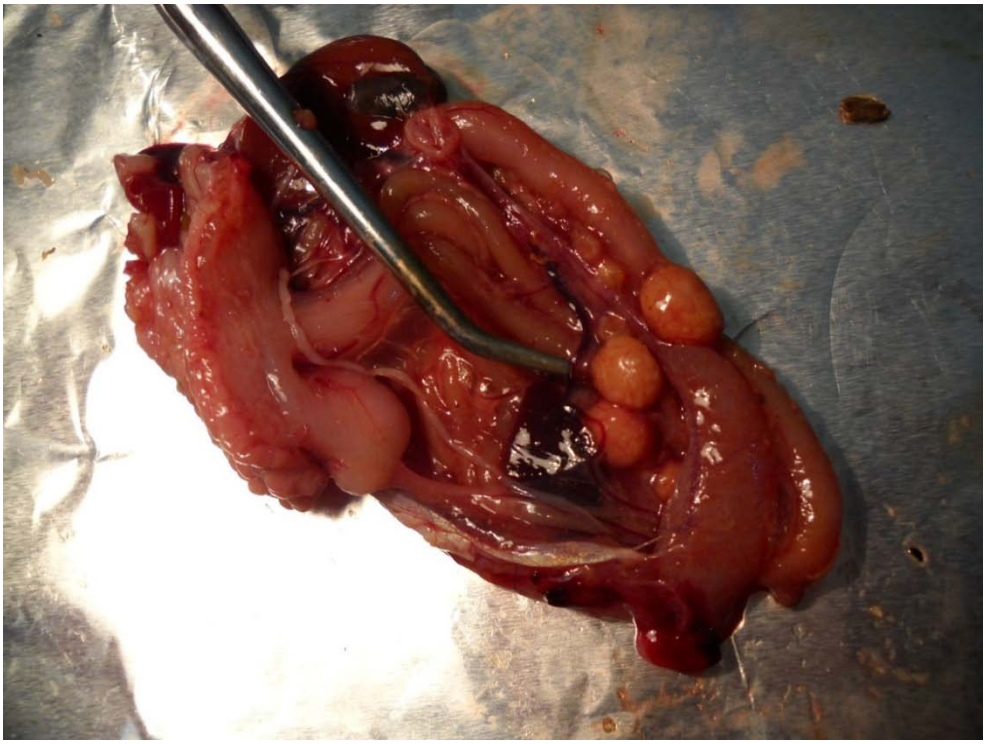


Photo 19. Growths on internal organs of a smallmouth bass

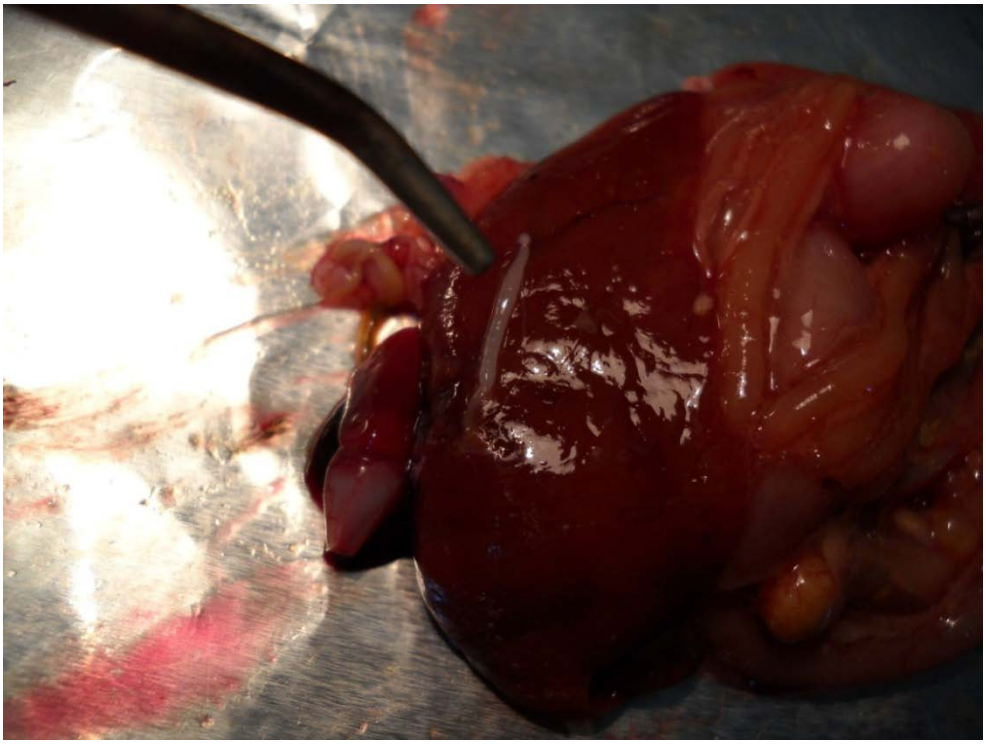


Photo 20. Parasites on liver of a smallmouth bass

Photo 21. Smallmouth bass with gillnet damage to body surface

Photo 22. Normal common carp

Photo 23. Gillnet damage to body surface of common carp

Photo 24. Normal white sucker

Photo 25. Gillnet damage to body surface of white sucker

Photo 26. Electrofishing burns to body surface of white sucker

Photo 27. Normal bluegill

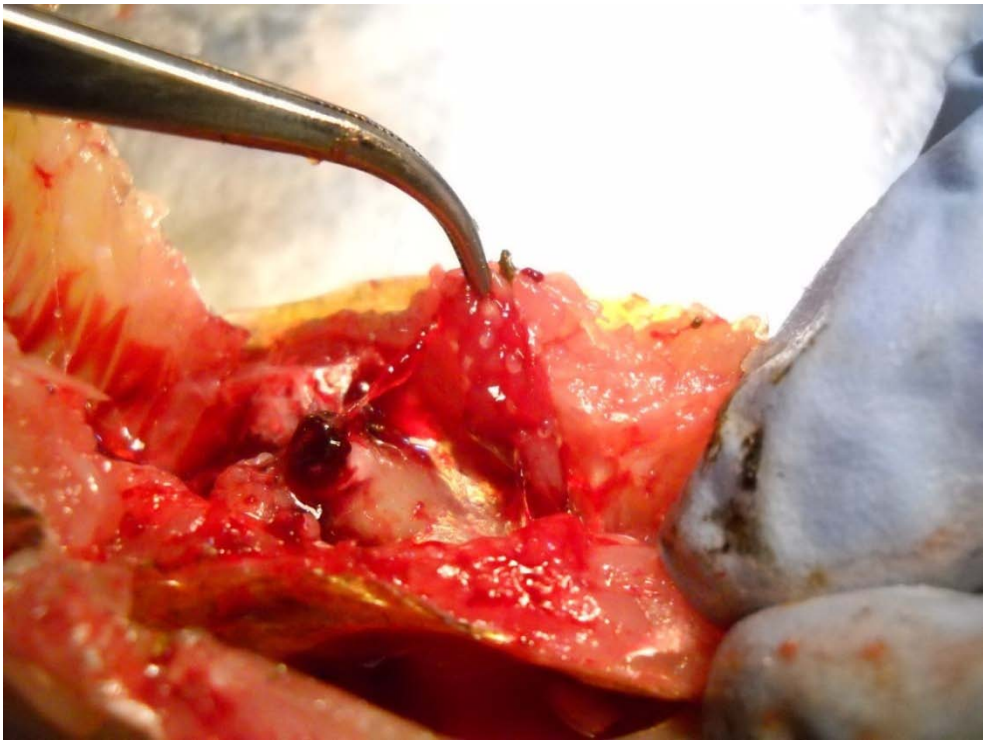


Photo 28. Bluegill with white spots near heart

Photo 29. Normal pumpkinseed

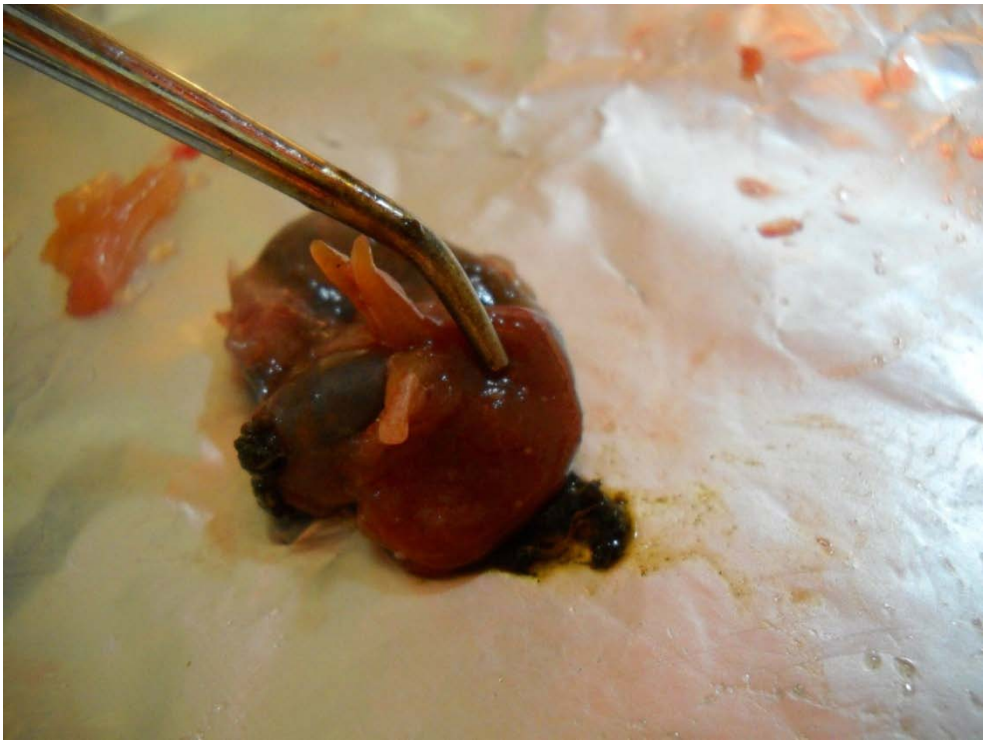


Photo 30. White spots on liver of pumpkinseed

Photo 31. Normal black crappie

Photo 32. Parasites from inside the intestine of a black crappie

Photo 33. Normal redbreast sunfish

Photo 34. Parasites in gall bladder of redbreast sunfish

Photo 35. Bluefish

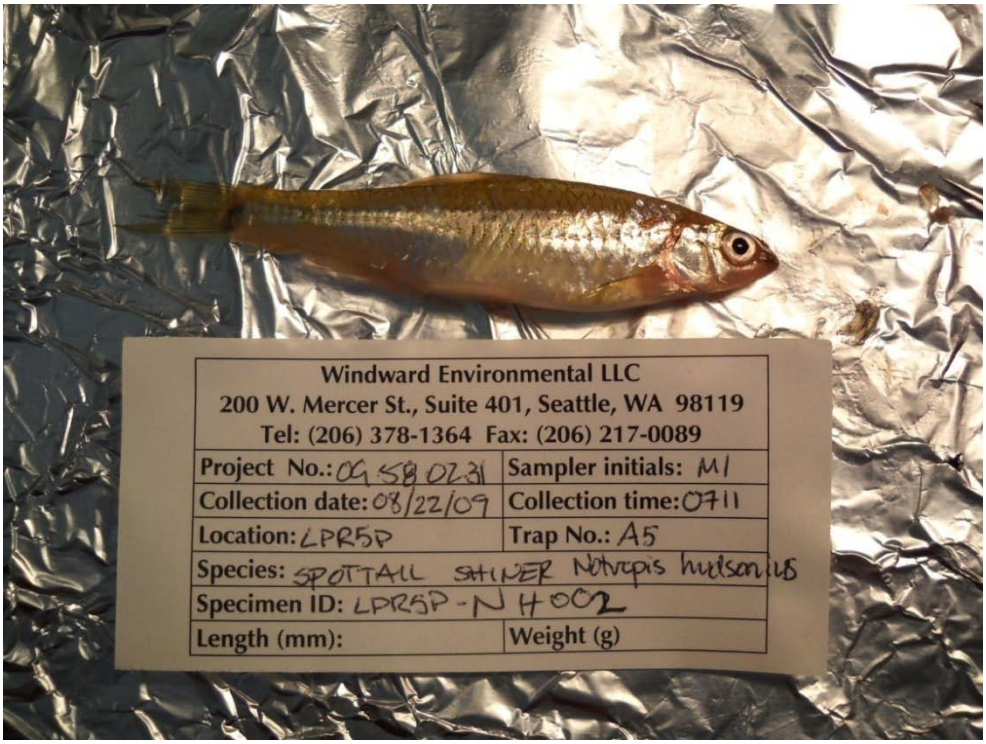


Photo 36. Spottail shiner

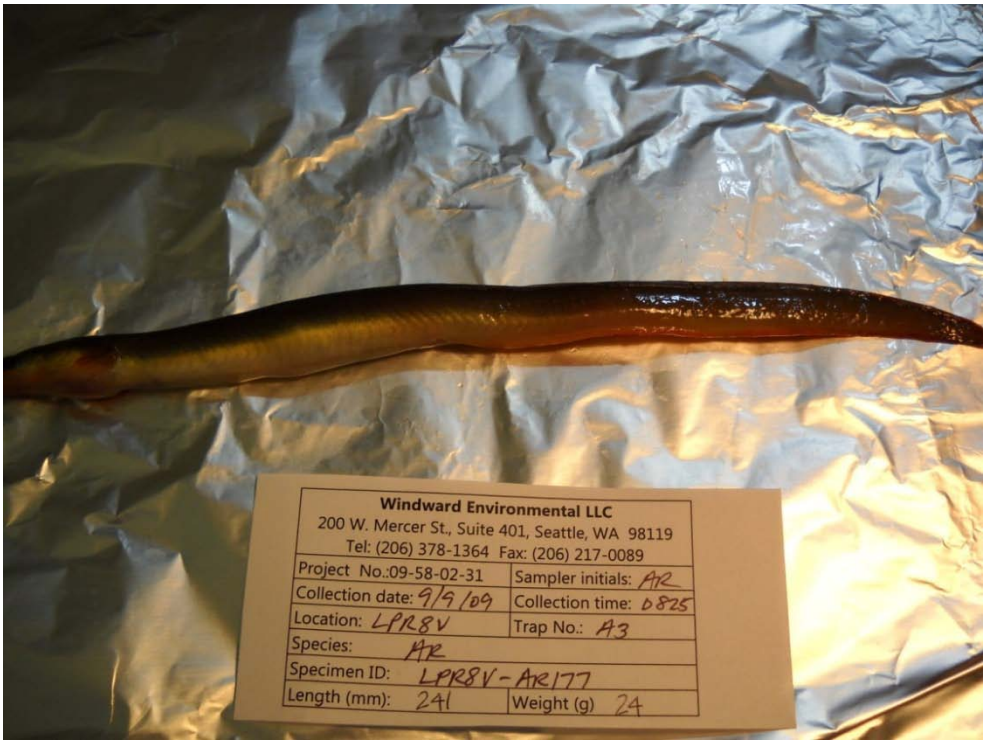


Photo 37. American eel

Photo 38. Atlantic silverside

Photo 39. Atlantic tomcod

Photo 40. Banded killifish

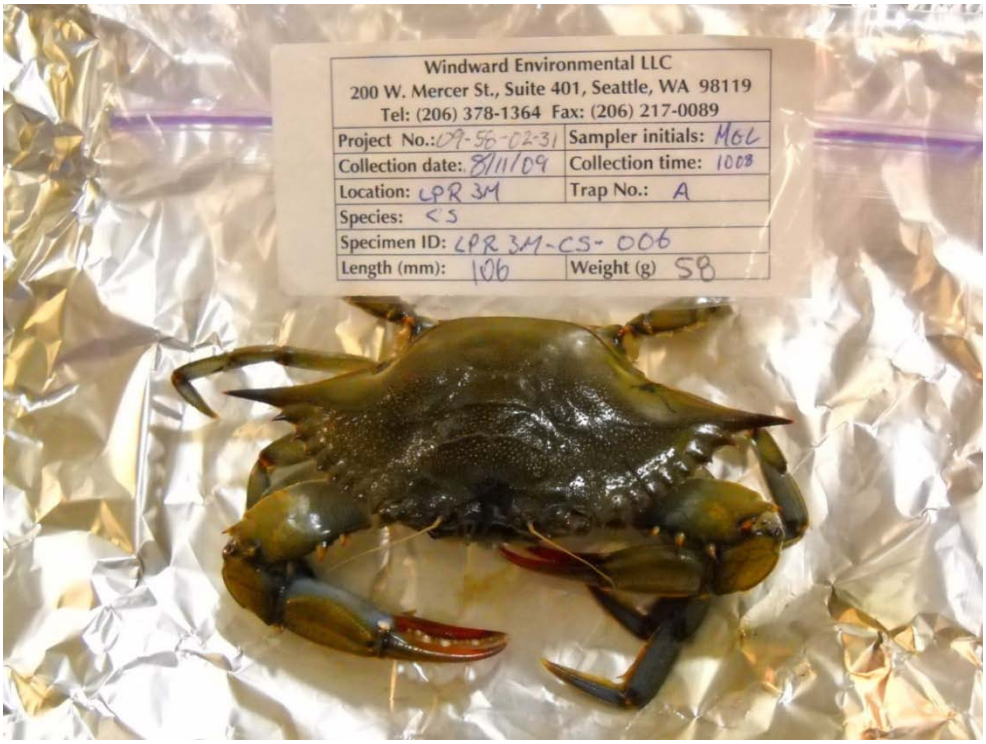


Photo 41. Blue crab

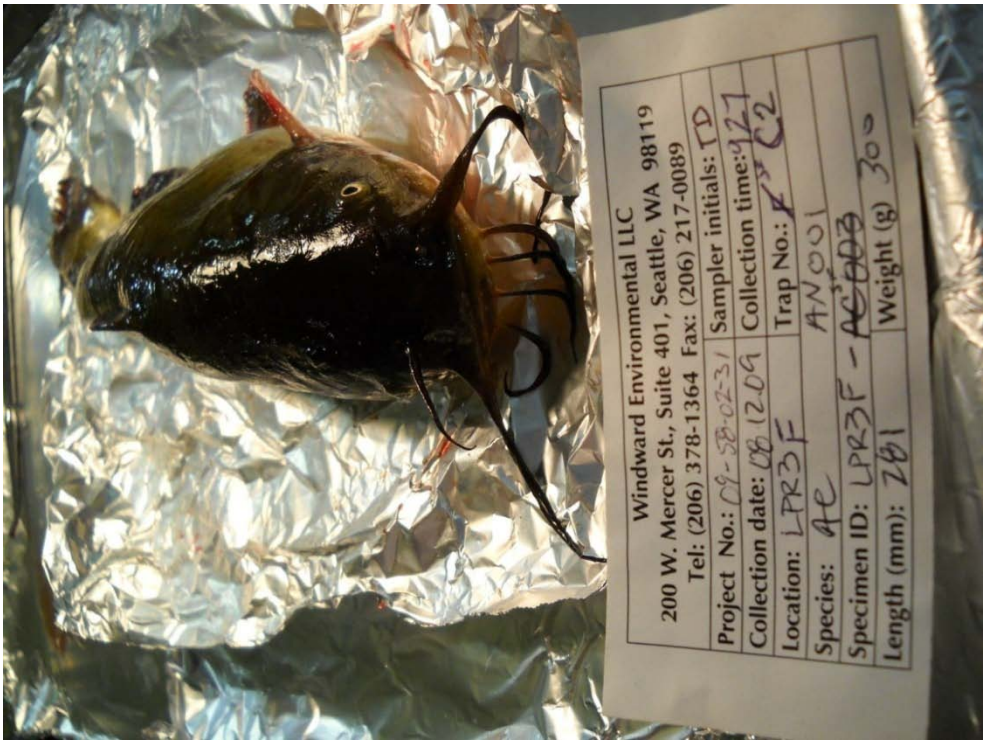


Photo 42. Brown bullhead

Photo 43. Channel catfish

Photo 44. Chinese mitten crab

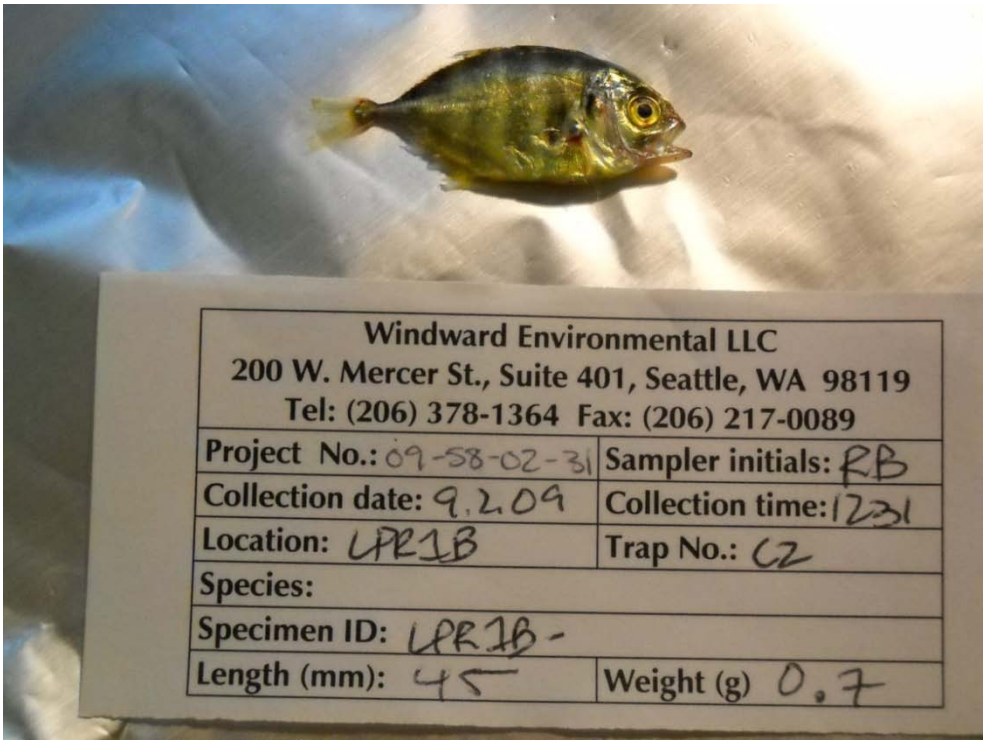


Photo 45. Crevalle jack

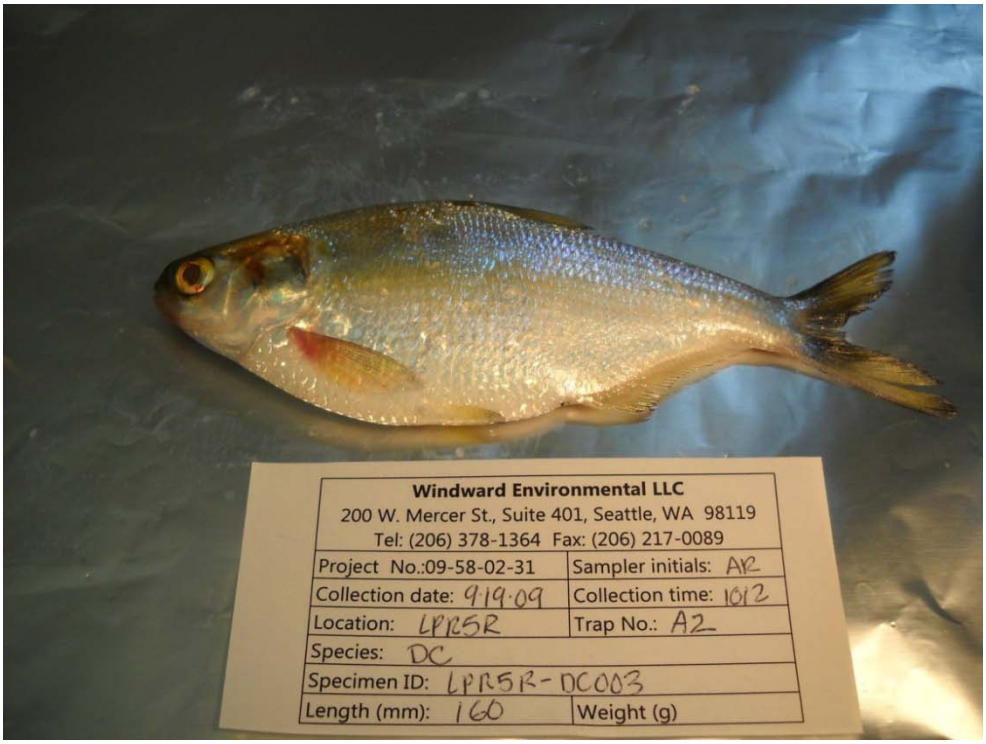


Photo 46. Gizzard shad

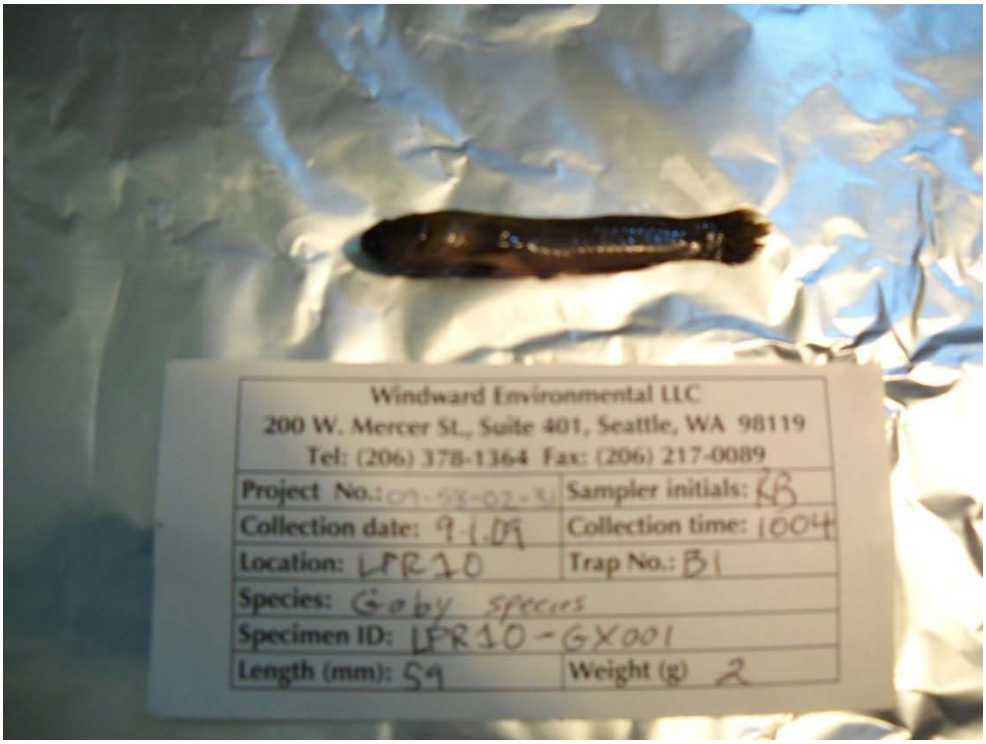


Photo 47. Goby species

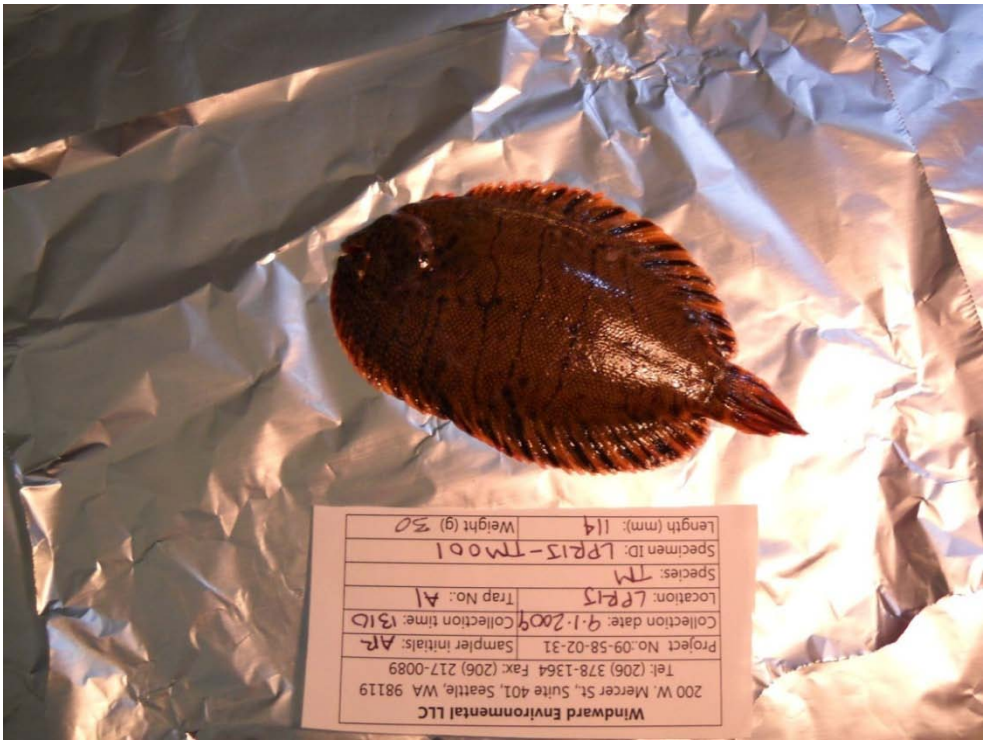


Photo 48. Hogchoker

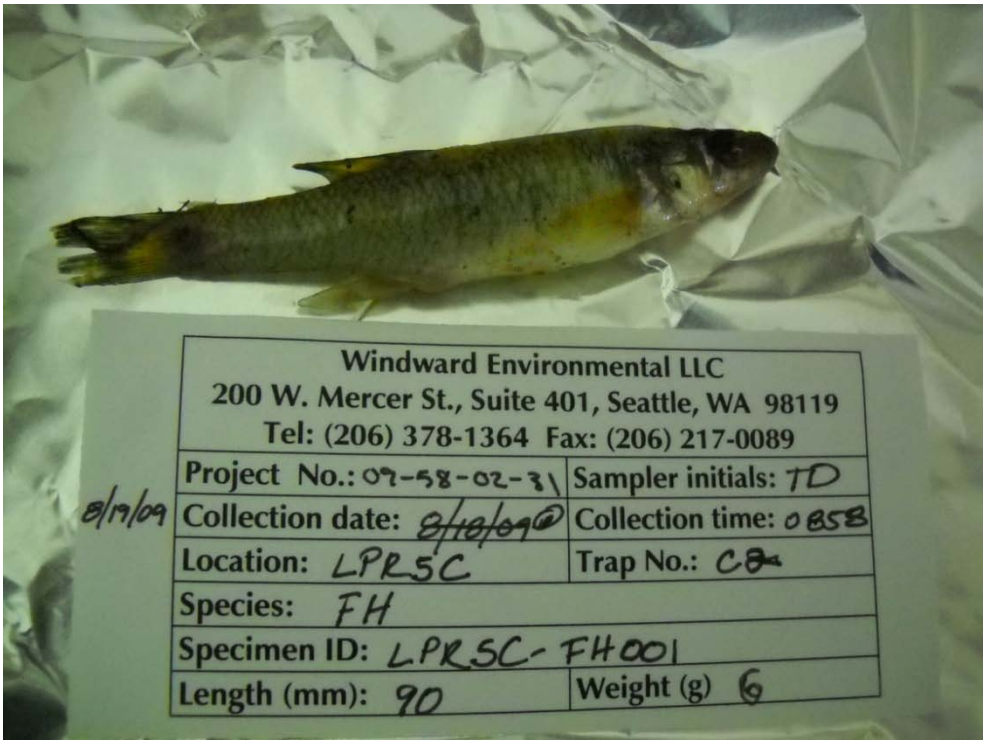


Photo 49. Mummichog

Photo 50. Northern pike

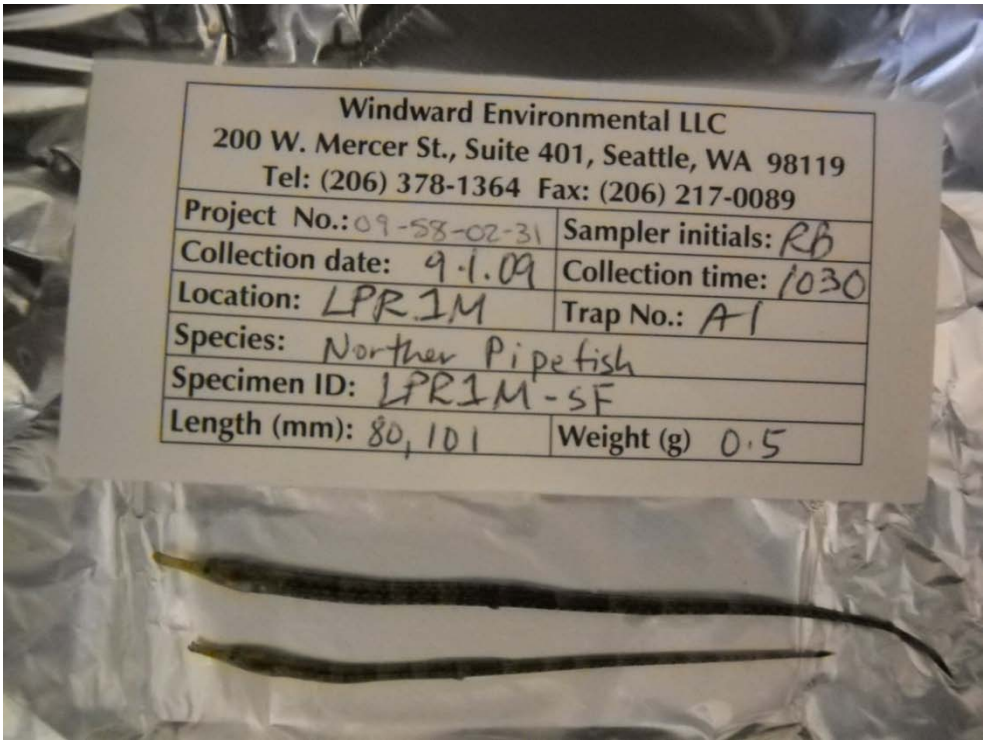


Photo 51. Northern pipefish

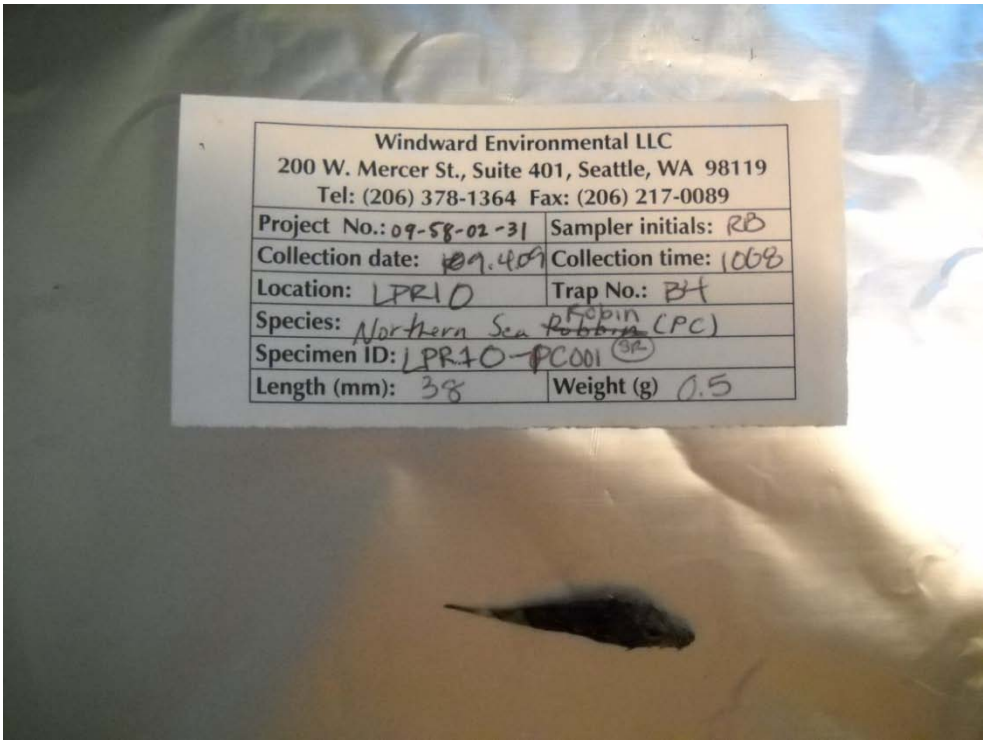


Photo 52. Northern searobin

Photo 53. Red-ear slider

Photo 54. Rock bass

Photo 55. Satinfin shiner

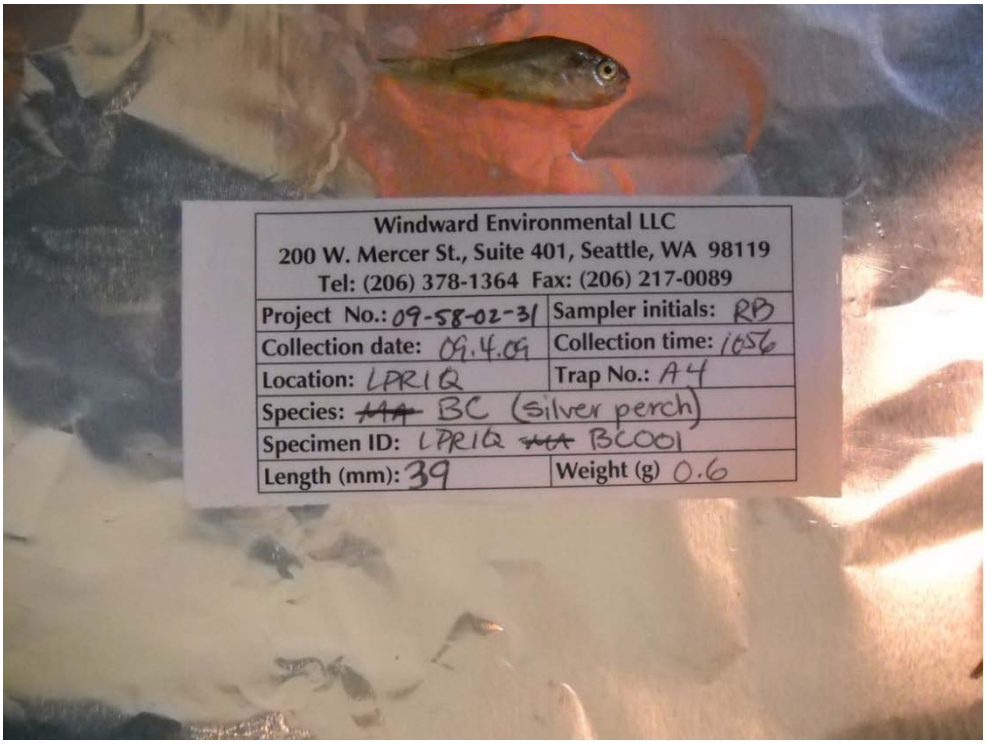


Photo 56. Silver perch

Photo 57. Snail

Photo 58. Soft-shell turtle

Photo 59. Spinycheek crayfish

Photo 60. Striped mullet

Photo 61. Tessellated darter

Photo 62. Weakfish

Photo 63. White catfish

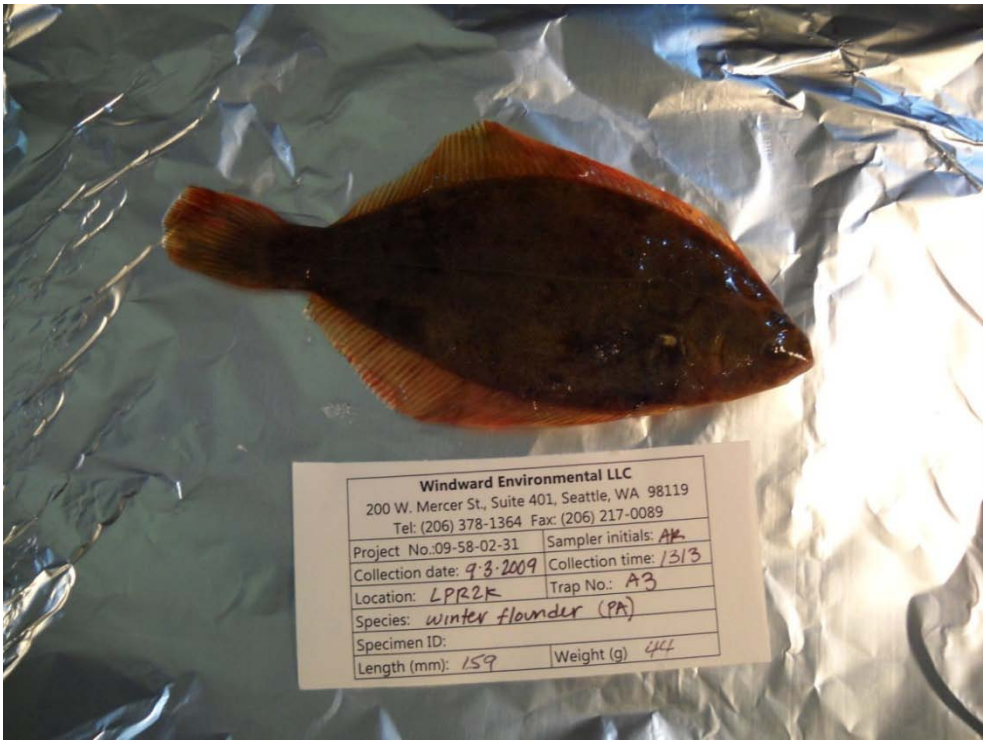


Photo 64. Winter flounder

APPENDIX E: PROTOCOL MODIFICATION FORMS

Protocol Modification Form: Fish/Decapod QAPP No. 2

Project Name and Number: LPRSA RI/FS (Tissue Collection) 09-58-02-31

Material to be Sampled: Fish and decapod crustacean tissue

Measurement Parameter: Sampling station LPR3C location

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Location LPR3C at mudflat area at 693327 N by 585609 W was targeted for collecting benthic omnivore (mummichog) tissue (Tissue QAPP Worksheet 18 and Attachment J; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

The proposed target location coordinates did not provide any suitable intertidal mudflat area for mummichog. It was located next to a steel bulkhead in a (deeper) subtidal area.

Variation from Field or Analytical Procedure:

Sampling station LPR3C was relocated to 694436 N by 585116 W, approximately 1100 feet upstream of the target coordinates to the nearest available mudflat area near the (south) west bank of the river.

Special Equipment, Materials or Personnel Required:

None.

Initiator's Name:		Date:	08/10/09
Project Manager:		Date:	08/10/09
QA Manager:		Date:	08/10/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 3

Project Name and Number: LPRSA RI/FS (Tissue Collection) 09-58-02-31

Material to be Sampled: Fish and decapod crustacean tissue

Measurement Parameter: Tissue for chemistry analysis, and fish community metrics

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Target (and alternate) fish and decapod crustaceans will be caught and retained for tissue chemistry (Tissue QAPP, Windward 2009). Community survey observations (length, weight, gender, etc.) will be complied for all fish caught (Tissue QAPP Worksheet 11 and Attachment J, Windward 2009)

Reason for Change in Field Procedure or Analysis Variation:

Fish were heavily preyed upon and/or damaged in gillnets, and were unsuitable for submitting for tissue chemistry analysis.

Variation from Field or Analytical Procedure:

Fish that were preyed upon and/or damaged in the gillnets were discarded and not submitted for tissue chemistry, and were not weighed or measured for the community survey (they were only counted).

Special Equipment, Materials or Personnel Required:

None.

Initiator's Name:		Date:	08/11/09
Project Manager:		Date:	08/11/09
QA Manager:		Date:	08/11/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 4

Project Name and Number: LPRSA RI/FS (Tissue Collection) 09-58-02-31

Material to be Sampled: Fish and decapod crustacean tissue

Measurement Parameter: Sampling station LPR2C location

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Location LPR2C at mudflat area near USEPA-requested location by Diamond Alkali at 695048 N by 593046 W was targeted for collecting benthic omnivore (mummichog) tissue (Tissue QAPP Worksheet 18 and Attachment J; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

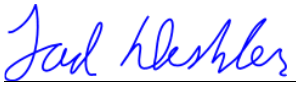
Tierra Solutions, Inc. was conducting a water column monitoring and sediment coring program on and near the mudflat location occupied by proposed target location LPR2C through the duration of the tissue sampling program. Windward was requested to relocate station LPR2C to prevent impacts to the water column monitoring and sediment coring programs.

Variation from Field or Analytical Procedure:

Sampling station LPR2C was relocated to 695228 N by 594612 W, approximately 1300 feet downstream of the target coordinates. The relocated station is in the same mudflat area as the originally proposed station.

Special Equipment, Materials or Personnel Required:

None.

Initiator's Name:		Date:	08/17/09
Project Manager:		Date:	08/17/09
QA Manager:		Date:	08/17/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 5

Project Name and Number: LPRSA RI/FS (Tissue Collection) 09-58-02-31

Material to be Sampled: Fish and decapod crustacean tissue

Measurement Parameter: Water temperature for electrofishing

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

No electrofishing will occur when water temperatures are above 18°C or are expected to increase above this temperature prior to conducting electrofishing activities (Tissue QAPP Attachment L; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

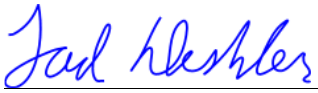
Although measured water temperatures have been between 20°C and 25°C (on August 25, 2009), the 18°C guideline developed by the National Marine Fisheries Service (NMFS) for the Endangered Species Act is for species (e.g., salmonids) adapted to cooler waters. Salmonids are not present in the Lower Passaic River (LPR).

Variation from Field or Analytical Procedure:

Electrofishing was attempted to determine if it could be an effective mean for collecting mummichog in mudflat areas, even when the water temperature was above 18°C because the NMFS guideline does not apply to the fish species found in the LPR.

Special Equipment, Materials or Personnel Required:

Electrofishing unit.

Initiator's Name:		Date:	08/26/09
Project Manager:		Date:	08/26/09
QA Manager:		Date:	08/26/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 6

Project Name and Number: LPRSA RI/FS (Tissue Collection) 09-58-02-31

Material to be Sampled: Fish and decapod crustacean tissue

Measurement Parameter: Additional method for collecting mummichog

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Fish tissue surveys will be conducting using gillnets, eel/minnow/crab/crayfish traps, trotlines and electrofishing gear (Tissue QAPP Worksheet 17; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

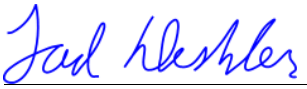
Only one mummichog has been collected to date.

Variation from Field or Analytical Procedure:

Dip netting directly from a boat by hand was added as an additional gear type/collection method to target mummichog in the mudflat areas. At each location where multiple passes were attempted with the dip net; after several unsuccessful dip netting attempts, dip netting was discontinued. Seining was also added as another potential gear type/collection method to target mummichog in the mudflat areas.

Special Equipment, Materials or Personnel Required:

Dip net and seining net.

Initiator's Name:		Date:	12/11/09
Project Manager:		Date:	12/11/09
QA Manager:		Date:	12/11/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 12

Project Name and Number: Passaic RI 09.58.02.31

Material to be Sampled: Tissue

Measurement Parameter: Supplemental deployment of gear in Reaches 1, 4, 5 and 6

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Each fishing method will be attempted up to five times at each target sampling location (where that method is appropriate) within each 2-mile reach (Tissue QAPP Worksheet 11; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

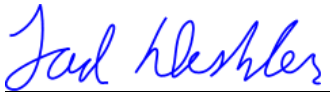
Per agreement between USEPA and CPG during a call on September 11, 2009, additional attempts were conducted at specific locations within Reaches 1, 4, 5 and 6 to supplement the catch from the first five attempts.

Variation from Field or Analytical Procedure:

Up to five additional attempts were made at selected stations in Reaches 1, 4, 5 and 6 during the week of September 14, 2009.

Special Equipment, Materials or Personnel Required:

Gill nets, trotlines, crab traps, and boat electrofishing unit.

Initiator's Name:		Date:	09/20/09
Project Manager:		Date:	09/20/09
QA Manager:		Date:	09/20/09
USEPA Authority:		Date:	

Protocol Modification Form: Fish/Decapod QAPP No. 13

Project Name and Number: Passaic RI 09.58.02.31

Material to be Sampled: Tissue

Measurement Parameter: Soak time for minnow traps.

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Traps will be deployed in the late afternoon to early evening hours and retrieved the following morning (Tissue QAPP Worksheet 17; Windward 2009).

Reason for Change in Field Procedure or Analysis Variation:

To date, overnight soaks have caught relatively few mummichog. During a conference call (to discuss the Benthic QAPP) on August 31, 2009, USEPA suggested that any captured mummichog may be escaping the traps before retrieval the following day, and that a shortened soak period may increase the likelihood of capturing mummichog.

Variation from Field or Analytical Procedure:

Minnow traps were deployed and retrieved after an approximate two to three-hour soak period on September 2, 2009 to determine if the shorter soak time would yield more mummichog.

Special Equipment, Materials or Personnel Required:

Minnow traps.

Initiator's Name:		Date:	09/03/09
Project Manager:		Date:	09/03/09
QA Manager:		Date:	09/03/09
USEPA Authority:		Date:	

APPENDIX F: SOP—FISH SURVEYS, COLLECTION, AND TISSUE SAMPLING (REVISION 2 DATED SEPTEMBER 14, 2010)

I. Introduction

This procedure, based on Standard Operating Procedure (SOP) 29 of FSP2 (Malcolm Pirnie et al. 2006), defines the procedures to be followed when conducting fish surveys and collecting fish tissue samples, where appropriate, from the Lower Passaic River Study Area (LPRSA). The fish surveys and collections will be performed, as practicable, using baited eel and minnow traps and trotlines, gillnets, and electrofishing. Although the details of sample collection will be influenced by site-specific conditions, certain aspects of sample collection can be standardized for fish sampling and collection. These procedures give descriptions of equipment, field procedures, and the documentation necessary to conduct fish population surveys and tissue sampling. Other SOPs may be used with this SOP and are addressed in the project-specific quality assurance project plan (QAPP) (Windward 2009). All data, including information on individual fish collected for analysis, as well as fishing coordinates, depths, and times will be included in an electronic database, which will be provided to USEPA.

II. Preparations for Sampling

The QAPP identifies sampling stations, frequency of sampling, sample type, and analytical procedures. The field team is responsible for reviewing the QAPP prior to conducting field activities and ensuring that all field equipment, including sample containers and preservatives, are available and in acceptable condition.

III. Equipment and Supplies

Equipment to be used during fish surveys and the collection of fish tissue samples may include, but is not limited to the following:

- Sampling vessel
- Eel traps and bait
- Minnow traps and bait
- Trotlines, hooks, and bait
- Gillnet
- Dip net
- Cast net
- Seine net
- Weights and buoys (or floats)
- Ceramic knives
- Fish measuring board
- Electronic scale
- Specimen Data Form
- Field guides and taxonomic keys
- Plastic buckets and/or steel washtubs
- Sample containers
- Bubble wrap

- Ice (wet and dry)
- Insulated coolers
- Sample identification labels/tags
- Waterproof marking pens
- Ziplock bags
- Personal protective equipment (PPE) as required (e.g., disposable gloves, safety glasses)
- Tissue processing equipment
- Dissecting scope
- Camera

IV. Equipment Decontamination Procedures

Decontamination of fish tissue sampling equipment will be performed between samples collected from each location/event in accordance with procedures outlined in the Decontamination of Biological Sampling Equipment SOP (Attachment I). Personnel decontamination procedures are described separately in the health and safety plan (Attachment R).

V. Location of Sampling Stations

The position and depth of the sampling station will be established. The positioning procedures are described in Attachments G and H: Locating Sample Points Using a Hand-Held Global Positioning System (GPS) and Locating Sample Points Using a Boat-Mounted Global Positioning System (GPS), respectively. The depth of the sampling station will be determined using either a fathometer or weighted demarcated line.

VI. Fish Surveys

The following protocol shall be implemented, as practicable, for conducting fish surveys and collecting fish tissue samples from the LPRSA at the appropriate sampling stations as described the QAPP.

A. Baited eel and minnow traps

Bait used in traps will not be analyzed for contaminant concentrations. To prevent ingested bait from impacting the anticipated tissue-residue analyses, traps will use bait contained in bait bags or perforated containers to prevent the consumption of bait. Baited traps will be deployed at three locations at each of the sampling stations during the late spring/early summer 2010 sampling. Baited traps may be deployed in conjunction with the gillnet sets. The primary goal of using these traps is to catch adult American eel, mummichogs, and darters for the tissue-residue analysis; but as a secondary goal, the traps are also likely to catch other small forage fish. Not all fish collected in these traps will be kept for tissue analysis; however, all fish collected will be counted and identified for the fish community survey.

For non-target fish that will not be retained for chemical analysis, a subsample of 10 to 15 fish may be used to generate weight and length (total) data for each species size class as part of the fish community data collection. Length, weight, and, if

practicable, gender will be recorded for all individual fish retained for tissue analysis. When gender cannot be identified, gender will be recorded as “indeterminate.” Each trap is made of reinforced aluminum mesh (1/4 in.) and can be buoyed with a small flotation device. Baited minnow traps for collecting mummichogs and darters will be preferentially set during the day on incoming tides to the extent possible based on the schedule of sampling activities. If sampling activities do not allow for the deployment of baited minnow traps during the day, traps will be deployed in the late afternoon to early evening hours and retrieved the following morning in the same manner as the eel traps and gillnets.

1. Place the bait into the mesh bag or on the hook attached to the center bow of the trap. Attach a float or buoy to the end of the minnow trap line.
2. Lower the trap into the water from the side of the boat, making sure that the trap is securely anchored and oriented on the river bottom. A buoy should be clearly visible on the water surface so that the minnow trap can be easily retrieved.
3. Note the time and location of deployment and retrieval and any pertinent sampling location and condition descriptions in the field logbook.
4. Retrieve traps.
5. Empty each trap into an individual clean holding container (e.g., insulated cooler) by slowly pulling the two ends of the trap apart.
6. All trapped fish will be identified, counted, weighed, measured (total length), examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages and recorded on the Specimen Data Form, which is included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

B. Trotlines

Trotlines may be used to collect a variety of fish species and sizes. Each trotline will consist of a main line with baited size 4 to 6 worm hooks. Trotlines will be deployed from a boat and generally set perpendicular to the shore. To comply with federal boating regulations for navigable waterways, buoys will not be set in navigation channels. If practicable, a minimum of one trotline will be set per sampling zone. An anchor and float line will be attached to each end of the main line, and the trotline will be set overnight. Field observations will be made on the presence of bait material in the gullet of the collected fish to be retained for analysis, when possible.

1. After baiting the hooks, place the trotlines into the water from the side of the boat, making sure that the line is taut from beginning to end. An attached buoy should be clearly visible on the water surface so that the trotlines can be easily retrieved.
2. Set trotlines perpendicular to the shore.
3. Note the time and location of deployment and retrieval and any pertinent sampling location and condition descriptions in field logbook.
4. Retrieve trotlines.
5. Unhook any fish caught on the trotlines into a clean holding container.
6. Fish removed from the trotlines will be identified, counted, weighed, measured (total length), examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages, and recorded on the Specimen Data Form, which was included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

7. Hooks will be left in during field collection but noted for the laboratory where samples will be prepared.

C. Gillnets

Multiple gillnets approximately 150 ft long and made up of six 6 x 24-ft panels with mesh sizes of 1.0 in., 1.5 in., 2.5 in., 3.0 in., 3.5 in., and 4.0 in. will be used. Each net consists of six different mesh types in order to capture various sizes of fish. Each net is equipped with lead weights and floats designed to hold the net vertically in the water column (i.e., after deployment, the bottom of the net will be suspended at least 1 ft above the bottom to avoid contact with bottom debris). The nets will be anchored with appropriate weights, and buoy lines will be rigged within 1 to 2 ft of taut with respect to the next predicted high tide following deployment. To comply with federal boating regulations for navigable waterways, buoys will not be set in navigation channels of the river. This requirement may influence the actual location of the gillnet deployments. These deployment techniques will ensure reasonable positioning of the net in the water column throughout the tidal cycle. If necessary, alternate sized gillnets may also be used under this sampling plan.

Gillnets will be deployed perpendicular to shore during the late afternoon or early evening hours and retrieved the following morning, as practicable. Generally, fish activity increases during the night, and the catch retrieved the following day will be more representative of species movement within the area. Fish caught in the gillnets may be used in the fish community survey and tissue sample collection. The following protocols will be followed, as practical, for collecting fish with gillnets.

1. Position the vessel at the site at which the gillnets are to be set.
2. Attach floats and anchor weights to surface float lines and bottom lead lines of gillnets.
3. Examine the bow of the vessel. Identify and cover with duct tape any cleats, exposed screws, and irregularities in deck rail where the net might become entangled during deployment.
4. Deploy gillnets perpendicular to shore/current from bow of vessel while vessel is in reverse. Note the time and location of deployment in field logbook.
5. Retrieve gillnets after the desired interval. Approach the net from the downwind end and slowly pull the net onto the boat.
6. Stack the gillnet into a cooler or wash tub in coils or figure eights, carefully removing fish as the net is pulled out of the water.
7. Place fish removed from the gillnets into a clean, labeled holding container (e.g., insulated cooler).
8. Fish removed from the gillnets will be identified, counted, weighed, measured (total length), examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages, and recorded on the Specimen Data Form, which was included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

D. Dip nets

Long-handled dip nets come in various mesh sizes. The selected dip net should have a mesh size that is appropriate for the target species.

Fish caught in the dip net may be used in the fish community survey and for tissue sample collection. The following protocols will be followed, as practical, for collecting fish with dip nets.

1. Position the vessel parallel to the shore at the site where the dip nets are to be used.
2. Hold the dip net below the water's surface (against the side of the vessel for stability, if necessary) as the vessel slowly moves forward, remaining parallel to the shore. Note the time and location in the field logbook.
3. Pull up the dip net after the desired interval (e.g., distance or time) has passed.
4. Carefully remove any fish caught in the dip net, and place fish into a clean, labeled holding container (e.g., insulated cooler).
5. Fish removed from the dip net will be identified; counted; weighed; measured (total length); examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages; and recorded on the Specimen Data Form, which was included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

E. Cast nets

Cast nets come in various mesh sizes. The selected cast net should have a mesh size that is appropriate for the target species.

Fish caught in the cast net may be used in the fish community survey and for tissue sample collection. The following protocols will be followed, as practical, for collecting fish with cast nets.

1. Position the vessel at the site where the cast nets are to be used.
2. Make sure the net is clean and free of tangles and debris.
3. Cast the net in the direction of the targeted location by releasing the net from both hands simultaneously. Note the time and location in the field logbook.
4. Once the net sinks to the bottom, slowly pull the drawstring in to close the net and trap the fish.
5. Carefully retrieve the net, and remove any fish caught in the cast net and place them into a clean, labeled holding container (e.g., insulated cooler).
6. Fish removed from the cast net will be identified; counted; weighed; measured (total length); examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages; and recorded on the Specimen Data Form, which was included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

F. Seine net

Seine nets come in various mesh sizes and lengths. The selected seine net should have a mesh size that is appropriate for the target species and length that is appropriate for the area to be sampled. The seine net should be equipped with lead weights (at the bottom of the net) and floats (at the top of the net) designed to hold the net vertically upright in the water column.

Fish caught in the seine may be used in the fish community survey and for tissue sample collection. The following protocols will be followed, as practical, for collecting fish with seine net.

1. When seining by boat, position two vessels at the site where the seine is to be used, either parallel or perpendicular to the shoreline. When seining by hand, two people will be positioned at either end of the seine to the extent from the shoreline that is possible given the water depth at the time of sampling. The two people deploying the seine net will stand so that the net is perpendicular to the shoreline. People hand-deploying the seine net will be equipped with appropriate PPE, including personal floatation devices (PFDs), waders, boots, and gloves.
2. Make sure the seine net is clean and free of tangles and debris prior to beginning seining.
3. Begin seining (either by boat or by hand deploying) so that the net is perpendicular or parallel to the shore of the targeted location. When deploying by boat, deploy from the bow of each vessel. Note the time and location of deployment in field logbook.
4. Drag the seine net over the desired interval in a single direction. When seining by hand, take caution when walking through the water while holding the net. In order to retrieve the seine net by hand, swing the net inward towards the shore so that both ends of the net are on the shore.
6. To retrieve seine net, pull the seine net from the lead-weighted bottom first, as not to lose fish underneath the net. Pool any fish caught into the center of the net.
7. Place fish removed from the seine net into a clean, labeled holding container (e.g., insulated cooler).
8. Fish removed from the seine net will be identified; counted; weighed; measured (total length); examined for gross pathological conditions, including any abnormalities, disease conditions, or missing appendages; and recorded on the Specimen Data Form, which was included as Attachment C in the Fish/Decapod QAPP (Windward 2009).

VII. Fish Handling and Preservation

Fish collected only for identification or population surveys should be identified in the field and released. Fish that are damaged or compromised will not be retained for tissue analysis but may be included in the fish community survey, if feasible. Any observed fish mortalities will be recorded. Fish collected for tissue analysis will be assessed for external abnormalities, weighed, and measured before being wrapped in aluminum foil and double bagged in clean polyethylene ziplock bags.

Sample bags will be labeled with the sample ID (described in the QAPP), sample date and time, and crew initials. They will then be placed on wet ice on the boat, transferred to the field laboratory for further processing and preparation if necessary before storage in a standard freezer at the staging area until shipment to the analytical laboratory. The field laboratory will be staffed by field personnel during the sampling effort.

A. Collection of Fish Eggs

Efforts will be made to limit egg collection to mature ripe eggs by focusing on large females with obvious gonad enlargement. One of two methods of dry spawning (stripping) will be used for egg removal. The following procedures will be followed when stripping eggs from fish.

General Process:

1. Wear appropriate PPE required by the health and safety plan (HSP) (Attachment R). Outer gloves should be changed between each sample.
2. Place appropriately labeled pre-cleaned egg sample container on a clean, stable working surface.
3. Remove container lid and place closure side up on clean, stable work surface.
4. Place appropriately labeled whole fish sample container on clean stable work surface.
5. If possible shield working area from direct sunlight, wind, and dust.
6. Obtain individual fish, identify to species level, measure and record length and weight.
7. Rinse fish clean of sediment and organic material with distilled de-ionized water. Containerize rinsate and follow disposal procedures specified in Attachment K: Management and Disposal of Investigation-Derived Waste.

Large Fish:

1. Large females are always handled by the head and tail, rather than by the tail only, to better control the live animal.
2. Position the vent over the open egg sample container and using a closed finger rocking motion from the tips of the fingers to the back of the hand stripping the eggs from the fish. This technique is thought to be less harmful to the fish, reduces scale loss and mucus production. Personnel with small hands may have difficulty using this technique.
3. Dispatch the fish with a clean knife or scalpel by severing the spinal cord just posterior to the brain.
4. Place the egg tissue in sample container and transfer to wet ice.
5. Repeat the procedure with additional gravid female fish until sufficient egg mass/volume is obtained to meet project requirements.
6. Record the time and date on labels, close containers, and freeze samples for transport to laboratory for further processing.

Small Fish:

1. Small fish are held firmly with one hand with the head and upper 1/3 of the fish entirely enclosed by the hand.
2. Position the vent over the open egg sample container. Using the free hand, gently press out the eggs with the thumb and forefingers, applying pressure just forward of the genital pore (near vent).
3. Dispatch the fish with a clean knife or scalpel by severing the spinal cord just posterior to the brain.

4a. For darter/killifish, place the egg tissue in a sample container and transfer to wet ice.

4b. For mummichog specimens, count the eggs using a dissecting scope and/or weigh the egg mass with an electronic scale. If eggs are too numerous (e.g., hundreds of eggs) or not in a condition in which an accurate number of eggs can be estimated, a subset of eggs will be counted and weighed and recorded. The weight of the total egg mass will also be recorded, and the total number of eggs may be extrapolated based on the weight of the subset of eggs versus the weight of the total egg mass. Record these measurements for each individual mummichog specimen from which eggs are harvested.

5. Repeat the procedure with additional gravid female fish until sufficient egg mass/volume is obtained to meet project requirements.

6. Record the time and date on labels, close containers, and freeze samples for transport to laboratory for further processing.

B. Stomach Content Removal

After length and weight measurements have been recorded in the field laboratory notebook, the internal organs will be removed.

1. Wear appropriate PPE as required by the HSP. Outer gloves should be changed between each sample.
2. Rinse fish clean of sediment and organic material with distilled de-ionized water. Containerize rinsate and follow disposal procedures specified in Attachment K: Management and Disposal of Investigation-Derived Waste.
3. Carefully cut the fish open from the esophagus to the anus. Remove the internal organs and place them in a small clean aluminum pan.
4. The stomach will be carefully separated from the other organs in the aluminum pan and placed in an individual small clean aluminum pan. The fullness of the stomach will be recorded in the field laboratory notebook.
5. The stomach will then be cut open carefully, and a brief description of the contents will be recorded in the field laboratory notebook. The stomach contents will be scraped out, weighed (if possible), and placed in a tared glass jar. Stomach contents of different species will be separately jarred and evaluated. The weight of the stomach contents (if measured) will be recorded in the field laboratory notebook.
6. The jar will be reweighed when all fish have been processed. The tare weight and the final weight of the jar will be recorded in the laboratory notebook.
7. The stomach contents sample will be preserved in 10% buffered formalin until shipped to the laboratory for identification to the lowest taxonomic level possible.

VIII. Laboratory Sample Processing

Fish and invertebrate samples are processed in the laboratory according to laboratory-specific methods based on the laboratory equipment, the analysis requirements, and specific guidance provided in the QAPP and Attachment O, Laboratory Processing of Fish and Decapod Tissue Composites and Homogenization (Windward 2009). In general, operations will follow the steps detailed below.

1. The homogenizing device will be cleaned as specified in the appropriate laboratory SOP (Attachment O), and the manufacturer's manual.
2. Tissues will be thawed at room temperature, if frozen.
3. Either: 1) whole organisms will be placed in the homogenizing device, or 2) samples will be resected as specified by the QAPP (Worksheet No. 11, Table 11-1), and resected portions (e.g., fillet and remaining carcass portions) designated for analysis will be placed in the homogenizing device.
    - Resecting may include removing the organism's skin, scales, shell, or exoskeleton.
4. Sample will be homogenized.
5. Sample will be extracted (if required) and analyzed.

IX. Sample Preservation

Generally, fish will be placed on wet ice on the boat, transferred to a freezer at the staging area (or processed if logistically acceptable), and shipped frozen to the analytical laboratory.

X. Quality Control Samples

To help identify potential sample contamination sources and to evaluate potential error introduced by sample collection and handling, field quality control (QC) samples will be collected during the fish tissue sample collection and processing. All QC samples will be labeled and sent to the laboratory with the other samples for analysis, if fish tissue samples are processed in the field. QC samples for fish tissue collection, wherever done, in the field or at the laboratory, will include rinsate of homogenization equipment samples, field duplicate samples, and matrix spike/matrix spike duplicate samples, and will be collected at the frequency specified in the QAPP.

XI. Reference

Integral, Windward, Ellis Ecological Services. 2005. Portland Harbor RI/FS Appendix A: Standard operating procedures for fish dissection, tissue sample handling and processing. Prepared for Lower Willamette Group. Integral Consulting, Inc., Mercer Island, WA; Windward Environmental LLC, Seattle, WA; Ellis Ecological Services, OR.

Malcolm Pirnie, Earth Tech, Battelle. 2006. Lower Passaic River Restoration Project. Draft field sampling plan. Volume 2. Prepared for US Environmental Protection Agency, US Army Corps of Engineers, and New Jersey Department of Transportation/Office of Maritime Resources. Malcolm Pirnie, Inc., White Plains, NY; Earth Tech, Inc., Bloomfield, NJ; Battelle, Stony Brook, NY.

Tierra Solutions. 1999. Passaic River Study Area ecological sampling plan. Work plan/field sampling plan. Volume 1 of 6. Tierra Solutions, Inc., Newark, NJ.

Windward. 2009. Lower Passaic River Restoration Project. Lower Passaic River Study Area RI/FS. Quality Assurance Project Plan: Fish and decapod crustacean tissue collection for chemical analysis and fish community survey. Final. Prepared for Cooperating Parties Group, Newark, New Jersey. Windward Environmental LLC, Seattle, WA.

APPENDIX G: CATCH SUMMARY

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	White catfish	*Ameiurus catus*	AC200908181201-8	1	nd	na	nd	indeterminant	LPR4P-A1	Gillnet	2009-08-18 12:01:00	
Community survey	White catfish	*Ameiurus catus*	AC200909021337-1	1	445	na	1000	indeterminant	LPR2J-A2	Gillnet	2009-09-02 13:37:00	
Community survey	White catfish	*Ameiurus catus*	AC200909080804-10	1	nd	na	nd	indeterminant	LPR8Q-C1	Trotline	2009-09-08 08:04:00	
Community survey	White catfish	*Ameiurus catus*	AC200909080844-11	1	nd	na	nd	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Community survey	White catfish	*Ameiurus catus*	AC200909150923-3	1	339	na	515	indeterminant	LPR4P-A6	Gillnet	2009-09-15 09:23:00	
Community survey	White catfish	*Ameiurus catus*	AC200909150953-6	1	352	na	510	indeterminant	LPR4L-A6	Gillnet	2009-09-15 09:53:00	
Community survey	American eel	*Anguilla rostrata*	AR200908111130-7	1	335	na	75	indeterminant	LPR3L-C1	Trotline	2009-08-11 11:30:00	
Community survey	American eel	*Anguilla rostrata*	AR200908120852-1	1	nd	na	nd	indeterminant	LPR3L-C2	Trotline	2009-08-12 08:52:00	
Community survey	American eel	*Anguilla rostrata*	AR200908180913-5	1	nd	na	nd	indeterminant	LPR5H-A1	Trotline	2009-08-18 09:13:00	
Community survey	American eel	*Anguilla rostrata*	AR200908190928-1	1	nd	na	nd	indeterminant	LPR5F-B2	Trotline	2009-08-19 09:28:00	
Community survey	American eel	*Anguilla rostrata*	AR200908201230-6	1	nd	na	nd	indeterminant	LPR5J-C3	Trotline	2009-08-20 12:30:00	
Community survey	American eel	*Anguilla rostrata*	AR200908211209-2	1	nd	na	nd	indeterminant	LPR5F-C4	Trotline	2009-08-21 12:09:00	
Community survey	American eel	*Anguilla rostrata*	AR200908211302-4	1	nd	na	nd	indeterminant	LPR5J-C4	Trotline	2009-08-21 13:02:00	
Community survey	American eel	*Anguilla rostrata*	AR200908211418-5	1	nd	na	nd	indeterminant	LPR4M-A4	Trotline	2009-08-21 14:18:00	
Community survey	American eel	*Anguilla rostrata*	AR200908211436-1	1	nd	na	nd	indeterminant	LPR4N-B4	Trotline	2009-08-21 14:36:00	
Community survey	American eel	*Anguilla rostrata*	AR200908211517-9	1	nd	na	nd	indeterminant	LPR4Q-C4	Trotline	2009-08-21 15:17:00	
Community survey	American eel	*Anguilla rostrata*	AR200908220723-2	1	nd	na	nd	indeterminant	LPR4L-A5	Gillnet	2009-08-22 07:23:00	
Community survey	American eel	*Anguilla rostrata*	AR200908220818-1	1	nd	na	nd	indeterminant	LPR5F-B5	Trotline	2009-08-22 08:18:00	
Community survey	American eel	*Anguilla rostrata*	AR200908250755-2	1	nd	na	nd	indeterminant	LPR6S-A1	Trotline	2009-08-25 07:55:00	
Community survey	American eel	*Anguilla rostrata*	AR200908270813-6	1	nd	na	nd	indeterminant	LPR6P-A3	Trotline	2009-08-27 08:13:00	
Community survey	American eel	*Anguilla rostrata*	AR200908280655-1	1	nd	na	nd	indeterminant	LPR6O-B4	Trotline	2009-08-28 06:55:00	
Community survey	American eel	*Anguilla rostrata*	AR200908280655-13	1	nd	na	nd	indeterminant	LPR6Q-B4	Trotline	2009-08-28 06:55:00	
Community survey	American eel	*Anguilla rostrata*	AR200908280954-6	1	nd	na	nd	Indeterminant	LPR7N-C4	Trotline	2009-08-28 09:54:00	
Community survey	American eel	*Anguilla rostrata*	AR200909041227-50	1	nd	na	nd	indeterminant	LPR2G-A3	Trotline	2009-09-04 12:27:00	
Community survey	American eel	*Anguilla rostrata*	AR200909041408-46	1	nd	na	nd	indeterminant	LPR1G-C3	Trotline	2009-09-04 14:08:00	
Community survey	American eel	*Anguilla rostrata*	AR200909041448-47	1	nd	na	nd	indeterminant	LPR1H-C3	Trotline	2009-09-04 14:48:00	
Community survey	American eel	*Anguilla rostrata*	AR200909051203-9	1	nd	na	nd	indeterminant	LPR1G-A5	Trotline	2009-09-05 12:03:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908110721-2	1	330	na	nd	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908110721-4	1	317	na	nd	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908110721-5	1	314	na	nd	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908120924-5	6	nd	nd	nd	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908130940-2	1	nd	na	nd	indeterminant	LPR3M-A3	Gillnet	2009-08-13 09:40:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908131000-6	1	nd	na	nd	indeterminant	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908131152-11	10	nd	nd	nd	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908140844-3	7	nd	nd	nd	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908150700-21	3	nd	nd	nd	indeterminant	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200908150820-18	1	nd	na	nd	indeterminant	LPR3N-A5	Gillnet	2009-08-15 08:20:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909011233-7	1	nd	na	nd	indeterminant	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909011310-11	6	276	325	nd	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909011404-15	5	285	327	520	indeterminant	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909021546-73	1	nd	na	nd	indeterminant	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909021633-76	3	nd	nd	nd	indeterminant	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Community survey	Atlantic menhaden	*Brevoortia tyrannus*	BT200909041022-48	1	nd	na	nd	indeterminant	LPR2I-A4	Gillnet	2009-09-04 10:22:00	
Community survey	Common carp	*Cyprinus carpio*	CC200908280707-14	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Community survey	Common carp	*Cyprinus carpio*	CC200908280707-2	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Common carp	*Cyprinus carpio*	CC200908290833-6	1	nd	na	nd	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Community survey	Weakfish	*Cynoscion regalis*	CR200908131152-12	2	nd	nd	nd	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Community survey	Weakfish	*Cynoscion regalis*	CR200909011404-16	1	262	180	nd	indeterminant	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908121029-6	2	nd	nd	nd	indeterminant	LPR3N-A2	Gillnet	2009-08-12 10:29:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908211221-3	1	nd	na	nd	indeterminant	LPR5G-A4	Gillnet	2009-08-21 12:21:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908211455-8	1	nd	na	nd	indeterminant	LPR4O-A4	Gillnet	2009-08-21 14:55:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908270706-12	1	nd	na	nd	indeterminant	LPR6N-A3	Gillnet	2009-08-27 07:06:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908270901-11	1	nd	na	nd	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908280707-15	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200908280707-3	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909011233-9	1	nd	na	nd	indeterminant	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909021337-65	1	nd	na	nd	indeterminant	LPR2J-A2	Gillnet	2009-09-02 13:37:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909021413-68	1	nd	na	nd	indeterminant	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909021502-70	1	nd	na	nd	indeterminant	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909021633-77	1	nd	na	nd	indeterminant	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909040939-2	1	nd	na	nd	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909040939-44	2	nd	nd	nd	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041015-12	1	23	na	1	indeterminant	LPR1BB-C5	Minnow Trap	2009-09-04 10:15:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041029-13	1	29	na	2	indeterminant	LPR1M-A4	Crab Trap	2009-09-04 10:29:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041038-15	2	24	34	5	indeterminant	LPR1P-A4	Eel Trap	2009-09-04 10:38:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041041-16	4	10	18	2	indeterminant	LPR1P-B4	Eel Trap	2009-09-04 10:41:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041056-19	1	20	na	1	indeterminant	LPR1Q-A4	Eel Trap	2009-09-04 10:56:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041235-54	1	nd	na	nd	indeterminant	LPR2J-A3	Gillnet	2009-09-04 12:35:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909041322-24	1	24	na	1	indeterminant	LPR2N-A3	Crab Trap	2009-09-04 13:22:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051017-19	1	20	na	0.5	indeterminant	LPR1P-A5	Eel Trap	2009-09-05 10:17:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051019-20	2	20	23	1	indeterminant	LPR1P-B5	Eel Trap	2009-09-05 10:19:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051029-15	2	27	35	3	indeterminant	LPR1M-B5	Crab Trap	2009-09-05 10:29:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051032-16	1	27	na	1	indeterminant	LPR1O-B5	Eel Trap	2009-09-05 10:32:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051055-13	2	nd	nd	nd	indeterminant	LPR1K-A5	Gillnet	2009-09-05 10:55:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051134-12	1	nd	na	nd	indeterminant	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909051213-11	2	nd	nd	nd	indeterminant	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Community survey	Blue crab	*Callinectes sapidus*	CS200909080844-12	1	nd	na	nd	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Community survey	Gizzard shad	*Dorosoma cepedianum*	DC200908180743-12	1	nd	na	nd	indeterminant	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Community survey	Channel catfish	*Ictalurus punctatus*	IP200908251156-4	1	nd	na	nd	indeterminant	LPR7N-A1	Trotline	2009-08-25 11:56:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081101-15	1	153	na	43	indeterminant	LPR8I-B1	Crayfish Trap	2009-09-08 11:01:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081138-16	9	95	125	229	indeterminant	LPR8M-A1	Crab Trap	2009-09-08 11:38:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081141-17	1	83	na	8	indeterminant	LPR8F-A1	Minnow Trap	2009-09-08 11:41:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081143-18	2	89	100	34	indeterminant	LPR8M-B1	Crab Trap	2009-09-08 11:43:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081145-19	1	22	na	1	indeterminant	LPR8F-B1	Minnow Trap	2009-09-08 11:45:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081232-21	1	78	na	9	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909081315-24	1	112	na	24	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909090749-3	13	84	166	481	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909090825-4	2	80	84	20	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909090951-5	8	92	174	461	indeterminant	LPR8X-A3	Boat Electrofishing	2009-09-09 09:51:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909091007-7	3	83	176	251	indeterminant	LPR8W-A3	Boat Electrofishing	2009-09-09 10:07:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909100838-2	3	78	102	45	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909100930-5	18	86	167	810	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909100955-16	5	88	137	123	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909101011-9	3	125	136	130	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909101016-7	1	95	na	2	indeterminant	LPR8G-B3	Crayfish Trap	2009-09-10 10:16:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909101030-11	14	83	189	880	indeterminant	LPR8X-A4	Boat Electrofishing	2009-09-10 10:30:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909111151-5	2	86	157	94	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909120758-4	4	93	172	190	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909120935-7	4	74	146	95	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909121057-8	2	102	178	160	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909181115-5	1	143	na	70	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909191100-3	1	94	na	25	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Community survey	Redbreast sunfish	*Lepomis auritus*	LA200909191359-8	1	110	na	45	indeterminant	LPR4R-A2	Boat Electrofishing	2009-09-19 13:59:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200709071350-2	2	116	145	58	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909071315-1	1	105	na	18	indeterminant	LPR8V-A1	Boat Electrofishing	2009-09-07 13:15:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909071400-3	1	118	na	29	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909080948-2	7	124	101	95	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909081030-6	1	98	na	20	indeterminant	LPR8V-A2	Boat Electrofishing	2009-09-08 10:30:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909081057-8	2	105	111	46	indeterminant	LPR8U-A2	Boat Electrofishing	2009-09-08 10:57:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909090749-2	3	87	113	63	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909090951-6	5	69	123	93	indeterminant	LPR8X-A3	Boat Electrofishing	2009-09-09 09:51:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909091007-8	5	13	14	70	indeterminant	LPR8W-A3	Boat Electrofishing	2009-09-09 10:07:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909091220-15	2	35	71	121	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909100838-1	3	109	135	115	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909100930-4	6	81	147	180	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909100955-17	3	62	101	43	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909101011-8	2	77	125	70	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909101030-12	4	107	132	140	indeterminant	LPR8X-A4	Boat Electrofishing	2009-09-10 10:30:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909111151-3	11	33	89	312	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909120749-10	1	103	na	31	indeterminant	LPR8H-B4	Crayfish Trap	2009-09-12 07:49:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909120758-5	1	127	na	50	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909151000-7	1	118	na	41	indeterminant	LPR6F-B6	Crab Trap	2009-09-15 10:00:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181010-1	7	120	155	390	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181035-3	8	111	141	350	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181115-4	6	85	125	200	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181157-7	2	109	113	50	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181206-14	2	120	162	145	indeterminant	LPR6F-A9	Crab Trap	2009-09-18 12:06:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181319-9	7	80	126	180	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181350-11	4	108	134	150	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909181410-12	4	95	140	160	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909190935-1	2	115	129	80	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909191012-2	1	119	na	55	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909191100-4	4	104	125	140	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909191133-6	1	120	na	70	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909191359-7	3	81	92	55	indeterminant	LPR4R-A2	Boat Electrofishing	2009-09-19 13:59:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Pumpkinseed	*Lepomis gibbosus*	LG200909191443-11	1	128	na	49	indeterminant	LPR6H-B10	Crab Trap	2009-09-19 14:43:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908260737-2	1	28	na	1	indeterminant	LPR6B-C2	Minnow Trap	2009-08-26 07:37:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908260816-1	1	31	na	0.3	indeterminant	LPR6D-C2	Minnow Trap	2009-08-26 08:16:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908270811-1	1	32	na	nd	indeterminant	LPR7A-C3	Minnow Trap	2009-08-27 08:11:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908270824-2	3	31	34	nd	indeterminant	LPR7C-A3	Minnow Trap	2009-08-27 08:24:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908270826-15	1	nd	na	nd	indeterminant	LPR7C-B3	Minnow Trap	2009-08-27 08:26:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908270826-3	2	32	40	nd	indeterminant	LPR7C-B3	Minnow Trap	2009-08-27 08:26:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908280803-7	1	35	na	0.5	indeterminant	LPR7A-C4	Minnow Trap	2009-08-28 08:03:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908280811-8	1	32	na	0.5	indeterminant	LPR7B-B4	Minnow Trap	2009-08-28 08:11:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908280820-9	2	32	35	1	indeterminant	LPR7C-A4	Minnow Trap	2009-08-28 08:20:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908290809-2	2	30	32	1	indeterminant	LPR7A-A5	Minnow Trap	2009-08-29 08:09:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908290847-4	1	35	na	0.5	indeterminant	LPR7E-C5	Minnow Trap	2009-08-29 08:47:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200908290848-3	1	35	na	0.5	indeterminant	LPR7E-A5	Minnow Trap	2009-08-29 08:48:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909080948-3	4	102	143	40	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909081009-5	2	102	123	42	indeterminant	LPR8X-A2	Boat Electrofishing	2009-09-08 10:09:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909081030-7	10	98	100	482	indeterminant	LPR8V-A2	Boat Electrofishing	2009-09-08 10:30:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909090958-11	1	30	na	2.5	indeterminant	LPR8D-C2	Minnow Trap	2009-09-09 09:58:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909091125-13	1	91	na	15	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909091220-16	8	39	179	186	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909091317-12	1	78	na	8	indeterminant	LPR8F-A2	Minnow Trap	2009-09-09 13:17:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909100840-15	1	96	na	18	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909100930-6	3	87	110	58	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909100955-19	1	115	na	28	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909101011-10	1	124	na	45	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909101153-20	1	40	na	1	indeterminant	LPR8A-A3	Minnow Trap	2009-09-10 11:53:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909110739-1	1	100	na	15	indeterminant	LPR8T-C4	Crayfish Trap	2009-09-11 07:39:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909111151-4	4	57	126	129	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909120758-6	1	156	na	75	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909121116-9	3	96	124	75	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909181010-2	1	98	na	40	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909181157-8	1	40	na	3	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909181319-10	2	64	110	50	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Community survey	Bluegill	*Lepomis macrochirus*	LM200909191424-9	1	159	na	110	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Community survey	White perch	*Morone americana*	MA200908110721-1	1	239	na	nd	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Community survey	White perch	*Morone americana*	MA200908120924-4	56	nd	nd	nd	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Community survey	White perch	*Morone americana*	MA200908121123-10	1	70	na	nd	indeterminant	LPR3C-C2	Minnow Trap	2009-08-12 11:23:00	
Community survey	White perch	*Morone americana*	MA200908121152-9	2	nd	nd	nd	indeterminant	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Community survey	White perch	*Morone americana*	MA200908130940-3	1	nd	na	nd	indeterminant	LPR3M-A3	Gillnet	2009-08-13 09:40:00	
Community survey	White perch	*Morone americana*	MA200908131000-5	35	nd	nd	nd	indeterminant	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Community survey	White perch	*Morone americana*	MA200908131152-10	32	nd	nd	nd	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Community survey	White perch	*Morone americana*	MA200908140746-6	1	195	na	110	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Community survey	White perch	*Morone americana*	MA200908140844-2	4	nd	nd	nd	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Community survey	White perch	*Morone americana*	MA200908150700-20	1	nd	na	nd	indeterminant	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Community survey	White perch	*Morone americana*	MA200908150820-19	17	nd	nd	nd	indeterminant	LPR3N-A5	Gillnet	2009-08-15 08:20:00	
Community survey	White perch	*Morone americana*	MA200908150850-22	6	nd	nd	nd	indeterminant	LPR3M-A5	Gillnet	2009-08-15 08:50:00	

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Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	White perch	*Morone americana*	MA200908180743-1	1	nd	na	nd	indeterminant	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Community survey	White perch	*Morone americana*	MA200908180840-4	6	nd	nd	nd	indeterminant	LPR5G-A1	Gillnet	2009-08-18 08:40:00	
Community survey	White perch	*Morone americana*	MA200908181035-6	1	nd	na	nd	indeterminant	LPR4L-A1	Gillnet	2009-08-18 10:35:00	
Community survey	White perch	*Morone americana*	MA200908191252-2	1	nd	na	nd	indeterminant	LPR4N-C2	Trotline	2009-08-19 12:52:00	
Community survey	White perch	*Morone americana*	MA200908201136-1	3	nd	nd	nd	indeterminant	LPR5G-A3	Gillnet	2009-08-20 11:36:00	
Community survey	White perch	*Morone americana*	MA200908220723-3	3	nd	nd	nd	indeterminant	LPR4L-A5	Gillnet	2009-08-22 07:23:00	
Community survey	White perch	*Morone americana*	MA200908250730-1	1	nd	na	nd	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	
Community survey	White perch	*Morone americana*	MA200908270706-4	1	nd	na	nd	indeterminant	LPR6N-A3	Gillnet	2009-08-27 07:06:00	
Community survey	White perch	*Morone americana*	MA200908270901-10	1	nd	na	nd	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Community survey	White perch	*Morone americana*	MA200908280707-16	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Community survey	White perch	*Morone americana*	MA200908280707-4	1	nd	na	nd	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Community survey	White perch	*Morone americana*	MA200908290748-5	1	nd	na	nd	indeterminant	LPR6M-A5	Gillnet	2009-08-29 07:48:00	
Community survey	White perch	*Morone americana*	MA200909011132-6	2	nd	nd	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	White perch	*Morone americana*	MA200909011132-60	1	nd	na	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	White perch	*Morone americana*	MA200909021413-2	1	nd	na	nd	indeterminant	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Community survey	White perch	*Morone americana*	MA200909021502-69	1	nd	na	nd	indeterminant	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Community survey	White perch	*Morone americana*	MA200909021546-74	1	nd	na	nd	indeterminant	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Community survey	White perch	*Morone americana*	MA200909040939-45	1	nd	na	nd	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Community survey	White perch	*Morone americana*	MA200909041022-49	1	nd	na	nd	indeterminant	LPR2I-A4	Gillnet	2009-09-04 10:22:00	
Community survey	White perch	*Morone americana*	MA200909041128-47	1	nd	na	nd	indeterminant	LPR2H-B4	Trotline	2009-09-04 11:28:00	
Community survey	White perch	*Morone americana*	MA200909041150-51	1	nd	na	nd	indeterminant	LPR2I-A3	Gillnet	2009-09-04 11:50:00	
Community survey	White perch	*Morone americana*	MA200909041222-43	2	nd	nd	nd	indeterminant	LPR1I-A4	Gillnet	2009-09-04 12:22:00	
Community survey	White perch	*Morone americana*	MA200909041313-55	2	nd	nd	nd	indeterminant	LPR2K-A3	Gillnet	2009-09-04 13:13:00	
Community survey	White perch	*Morone americana*	MA200909051406-35	2	nd	nd	nd	indeterminant	LPR2I-A5	Gillnet	2009-09-05 14:06:00	
Community survey	White perch	*Morone americana*	MA200909090915-10	1	nd	na	nd	indeterminant	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Community survey	White perch	*Morone americana*	MA200909101302-18	3	nd	nd	nd	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Community survey	White perch	*Morone americana*	MA200909150834-2	1	nd	na	nd	indeterminant	LPR5I-A2	Gillnet	2009-09-15 08:34:00	
Community survey	White perch	*Morone americana*	MA200909150938-4	1	nd	na	nd	indeterminant	LPR4O-A6	Gillnet	2009-09-15 09:38:00	
Community survey	White perch	*Morone americana*	MA200909150953-5	1	nd	na	nd	indeterminant	LPR4L-A6	Gillnet	2009-09-15 09:53:00	
Community survey	White perch	*Morone americana*	MA200909160934-1	3	nd	nd	nd	indeterminant	LPR5E-A6	Gillnet	2009-09-16 09:34:00	
Community survey	White perch	*Morone americana*	MA200909161008-2	7	nd	nd	nd	indeterminant	LPR4O-A7	Gillnet	2009-09-16 10:08:00	
Community survey	Smallmouth bass	*Micropterus dolomieu*	MD200908250810-3	1	nd	na	nd	indeterminant	LPR6S-C1	Trotline	2009-08-25 08:10:00	
Community survey	Smallmouth bass	*Micropterus dolomieu*	MD200909081009-4	2	205	219	243	indeterminant	LPR8X-A2	Boat Electrofishing	2009-09-08 10:09:00	
Community survey	Smallmouth bass	*Micropterus dolomieu*	MD200909090749-1	3	287	317	1080	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Community survey	Smallmouth bass	*Micropterus dolomieu*	MD200909091007-9	1	212	na	108	indeterminant	LPR8W-A3	Boat Electrofishing	2009-09-09 10:07:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909011235-55	1	nd	na	nd	indeterminant	LPR1D-A1	Minnow Trap	2009-09-01 12:35:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909011457-17	1	72	na	2	indeterminant	LPR2R-A1	Dip Net	2009-09-01 14:57:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021343-35	7	72	91	27	indeterminant	LPR2B-A2	Minnow Trap	2009-09-02 13:43:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021435-45	4	73	90	16	indeterminant	LPR2P-C2	Eel Trap	2009-09-02 14:35:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021534-63	5	60	87	18	indeterminant	LPR1BB-B3	Minnow Trap	2009-09-02 15:34:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021537-62	31	63	98	125	indeterminant	LPR1BB-A3	Minnow Trap	2009-09-02 15:37:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021548-61	2	72	79	6	indeterminant	LPR1AA-C3	Minnow Trap	2009-09-02 15:48:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909021550-58	4	65	91	15	indeterminant	LPR1AA-B3	Minnow Trap	2009-09-02 15:50:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909041218-16	1	73	na	4	indeterminant	LPR1P-A3	Eel Trap	2009-09-04 12:18:00	
Community survey	Atlantic silverside	*Menidia menidia*	MM200909041423-37	1	78	na	4	indeterminant	LPR2B-A3	Minnow Trap	2009-09-04 14:23:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Atlantic silverside	*Menidia menidia*	MM200909041426-38	1	65	na	3	indeterminant	LPR2B-C3	Minnow Trap	2009-09-04 14:26:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909010955-19	1	nd	na	nd	indeterminant	LPR1O-A1	Eel Trap	2009-09-01 09:55:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011000-22	2	nd	nd	nd	indeterminant	LPR1A-B1	Minnow Trap	2009-09-01 10:00:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011002-1	11	nd	nd	nd	indeterminant	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011004-23	2	nd	nd	nd	indeterminant	LPR1O-B1	Eel Trap	2009-09-01 10:04:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011008-26	2	nd	nd	nd	indeterminant	LPR1A-C1	Minnow Trap	2009-09-01 10:08:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011014-29	1	nd	na	nd	indeterminant	LPR1O-C1	Eel Trap	2009-09-01 10:14:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011027-31	1	nd	na	nd	indeterminant	LPR1P-B1	Eel Trap	2009-09-01 10:27:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011055-34	2	nd	nd	nd	indeterminant	LPR2E-A1	Minnow Trap	2009-09-01 10:55:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011058-35	2	nd	nd	nd	indeterminant	LPR2E-B1	Minnow Trap	2009-09-01 10:58:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011102-38	1	nd	na	nd	indeterminant	LPR2E-C1	Minnow Trap	2009-09-01 11:02:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011124-40	1	nd	na	nd	indeterminant	LPR2Q-A1	Eel Trap	2009-09-01 11:24:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011124-59	4	nd	nd	nd	indeterminant	LPR2H-B1	Trotline	2009-09-01 11:24:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011126-41	3	nd	nd	nd	indeterminant	LPR2Q-B1	Eel Trap	2009-09-01 11:26:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011129-44	2	nd	nd	nd	indeterminant	LPR2Q-C1	Eel Trap	2009-09-01 11:29:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011204-49	1	nd	na	nd	indeterminant	LPR2B-B1	Minnow Trap	2009-09-01 12:04:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011219-52	2	nd	nd	nd	indeterminant	LPR2O-B1	Eel Trap	2009-09-01 12:19:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011232-54	3	nd	nd	nd	indeterminant	LPR1Q-A1	Eel Trap	2009-09-01 12:32:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011233-63	5	nd	nd	nd	indeterminant	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011246-56	1	nd	na	nd	indeterminant	LPR1D-B1	Minnow Trap	2009-09-01 12:46:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011251-58	1	nd	na	nd	indeterminant	LPR1D-C1	Minnow Trap	2009-09-01 12:51:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909011303-64	3	nd	nd	nd	indeterminant	LPR1G-C1	Trotline	2009-09-01 13:03:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021153-8	1	nd	na	nd	indeterminant	LPR1A-B2	Minnow Trap	2009-09-02 11:53:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021154-10	1	nd	na	nd	indeterminant	LPR1A-C2	Minnow Trap	2009-09-02 11:54:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021222-13	1	nd	na	nd	indeterminant	LPR1O-C2	Eel Trap	2009-09-02 12:22:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021225-14	4	nd	nd	nd	indeterminant	LPR1O-B2	Eel Trap	2009-09-02 12:25:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021226-64	2	nd	nd	nd	indeterminant	LPR2I-A2	Gillnet	2009-09-02 12:26:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021227-17	1	nd	na	nd	indeterminant	LPR1O-A2	Eel Trap	2009-09-02 12:27:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021231-19	1	nd	na	nd	indeterminant	LPR1B-C2	Minnow Trap	2009-09-02 12:31:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021233-23	2	nd	nd	nd	indeterminant	LPR1B-A2	Minnow Trap	2009-09-02 12:33:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021259-24	1	nd	na	nd	indeterminant	LPR1P-C2	Eel Trap	2009-09-02 12:59:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021313-29	1	nd	na	nd	indeterminant	LPR1D-A2	Minnow Trap	2009-09-02 13:13:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021316-30	6	nd	nd	nd	indeterminant	LPR1D-B2	Minnow Trap	2009-09-02 13:16:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021323-32	3	nd	nd	nd	indeterminant	LPR1Q-A2	Eel Trap	2009-09-02 13:23:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021409-66	3	nd	nd	nd	indeterminant	LPR2H-C2	Trotline	2009-09-02 14:09:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021413-67	2	nd	nd	nd	indeterminant	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021418-41	2	nd	nd	nd	indeterminant	LPR2C-B2	Minnow Trap	2009-09-02 14:18:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021422-42	1	nd	na	nd	indeterminant	LPR2C-A2	Minnow Trap	2009-09-02 14:22:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021440-48	2	nd	nd	nd	indeterminant	LPR2P-B2	Eel Trap	2009-09-02 14:40:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021451-51	2	nd	nd	nd	indeterminant	LPR2Q-B2	Eel Trap	2009-09-02 14:51:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021504-54	3	nd	nd	nd	indeterminant	LPR2E-C2	Minnow Trap	2009-09-02 15:04:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021506-55	1	nd	na	nd	indeterminant	LPR2E-B2	Minnow Trap	2009-09-02 15:06:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021535-71	1	nd	na	nd	indeterminant	LPR1G-B2	Trotline	2009-09-02 15:35:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909021538-72	1	nd	na	nd	indeterminant	LPR1G-C2	Trotline	2009-09-02 15:38:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909040939-46	2	nd	nd	nd	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041044-18	1	nd	na	nd	indeterminant	LPR1P-C4	Eel Trap	2009-09-04 10:44:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041137-31	6	nd	nd	nd	indeterminant	LPR2O-C4	Eel Trap	2009-09-04 11:37:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041139-50	3	nd	nd	nd	indeterminant	LPR2O-B4	Eel Trap	2009-09-04 11:39:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041139-9	1	nd	na	nd	indeterminant	LPR1O-A3	Eel Trap	2009-09-04 11:39:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041141-12	2	nd	nd	nd	indeterminant	LPR1O-B3	Eel Trap	2009-09-04 11:41:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041145-14	2	nd	nd	nd	indeterminant	LPR1O-C3	Eel Trap	2009-09-04 11:45:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041201-22	3	nd	nd	nd	indeterminant	LPR2C-B4	Minnow Trap	2009-09-04 12:01:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041203-20	2	nd	nd	nd	indeterminant	LPR2C-A4	Minnow Trap	2009-09-04 12:03:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041210-48	1	nd	na	nd	indeterminant	LPR2F-B3	Trotline	2009-09-04 12:10:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041216-37	2	nd	nd	nd	indeterminant	LPR2P-C4	Eel Trap	2009-09-04 12:16:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041218-35	1	nd	na	nd	indeterminant	LPR2P-B4	Eel Trap	2009-09-04 12:18:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041220-32	1	nd	na	nd	indeterminant	LPR2P-A4	Eel Trap	2009-09-04 12:20:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041227-49	1	nd	na	nd	indeterminant	LPR2G-A3	Trotline	2009-09-04 12:27:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041231-42	1	nd	na	nd	indeterminant	LPR2Q-C4	Eel Trap	2009-09-04 12:31:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041234-38	2	nd	nd	nd	indeterminant	LPR2Q-A4	Eel Trap	2009-09-04 12:34:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041235-53	1	nd	na	nd	indeterminant	LPR2J-A3	Gillnet	2009-09-04 12:35:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041236-39	2	nd	nd	nd	indeterminant	LPR2Q-B4	Eel Trap	2009-09-04 12:36:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041251-24	2	nd	nd	nd	indeterminant	LPR2E-B4	Minnow Trap	2009-09-04 12:51:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041315-19	2	nd	nd	nd	indeterminant	LPR2E-A3	Minnow Trap	2009-09-04 13:15:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041317-20	6	nd	nd	nd	indeterminant	LPR2E-B3	Minnow Trap	2009-09-04 13:17:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041319-23	6	nd	nd	nd	indeterminant	LPR2E-C3	Minnow Trap	2009-09-04 13:19:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041331-25	2	nd	nd	nd	indeterminant	LPR2Q-A3	Eel Trap	2009-09-04 13:31:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041332-27	1	nd	na	nd	indeterminant	LPR2Q-B3	Eel Trap	2009-09-04 13:32:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041333-28	1	nd	na	nd	indeterminant	LPR2Q-C3	Eel Trap	2009-09-04 13:33:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041356-31	5	nd	nd	nd	indeterminant	LPR2P-B3	Eel Trap	2009-09-04 13:56:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041357-32	2	nd	nd	nd	indeterminant	LPR2P-A3	Eel Trap	2009-09-04 13:57:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041358-35	6	nd	nd	nd	indeterminant	LPR2P-C3	Eel Trap	2009-09-04 13:58:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041405-44	1	nd	na	nd	indeterminant	LPR1G-A3	Trotline	2009-09-04 14:05:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041408-45	1	nd	na	nd	indeterminant	LPR1G-C3	Trotline	2009-09-04 14:08:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041426-39	1	nd	na	nd	indeterminant	LPR2B-C3	Minnow Trap	2009-09-04 14:26:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909041442-42	2	nd	nd	nd	indeterminant	LPR2O-B3	Eel Trap	2009-09-04 14:42:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051002-5	2	nd	nd	nd	indeterminant	LPR1AA-C6	Minnow Trap	2009-09-05 10:02:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051005-1	2	nd	nd	nd	indeterminant	LPR1AA-A6	Minnow Trap	2009-09-05 10:05:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051023-21	2	nd	nd	nd	indeterminant	LPR1P-C5	Eel Trap	2009-09-05 10:23:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051034-18	3	nd	nd	nd	indeterminant	LPR1O-C5	Eel Trap	2009-09-05 10:34:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051052-24	2	nd	nd	nd	indeterminant	LPR1Q-A5	Eel Trap	2009-09-05 10:52:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051055-14	20	nd	nd	nd	indeterminant	LPR1K-A5	Gillnet	2009-09-05 10:55:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051136-28	1	nd	na	nd	indeterminant	LPR2C-C5	Minnow Trap	2009-09-05 11:36:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051138-25	1	nd	na	nd	indeterminant	LPR2C-B5	Minnow Trap	2009-09-05 11:38:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051141-37	3	nd	nd	nd	indeterminant	LPR2M-A5	Crab Trap	2009-09-05 11:41:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051149-47	2	nd	nd	nd	indeterminant	LPR2P-C5	Eel Trap	2009-09-05 11:49:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051151-43	2	nd	nd	nd	indeterminant	LPR2P-A5	Eel Trap	2009-09-05 11:51:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051152-44	2	nd	nd	nd	indeterminant	LPR2P-B5	Eel Trap	2009-09-05 11:52:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051159-48	1	nd	na	nd	indeterminant	LPR2Q-A5	Eel Trap	2009-09-05 11:59:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051207-51	6	nd	nd	nd	indeterminant	LPR2Q-B5	Eel Trap	2009-09-05 12:07:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051233-33	3	nd	nd	nd	indeterminant	LPR2E-C5	Minnow Trap	2009-09-05 12:33:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051234-32	6	nd	nd	nd	indeterminant	LPR2E-B5	Minnow Trap	2009-09-05 12:34:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051236-29	6	nd	nd	nd	indeterminant	LPR2E-A5	Minnow Trap	2009-09-05 12:36:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909051420-38	5	nd	nd	nd	indeterminant	LPR2N-A5	Crab Trap	2009-09-05 14:20:00	
Community survey	Mud crab (unspecified)	*Various*	Mud Crab200909161117-4	1	nd	na	nd	indeterminant	LPR1G-C7	Trotline	2009-09-16 11:17:00	
Community survey	Spottail shiner	*Notropis hudsonius*	NH200909111103-2	7	24	65	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Community survey	Spottail shiner	*Notropis hudsonius*	NH200909181010-15	3	62	86	13	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Community survey	Spottail shiner	*Notropis hudsonius*	NH200909181115-6	3	58	109	30	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Community survey	Spottail shiner	*Notropis hudsonius*	NH200909181410-13	1	67	na	2	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Community survey	Spottail shiner	*Notropis hudsonius*	NH200909191100-5	1	60	na	2	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Community survey	Mud crab (unspecified)		OTHER200908111055-6	1	20	na	nd	indeterminant	LPR3F-B1	Crab Trap	2009-08-11 10:55:00	
Community survey	Mud crab (unspecified)		OTHER200908120851-2	1	15	na	nd	indeterminant	LPR3K-A2	Eel Trap	2009-08-12 08:51:00	
Community survey	Mud crab (unspecified)		OTHER200908120855-3	2	15	20	nd	indeterminant	LPR3K-C2	Eel Trap	2009-08-12 08:55:00	
Community survey	Mud crab (unspecified)		OTHER200908121029-7	2	15	20	nd	indeterminant	LPR3N-A2	Gillnet	2009-08-12 10:29:00	
Community survey	Mud crab (unspecified)		OTHER200908121152-8	2	15	20	nd	indeterminant	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Community survey	Mud crab (unspecified)		OTHER200908130857-4	2	10	15	nd	indeterminant	LPR3C-C3	Minnow Trap	2009-08-13 08:57:00	
Community survey	Grass shrimp		OTHER200908130928-1	1	46	na	nd	indeterminant	LPR3B-B3	Minnow Trap	2009-08-13 09:28:00	
Community survey	Grass shrimp		OTHER200908131123-8	5	30	50	nd	indeterminant	LPR3I-B3	Eel Trap	2009-08-13 11:23:00	
Community survey	Mud crab (unspecified)		OTHER200908131130-9	1	nd	na	nd	indeterminant	LPR3I-C3	Eel Trap	2009-08-13 11:30:00	
Community survey	Mud crab (unspecified)		OTHER200908140746-1	1	nd	na	nd	indeterminant	LPR3F-C4	Crab Trap	2009-08-14 07:46:00	
Community survey	Mud crab (unspecified)		OTHER200908140900-4	1	nd	na	nd	indeterminant	LPR3J-C4	Eel Trap	2009-08-14 09:00:00	
Community survey	Grass shrimp		OTHER200908150712-1	1	nd	na	nd	indeterminant	LPR3F-B5	Crab Trap	2009-08-15 07:12:00	
Community survey	Mud crab (unspecified)		OTHER200908150714-2	2	nd	nd	nd	indeterminant	LPR3F-C5	Crab Trap	2009-08-15 07:14:00	
Community survey	Mud crab (unspecified)		OTHER200908150734-7	1	nd	na	nd	indeterminant	LPR4D-C2	Minnow Trap	2009-08-15 07:34:00	
Community survey	Mud crab (unspecified)		OTHER200908150743-8	1	nd	na	nd	indeterminant	LPR4F-C2	Crab Trap	2009-08-15 07:43:00	
Community survey	Mud crab (unspecified)		OTHER200908150744-17	1	nd	na	nd	indeterminant	LPR3P-B5	Trotline	2009-08-15 07:44:00	
Community survey	Mud crab (unspecified)		OTHER200908150807-9	1	nd	na	nd	indeterminant	LPR4J-B2	Eel Trap	2009-08-15 08:07:00	
Community survey	Mud crab (unspecified)		OTHER200908150808-10	1	nd	na	nd	indeterminant	LPR4J-C2	Eel Trap	2009-08-15 08:08:00	
Community survey	Mud crab (unspecified)		OTHER200908150815-3	1	nd	na	nd	indeterminant	LPR3A-A5	Minnow Trap	2009-08-15 08:15:00	
Community survey	Grass shrimp		OTHER200908150818-4	1	nd	na	nd	indeterminant	LPR3A-B5	Minnow Trap	2009-08-15 08:18:00	
Community survey	Grass shrimp		OTHER200908150828-5	2	nd	nd	nd	indeterminant	LPR3B-A5	Minnow Trap	2009-08-15 08:28:00	
Community survey	Mud crab (unspecified)		OTHER200908150828-6	1	nd	na	nd	indeterminant	LPR3B-A5	Minnow Trap	2009-08-15 08:28:00	
Community survey	Grass shrimp		OTHER200908150854-11	1	nd	na	nd	indeterminant	LPR3C-A5	Minnow Trap	2009-08-15 08:54:00	
Community survey	Mud crab (unspecified)		OTHER200908150854-12	1	nd	na	nd	indeterminant	LPR3C-A5	Minnow Trap	2009-08-15 08:54:00	
Community survey	Mud crab (unspecified)		OTHER200908150902-13	1	nd	na	nd	indeterminant	LPR3I-C5	Eel Trap	2009-08-15 09:02:00	
Community survey	Grass shrimp		OTHER200908150902-14	1	nd	na	nd	indeterminant	LPR3I-C5	Eel Trap	2009-08-15 09:02:00	
Community survey	Mud crab (unspecified)		OTHER200908150906-15	1	nd	na	nd	indeterminant	LPR3I-A5	Eel Trap	2009-08-15 09:06:00	
Community survey	Grass shrimp		OTHER200908150906-16	1	nd	na	nd	indeterminant	LPR3I-A5	Eel Trap	2009-08-15 09:06:00	
Community survey	Mud crab (unspecified)		OTHER200908180805-3	1	nd	na	nd	indeterminant	LPR5F-B1	Trotline	2009-08-18 08:05:00	
Community survey	White sucker		OTHER200908180840-2	1	nd	na	nd	indeterminant	LPR5G-A1	Gillnet	2009-08-18 08:40:00	
Community survey	Grass shrimp		OTHER200908181036-9	2	nd	nd	nd	indeterminant	LPR4D-A3	Minnow Trap	2009-08-18 10:36:00	
Community survey	Mud crab (unspecified)		OTHER200908181046-10	1	nd	na	nd	indeterminant	LPR4G-C3	Crab Trap	2009-08-18 10:46:00	
Community survey	Mud crab (unspecified)		OTHER200908181054-7	1	nd	na	nd	indeterminant	LPR4M-B1	Trotline	2009-08-18 10:54:00	
Community survey	Mud crab (unspecified)		OTHER200908181119-11	1	nd	na	nd	indeterminant	LPR5P-B1	Eel Trap	2009-08-18 11:19:00	
Community survey	Mud crab (unspecified)		OTHER200908191101-3	2	nd	nd	nd	indeterminant	LPR4D-A4	Minnow Trap	2009-08-19 11:01:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Mud crab (unspecified)		OTHER200908191108-4	1	nd	na	nd	indeterminant	LPR4D-C4	Minnow Trap	2009-08-19 11:08:00	
Community survey	Mud crab (unspecified)		OTHER200908191232-5	1	nd	na	nd	indeterminant	LPR4I-B4	Eel Trap	2009-08-19 12:32:00	
Community survey	Turtle (unspecified)		OTHER200908201136-2	1	nd	na	nd	indeterminant	LPR5G-A3	Gillnet	2009-08-20 11:36:00	
Community survey	Mud crab (unspecified)		OTHER200908211418-6	1	nd	na	nd	indeterminant	LPR4M-A4	Trotline	2009-08-21 14:18:00	
Community survey	Mud crab (unspecified)		OTHER200908211431-7	1	nd	na	nd	indeterminant	LPR4N-C4	Trotline	2009-08-21 14:31:00	
Community survey	Mud crab (unspecified)		OTHER200908270748-5	1	nd	na	nd	indeterminant	LPR6R-C3	Trotline	2009-08-27 07:48:00	
Community survey	Mud crab (unspecified)		OTHER200908270817-7	1	nd	na	nd	indeterminant	LPR6P-B3	Trotline	2009-08-27 08:17:00	
Community survey	Mud crab (unspecified)		OTHER200908270901-9	1	nd	na	nd	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Community survey	Mud crab (unspecified)		OTHER200908280642-11	1	nd	na	nd	indeterminant	LPR6A-C4	Minnow Trap	2009-08-28 06:42:00	
Community survey	Mud crab (unspecified)		OTHER200908280651-12	1	nd	na	nd	indeterminant	LPR6I-B4	Crayfish Trap	2009-08-28 06:51:00	
Community survey	Mud crab (unspecified)		OTHER200908280820-10	1	nd	na	nd	indeterminant	LPR7C-A4	Minnow Trap	2009-08-28 08:20:00	
Community survey	Soft-shell turtle (unspecified)		OTHER200908291206-1	1	170	na	520	indeterminant	LPR7N-A5	Trotline	2009-08-29 12:06:00	
Community survey	Blue crab		OTHER200909011002-2	1	nd	na	nd	indeterminant	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Community survey	Snail (unspecified)		OTHER200909011010-27	46	nd	nd	nd	indeterminant	LPR1L-A1	Crab Trap	2009-09-01 10:10:00	
Community survey	Northern pipefish		OTHER200909011030-3	2	80	101	0.5	indeterminant	LPR1M-A1	Crab Trap	2009-09-01 10:30:00	
Community survey	Snail (unspecified)		OTHER200909021154-11	1	nd	na	nd	indeterminant	LPR1A-C2	Minnow Trap	2009-09-02 11:54:00	
Community survey	Snail (unspecified)		OTHER200909021208-12	12	nd	nd	nd	indeterminant	LPR1L-B2	Crab Trap	2009-09-02 12:08:00	
Community survey	Snail (unspecified)		OTHER200909021225-16	12	nd	nd	nd	indeterminant	LPR1O-B2	Eel Trap	2009-09-02 12:25:00	
Community survey	Crevalle jack		OTHER200909021231-1	1	45	na	0.7	indeterminant	LPR1B-C2	Minnow Trap	2009-09-02 12:31:00	
Community survey	Snail (unspecified)		OTHER200909021259-26	2	nd	nd	nd	indeterminant	LPR1P-C2	Eel Trap	2009-09-02 12:59:00	
Community survey	Snail (unspecified)		OTHER200909021300-27	1	nd	na	nd	indeterminant	LPR1P-B2	Eel Trap	2009-09-02 13:00:00	
Community survey	Snail (unspecified)		OTHER200909021548-60	19	nd	nd	nd	indeterminant	LPR1AA-C3	Minnow Trap	2009-09-02 15:48:00	
Community survey	Snail (unspecified)		OTHER200909021550-59	13	nd	nd	nd	indeterminant	LPR1AA-B3	Minnow Trap	2009-09-02 15:50:00	
Community survey	Goby (unspecified)		OTHER200909040946-7	1	nd	na	nd	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Community survey	Goby (unspecified)		OTHER200909040953-8	1	nd	na	nd	indeterminant	LPR1AA-C5	Minnow Trap	2009-09-04 09:53:00	
Community survey	Northern pipefish		OTHER200909041005-14	1	nd	na	nd	indeterminant	LPR1O-C4	Eel Trap	2009-09-04 10:05:00	
Community survey	Goby (unspecified)		OTHER200909041025-10	1	nd	na	nd	indeterminant	LPR1BB-A5	Minnow Trap	2009-09-04 10:25:00	
Community survey	Snail (unspecified)		OTHER200909041127-6	12	nd	nd	nd	indeterminant	LPR1L-A3	Crab Trap	2009-09-04 11:27:00	
Community survey	Snail (unspecified)		OTHER200909041135-7	1	nd	na	nd	indeterminant	LPR1L-B3	Crab Trap	2009-09-04 11:35:00	
Community survey	Snail (unspecified)		OTHER200909041139-8	2	nd	nd	nd	indeterminant	LPR1O-A3	Eel Trap	2009-09-04 11:39:00	
Community survey	Snail (unspecified)		OTHER200909041141-13	6	nd	nd	nd	indeterminant	LPR1O-B3	Eel Trap	2009-09-04 11:41:00	
Community survey	Northern pipefish		OTHER200909041218-17	1	97	na	0.5	indeterminant	LPR1P-A3	Eel Trap	2009-09-04 12:18:00	
Community survey	Snail (unspecified)		OTHER200909051002-6	1	nd	na	nd	indeterminant	LPR1AA-C6	Minnow Trap	2009-09-05 10:02:00	
Community survey	Goby (unspecified)		OTHER200909051003-4	2	32	37	1	indeterminant	LPR1AA-B6	Minnow Trap	2009-09-05 10:03:00	
Community survey	Snail (unspecified)		OTHER200909051005-2	11	nd	nd	nd	indeterminant	LPR1AA-A6	Minnow Trap	2009-09-05 10:05:00	
Community survey	Goby (unspecified)		OTHER200909051008-7	1	27	na	0.5	indeterminant	LPR1BB-C6	Minnow Trap	2009-09-05 10:08:00	
Community survey	Goby (unspecified)		OTHER200909051050-8	1	31	na	0.5	indeterminant	LPR1D-A5	Minnow Trap	2009-09-05 10:50:00	
Community survey	Blue mussel		OTHER200909051200-10	1	nd	na	nd	indeterminant	LPR1G-B5	Trotline	2009-09-05 12:00:00	
Community survey	Red-eared slider		OTHER200909080833-1	1	149	na	709	indeterminant	LPR8P-B1	Trotline	2009-09-08 08:33:00	
Community survey	Red-eared slider		OTHER200909080952-14	1	125	na	750	indeterminant	LPR8K-A1	Crab Trap	2009-09-08 09:52:00	
Community survey	Mottled sculpin		OTHER200909081315-23	3	26	30	2	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Community survey	Clam (unspecified)		OTHER200909091125-14	1	25	na	1.5	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Community survey	Red-eared slider		OTHER200909120801-1	1	142	na	210	indeterminant	LPR8P-C4	Trotline	2009-09-12 08:01:00	
Community survey	Catfish (unspecified)		OTHER200909120801-3	1	nd	na	nd	indeterminant	LPR8P-C4	Trotline	2009-09-12 08:01:00	
Community survey	Red-eared slider		OTHER200909120814-2	1	164	na	1000	indeterminant	LPR8P-A4	Trotline	2009-09-12 08:14:00	

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Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Chinese mitten crab		OTHER200909120935-11	2	64	74	266	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Community survey	Red-eared slider		OTHER200909190927-10	1	144	na	nd	indeterminant	LPR5K-B10	Crab Trap	2009-09-19 09:27:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909010955-18	6	nd	nd	nd	indeterminant	LPR1O-A1	Eel Trap	2009-09-01 09:55:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909010957-20	2	nd	nd	nd	indeterminant	LPR1A-A1	Minnow Trap	2009-09-01 09:57:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909010957-30	1	nd	na	nd	indeterminant	LPR1A-A1	Minnow Trap	2009-09-01 09:57:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011000-21	2	nd	nd	nd	indeterminant	LPR1A-B1	Minnow Trap	2009-09-01 10:00:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011004-24	2	nd	nd	nd	indeterminant	LPR1O-B1	Eel Trap	2009-09-01 10:04:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011008-25	3	nd	nd	nd	indeterminant	LPR1A-C1	Minnow Trap	2009-09-01 10:08:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011014-28	1	nd	na	nd	indeterminant	LPR1O-C1	Eel Trap	2009-09-01 10:14:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011029-32	1	nd	na	nd	indeterminant	LPR1P-C1	Eel Trap	2009-09-01 10:29:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011055-33	1	nd	na	nd	indeterminant	LPR2E-A1	Minnow Trap	2009-09-01 10:55:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011058-36	2	nd	nd	nd	indeterminant	LPR2E-B1	Minnow Trap	2009-09-01 10:58:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011102-37	1	nd	na	nd	indeterminant	LPR2E-C1	Minnow Trap	2009-09-01 11:02:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011124-39	6	nd	nd	nd	indeterminant	LPR2Q-A1	Eel Trap	2009-09-01 11:24:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011126-42	6	nd	nd	nd	indeterminant	LPR2Q-B1	Eel Trap	2009-09-01 11:26:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011129-43	5	nd	nd	nd	indeterminant	LPR2Q-C1	Eel Trap	2009-09-01 11:29:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011138-45	2	nd	nd	nd	indeterminant	LPR2P-B1	Eel Trap	2009-09-01 11:38:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011140-46	2	nd	nd	nd	indeterminant	LPR2P-A1	Eel Trap	2009-09-01 11:40:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011156-47	1	nd	na	nd	indeterminant	LPR2C-C1	Minnow Trap	2009-09-01 11:56:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011202-48	2	nd	nd	nd	indeterminant	LPR2B-A1	Minnow Trap	2009-09-01 12:02:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011217-50	4	nd	nd	nd	indeterminant	LPR2O-A1	Eel Trap	2009-09-01 12:17:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011219-51	2	nd	nd	nd	indeterminant	LPR2O-B1	Eel Trap	2009-09-01 12:19:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011232-53	10	nd	nd	nd	indeterminant	LPR1Q-A1	Eel Trap	2009-09-01 12:32:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909011246-57	1	nd	na	nd	indeterminant	LPR1D-B1	Minnow Trap	2009-09-01 12:46:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021152-6	10	nd	nd	nd	indeterminant	LPR1A-A2	Minnow Trap	2009-09-02 11:52:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021153-7	6	nd	nd	nd	indeterminant	LPR1A-B2	Minnow Trap	2009-09-02 11:53:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021154-9	3	nd	nd	nd	indeterminant	LPR1A-C2	Minnow Trap	2009-09-02 11:54:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021225-15	6	nd	nd	nd	indeterminant	LPR1O-B2	Eel Trap	2009-09-02 12:25:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021227-18	1	nd	na	nd	indeterminant	LPR1O-A2	Eel Trap	2009-09-02 12:27:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021231-20	1	nd	na	nd	indeterminant	LPR1B-C2	Minnow Trap	2009-09-02 12:31:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021232-21	6	nd	nd	nd	indeterminant	LPR1B-B2	Minnow Trap	2009-09-02 12:32:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021233-22	3	nd	nd	nd	indeterminant	LPR1B-A2	Minnow Trap	2009-09-02 12:33:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021259-25	1	nd	na	nd	indeterminant	LPR1P-C2	Eel Trap	2009-09-02 12:59:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021302-28	2	nd	nd	nd	indeterminant	LPR1P-A2	Eel Trap	2009-09-02 13:02:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021316-31	3	nd	nd	nd	indeterminant	LPR1D-B2	Minnow Trap	2009-09-02 13:16:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021323-33	10	nd	nd	nd	indeterminant	LPR1Q-A2	Eel Trap	2009-09-02 13:23:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021329-34	6	nd	nd	nd	indeterminant	LPR1D-C2	Minnow Trap	2009-09-02 13:29:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021403-36	6	nd	nd	nd	indeterminant	LPR2O-A2	Eel Trap	2009-09-02 14:03:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021406-37	10	nd	nd	nd	indeterminant	LPR2O-B2	Eel Trap	2009-09-02 14:06:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021409-38	5	nd	nd	nd	indeterminant	LPR2O-C2	Eel Trap	2009-09-02 14:09:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021415-39	2	nd	nd	nd	indeterminant	LPR2C-C2	Minnow Trap	2009-09-02 14:15:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021418-40	2	nd	nd	nd	indeterminant	LPR2C-B2	Minnow Trap	2009-09-02 14:18:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021422-43	3	nd	nd	nd	indeterminant	LPR2C-A2	Minnow Trap	2009-09-02 14:22:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021435-44	5	nd	nd	nd	indeterminant	LPR2P-C2	Eel Trap	2009-09-02 14:35:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021439-46	1	nd	na	nd	indeterminant	LPR2P-A2	Eel Trap	2009-09-02 14:39:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021440-47	3	nd	nd	nd	indeterminant	LPR2P-B2	Eel Trap	2009-09-02 14:40:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021448-49	5	nd	nd	nd	indeterminant	LPR2Q-C2	Eel Trap	2009-09-02 14:48:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021451-50	14	nd	nd	nd	indeterminant	LPR2Q-B2	Eel Trap	2009-09-02 14:51:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021454-52	10	nd	nd	nd	indeterminant	LPR2Q-A2	Eel Trap	2009-09-02 14:54:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021504-53	2	nd	nd	nd	indeterminant	LPR2E-C2	Minnow Trap	2009-09-02 15:04:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021506-56	2	nd	nd	nd	indeterminant	LPR2E-B2	Minnow Trap	2009-09-02 15:06:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909021511-57	2	nd	nd	nd	indeterminant	LPR2E-A2	Minnow Trap	2009-09-02 15:11:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909040940-5	12	nd	nd	nd	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909040946-6	3	nd	nd	nd	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909040953-9	6	nd	nd	nd	indeterminant	LPR1AA-C5	Minnow Trap	2009-09-04 09:53:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041019-11	10	nd	nd	nd	indeterminant	LPR1BB-B5	Minnow Trap	2009-09-04 10:19:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041044-17	3	nd	nd	nd	indeterminant	LPR1P-C4	Eel Trap	2009-09-04 10:44:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041120-3	1	nd	na	nd	indeterminant	LPR1AA-A3	Minnow Trap	2009-09-04 11:20:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041123-4	5	nd	nd	nd	indeterminant	LPR1AA-B3	Minnow Trap	2009-09-04 11:23:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041124-5	5	nd	nd	nd	indeterminant	LPR1AA-C3	Minnow Trap	2009-09-04 11:24:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041137-30	6	nd	nd	nd	indeterminant	LPR2O-C4	Eel Trap	2009-09-04 11:37:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041139-10	1	nd	na	nd	indeterminant	LPR1O-A3	Eel Trap	2009-09-04 11:39:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041139-29	6	nd	nd	nd	indeterminant	LPR2O-B4	Eel Trap	2009-09-04 11:39:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041140-28	3	nd	nd	nd	indeterminant	LPR2O-A4	Eel Trap	2009-09-04 11:40:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041141-11	3	nd	nd	nd	indeterminant	LPR1O-B3	Eel Trap	2009-09-04 11:41:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041152-15	12	nd	nd	nd	indeterminant	LPR1BB-C3	Minnow Trap	2009-09-04 11:52:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041159-23	2	nd	nd	nd	indeterminant	LPR2C-C4	Minnow Trap	2009-09-04 11:59:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041201-21	2	nd	nd	nd	indeterminant	LPR2C-B4	Minnow Trap	2009-09-04 12:01:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041216-36	5	nd	nd	nd	indeterminant	LPR2P-C4	Eel Trap	2009-09-04 12:16:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041218-34	2	nd	nd	nd	indeterminant	LPR2P-B4	Eel Trap	2009-09-04 12:18:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041220-33	1	nd	na	nd	indeterminant	LPR2P-A4	Eel Trap	2009-09-04 12:20:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041225-18	6	nd	nd	nd	indeterminant	LPR1P-C3	Eel Trap	2009-09-04 12:25:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041231-41	1	nd	na	nd	indeterminant	LPR2Q-C4	Eel Trap	2009-09-04 12:31:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041236-40	3	nd	nd	nd	indeterminant	LPR2Q-B4	Eel Trap	2009-09-04 12:36:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041249-26	13	nd	nd	nd	indeterminant	LPR2E-C4	Minnow Trap	2009-09-04 12:49:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041251-25	8	nd	nd	nd	indeterminant	LPR2E-B4	Minnow Trap	2009-09-04 12:51:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041317-21	6	nd	nd	nd	indeterminant	LPR2E-B3	Minnow Trap	2009-09-04 13:17:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041319-22	6	nd	nd	nd	indeterminant	LPR2E-C3	Minnow Trap	2009-09-04 13:19:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041331-26	1	nd	na	nd	indeterminant	LPR2Q-A3	Eel Trap	2009-09-04 13:31:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041333-29	2	nd	nd	nd	indeterminant	LPR2Q-C3	Eel Trap	2009-09-04 13:33:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041356-30	2	nd	nd	nd	indeterminant	LPR2P-B3	Eel Trap	2009-09-04 13:56:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041357-33	2	nd	nd	nd	indeterminant	LPR2P-A3	Eel Trap	2009-09-04 13:57:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041358-34	6	nd	nd	nd	indeterminant	LPR2P-C3	Eel Trap	2009-09-04 13:58:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041413-36	1	nd	na	nd	indeterminant	LPR2C-B3	Minnow Trap	2009-09-04 14:13:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041442-40	6	nd	nd	nd	indeterminant	LPR2O-A3	Eel Trap	2009-09-04 14:42:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041442-41	6	nd	nd	nd	indeterminant	LPR2O-B3	Eel Trap	2009-09-04 14:42:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909041444-43	12	nd	nd	nd	indeterminant	LPR2O-C3	Eel Trap	2009-09-04 14:44:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051005-3	2	nd	nd	nd	indeterminant	LPR1AA-A6	Minnow Trap	2009-09-05 10:05:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051023-22	2	nd	nd	nd	indeterminant	LPR1P-C5	Eel Trap	2009-09-05 10:23:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051034-17	5	nd	nd	nd	indeterminant	LPR1O-C5	Eel Trap	2009-09-05 10:34:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051052-23	3	nd	nd	nd	indeterminant	LPR1Q-A5	Eel Trap	2009-09-05 10:52:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051126-40	5	nd	nd	nd	indeterminant	LPR2O-B5	Eel Trap	2009-09-05 11:26:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051128-39	12	nd	nd	nd	indeterminant	LPR2O-A5	Eel Trap	2009-09-05 11:28:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051129-41	7	nd	nd	nd	indeterminant	LPR2O-C5	Eel Trap	2009-09-05 11:29:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051136-27	5	nd	nd	nd	indeterminant	LPR2C-C5	Minnow Trap	2009-09-05 11:36:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051138-26	3	nd	nd	nd	indeterminant	LPR2C-B5	Minnow Trap	2009-09-05 11:38:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051149-46	7	nd	nd	nd	indeterminant	LPR2P-C5	Eel Trap	2009-09-05 11:49:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051151-42	6	nd	nd	nd	indeterminant	LPR2P-A5	Eel Trap	2009-09-05 11:51:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051152-45	6	nd	nd	nd	indeterminant	LPR2P-B5	Eel Trap	2009-09-05 11:52:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051159-49	2	nd	nd	nd	indeterminant	LPR2Q-A5	Eel Trap	2009-09-05 11:59:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051201-52	2	nd	nd	nd	indeterminant	LPR2Q-C5	Eel Trap	2009-09-05 12:01:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051207-50	6	nd	nd	nd	indeterminant	LPR2Q-B5	Eel Trap	2009-09-05 12:07:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051233-34	2	nd	nd	nd	indeterminant	LPR2E-C5	Minnow Trap	2009-09-05 12:33:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051234-31	1	nd	na	nd	indeterminant	LPR2E-B5	Minnow Trap	2009-09-05 12:34:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909051236-30	6	nd	nd	nd	indeterminant	LPR2E-A5	Minnow Trap	2009-09-05 12:36:00	
Community survey	Grass shrimp	*Palaemonetes pugio*	PP200909081154-20	6	nd	nd	nd	indeterminant	LPR8T-C1	Crayfish Trap	2009-09-08 11:54:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011132-4	4	330	358	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011132-61	1	nd	na	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011233-8	2	222	345	nd	indeterminant	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011310-10	4	360	na	nd	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011310-65	2	nd	nd	nd	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909011404-14	3	242	324	565	indeterminant	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909021413-3	1	nd	na	nd	indeterminant	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909021502-4	8	227	360	2860	indeterminant	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909021546-75	1	nd	na	nd	indeterminant	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909040939-1	1	356	na	380	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909041150-52	1	nd	na	nd	indeterminant	LPR2I-A3	Gillnet	2009-09-04 11:50:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909041313-2	1	227	na	95	indeterminant	LPR2K-A3	Gillnet	2009-09-04 13:13:00	
Community survey	Bluefish	*Pomatomus saltatrix*	PS200909051323-36	2	nd	nd	nd	indeterminant	LPR2J-A5	Gillnet	2009-09-05 13:23:00	
Community survey	Striped bass	*Morone saxatilis*	SB200908131000-7	1	nd	na	nd	indeterminant	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Community survey	Striped bass	*Morone saxatilis*	SB200908131152-14	2	nd	nd	nd	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Community survey	Striped bass	*Morone saxatilis*	SB200908280958-5	1	278	na	230	indeterminant	LPR7N-A4	Trotline	2009-08-28 09:58:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909011132-5	5	212	228	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909011132-62	1	nd	na	nd	indeterminant	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909011310-12	3	245	345	545	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909011343-66	1	nd	na	nd	indeterminant	LPR1H-A1	Trotline	2009-09-01 13:43:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909011348-13	1	435	na	850	indeterminant	LPR1H-B1	Trotline	2009-09-01 13:48:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909021546-5	5	198	610	2120	indeterminant	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909041251-3	1	626	na	1000	indeterminant	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909041309-4	1	392	na	610	indeterminant	LPR1H-A4	Trotline	2009-09-04 13:09:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909081315-22	1	185	na	47	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Community survey	Striped bass	*Morone saxatilis*	SB200909101115-13	1	408	na	910	indeterminant	LPR8R-A3	Gillnet	2009-09-10 11:15:00	
Community survey	White sucker	*Catastomus commersoni*	WS200908270824-13	1	nd	na	nd	indeterminant	LPR6L-A3	Gillnet	2009-08-27 08:24:00	
Community survey	White sucker	*Catastomus commersoni*	WS200908270824-8	1	nd	na	nd	indeterminant	LPR6L-A3	Gillnet	2009-08-27 08:24:00	
Community survey	White sucker	*Catastomus commersoni*	WS200909080844-13	1	nd	na	nd	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	

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Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Community survey	White sucker	*Catastomus commersoni*	WS200909081057-9	3	371	398	1559	indeterminant	LPR8U-A2	Boat Electrofishing	2009-09-08 10:57:00	
Community survey	White sucker	*Catastomus commersoni*	WS200909100930-3	6	318	406	3264	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Community survey	White sucker	*Catastomus commersoni*	WS200909101115-14	1	357	na	1000	indeterminant	LPR8R-A3	Gillnet	2009-09-10 11:15:00	
Community survey	White sucker	*Catastomus commersoni*	WS200909150834-1	1	411	na	700	indeterminant	LPR5I-A2	Gillnet	2009-09-15 08:34:00	
Community survey	White sucker	*Catastomus commersoni*	WS200909161008-3	1	nd	na	nd	indeterminant	LPR4O-A7	Gillnet	2009-09-16 10:08:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1G-AR075	1	550	na	364	indeterminant	LPR1G-A1	Trotline	2009-09-01 12:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1G-AR077	1	520	na	312	indeterminant	LPR1G-A2	Trotline	2009-09-02 15:29:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1G-AR080	1	580	na	400	indeterminant	LPR1G-C3	Trotline	2009-09-03 14:08:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1G-AR085	1	575	na	452	indeterminant	LPR1G-A5	Trotline	2009-09-05 12:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1G-AR646	1	529	na	326	indeterminant	LPR1G-A10	Trotline	2009-09-19 10:27:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1Q-AR081	1	392	na	64	indeterminant	LPR1Q-A3	Eel Trap	2009-09-03 12:37:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1Q-AR082	1	287	na	46	indeterminant	LPR1Q-A3	Eel Trap	2009-09-03 12:37:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR1Q-AR083	1	340	na	60	indeterminant	LPR1Q-A3	Eel Trap	2009-09-03 12:37:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR2E-AR076	1	237	na	18	indeterminant	LPR2E-C1	Minnow Trap	2009-09-01 11:02:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR2F-AR084	1	400	na	118	indeterminant	LPR2F-A4	Trotline	2009-09-04 14:07:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR2G-AR079	1	470	na	232	indeterminant	LPR2G-A3	Trotline	2009-09-03 12:27:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR2N-AR078	1	508	na	250	indeterminant	LPR2N-C2	Crab Trap	2009-09-02 14:59:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3B-AR019	1	250	na	40	indeterminant	LPR3B-B4	Minnow Trap	2009-08-14 09:43:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3F-AR015	1	426	na	128	indeterminant	LPR3F-C4	Crab Trap	2009-08-14 07:46:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3F-AR016	1	320	na	70	indeterminant	LPR3F-C4	Crab Trap	2009-08-14 07:46:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3I-AR011	1	216	na	16	indeterminant	LPR3I-A2	Eel Trap	2009-08-12 10:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3L-AR006	1	520	na	360	indeterminant	LPR3L-A1	Trotline	2009-08-11 11:08:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3L-AR007	1	525	na	290	indeterminant	LPR3L-B1	Trotline	2009-08-11 11:21:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3L-AR008	1	415	na	152	indeterminant	LPR3L-B1	Trotline	2009-08-11 11:21:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3L-AR009	1	480	na	285	indeterminant	LPR3L-C1	Trotline	2009-08-11 11:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3L-AR010	1	620	na	490	indeterminant	LPR3L-C2	Trotline	2009-08-12 09:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3P-AR001	1	551	na	375	indeterminant	LPR3P-B1	Trotline	2009-08-11 07:46:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3P-AR002	1	500	na	255	indeterminant	LPR3P-C1	Trotline	2009-08-11 08:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3P-AR003	1	400	na	159	indeterminant	LPR3P-C1	Trotline	2009-08-11 08:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3P-AR014	1	750	na	850	indeterminant	LPR3P-A2	Trotline	2009-08-12 12:28:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3Q-AR004	1	500	na	390	indeterminant	LPR3Q-A1	Trotline	2009-08-11 08:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3Q-AR005	1	600	na	438	indeterminant	LPR3Q-C1	Trotline	2009-08-11 09:13:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3Q-AR012	1	635	na	420	indeterminant	LPR3Q-B2	Trotline	2009-08-12 11:36:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR3Q-AR013	1	450	na	196	indeterminant	LPR3Q-B2	Trotline	2009-08-12 11:36:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4C-AR018	1	335	na	60	indeterminant	LPR4C-B1	Minnow Trap	2009-08-14 07:47:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4D-AR023	1	207	na	16	indeterminant	LPR4D-B3	Minnow Trap	2009-08-18 08:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4F-AR022	1	662	na	616	indeterminant	LPR4F-B3	Crab Trap	2009-08-18 08:42:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4J-AR017	1	264	na	46	indeterminant	LPR4J-C1	Eel Trap	2009-08-14 07:57:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4L-AR054	1	560	na	386	indeterminant	LPR4L-A5	Gillnet	2009-08-22 07:23:00	Dead and pale; squishy; tail eaten
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR033	1	273	na	44	indeterminant	LPR4M-C2	Trotline	2009-08-19 12:31:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR035	1	680	na	656	indeterminant	LPR4M-B2	Trotline	2009-08-19 12:21:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR041	1	610	na	468	indeterminant	LPR4M-C3	Trotline	2009-08-20 13:44:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR042	1	482	na	226	indeterminant	LPR4M-A3	Trotline	2009-08-20 13:39:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR055	1	570	na	106	indeterminant	LPR4M-B5	Trotline	2009-08-22 07:53:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4M-AR056	1	480	na	244	indeterminant	LPR4M-B5	Trotline	2009-08-22 07:53:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR4N-AR024	1	511	na	318	indeterminant	LPR4N-C1	Trotline	2009-08-18 11:28:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4N-AR032	1	561	na	362	indeterminant	LPR4N-A2	Trotline	2009-08-19 12:44:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4N-AR034	1	463	na	622	indeterminant	LPR4N-A2	Trotline	2009-08-19 12:44:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4N-AR050	1	500	na	250	indeterminant	LPR4N-A4	Trotline	2009-08-21 14:42:00	Urogenital opening swollen
Tissue analysis	American eel	*Anguilla rostrata*	LPR4N-AR060	1	550	na	352	indeterminant	LPR4N-C5	Trotline	2009-08-22 08:17:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4Q-AR025	1	603	na	422	indeterminant	LPR4Q-C1	Trotline	2009-08-18 12:39:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4Q-AR026	1	650	na	608	indeterminant	LPR4Q-A1	Trotline	2009-08-18 12:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4Q-AR043	1	561	na	366	indeterminant	LPR4Q-A3	Trotline	2009-08-20 14:42:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR4Q-AR044	1	652	na	666	indeterminant	LPR4Q-A3	Trotline	2009-08-20 14:42:00	Bloody
Tissue analysis	American eel	*Anguilla rostrata*	LPR5A-AR051	1	299	na	46	indeterminant	LPR5A-A4	Minnow Trap	2009-08-21 11:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5A-AR052	1	314	na	68	indeterminant	LPR5A-A4	Minnow Trap	2009-08-21 11:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5A-AR057	1	300	na	52	indeterminant	LPR5A-C5	Minnow Trap	2009-08-22 08:13:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5A-AR058	1	270	na	42	indeterminant	LPR5A-A5	Minnow Trap	2009-08-22 08:19:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5A-AR059	1	170	na	16	indeterminant	LPR5A-A5	Minnow Trap	2009-08-22 08:19:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5B-AR029	1	322	na	60	indeterminant	LPR5B-C2	Minnow Trap	2009-08-19 09:45:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5B-AR053	1	255	na	38	indeterminant	LPR5B-C4	Minnow Trap	2009-08-21 12:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR020	1	490	na	260	indeterminant	LPR5F-B1	Trotline	2009-08-18 08:05:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR021	1	578	na	518	indeterminant	LPR5F-A1	Trotline	2009-08-18 08:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR028	1	564	na	380	indeterminant	LPR5F-B2	Trotline	2009-08-19 09:28:00	Growth observed
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR036	1	43	na	138	indeterminant	LPR5F-C3	Trotline	2009-08-20 11:23:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR048	1	615	na	542	indeterminant	LPR5F-C4	Trotline	2009-08-21 12:09:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5F-AR049	1	675	na	638	indeterminant	LPR5F-B4	Trotline	2009-08-21 11:56:00	Dead and pale, swollen bulbous anus
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR030	1	592	na	524	indeterminant	LPR5H-C2	Trotline	2009-08-19 10:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR031	1	475	na	206	indeterminant	LPR5H-A2	Trotline	2009-08-19 10:43:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR037	1	460	na	246	indeterminant	LPR5H-A3	Trotline	2009-08-20 12:04:00	Bloody
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR038	1	473	na	244	indeterminant	LPR5H-B3	Trotline	2009-08-20 11:59:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR061	1	480	na	254	indeterminant	LPR5H-B5	Trotline	2009-08-22 09:17:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5H-AR062	1	560	na	390	indeterminant	LPR5H-C5	Trotline	2009-08-22 09:22:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5J-AR039	1	550	na	370	indeterminant	LPR5J-C3	Trotline	2009-08-20 12:30:00	Bloody
Tissue analysis	American eel	*Anguilla rostrata*	LPR5J-AR040	1	610	na	506	indeterminant	LPR5J-A3	Trotline	2009-08-20 12:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5J-AR063	1	300	na	48	indeterminant	LPR5J-C5	Trotline	2009-08-22 09:48:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5J-AR064	1	360	na	96	indeterminant	LPR5J-B5	Trotline	2009-08-22 09:44:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR5M-AR086	1	570	na	442	indeterminant	LPR5M-B3	Crab Trap	2009-09-05 15:15:00	trap lost on 8/19/09 was recovered
Tissue analysis	American eel	*Anguilla rostrata*	LPR5P-AR027	1	218	na	16	indeterminant	LPR5P-B1	Eel Trap	2009-08-18 11:19:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6B-AR068	1	319	na	66	indeterminant	LPR6B-B1	Minnow Trap	2009-08-25 07:13:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6F-AR645	1	319	na	66	indeterminant	LPR6F-A10	Crab Trap	2009-09-19 08:48:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6O-AR069	1	449	na	214	indeterminant	LPR6O-B3	Trotline	2009-08-27 08:47:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6O-AR073	1	741	na	778	indeterminant	LPR6O-A5	Trotline	2009-08-29 08:27:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6P-AR065	1	590	na	580	indeterminant	LPR6P-A1	Trotline	2009-08-25 09:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR6R-AR074	1	481	na	258	indeterminant	LPR6R-C5	Trotline	2009-08-29 10:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR7D-AR072	1	245	na	28	indeterminant	LPR7D-B4	Minnow Trap	2009-08-28 08:28:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR7E-AR066	1	240	na	28	indeterminant	LPR7E-A1	Minnow Trap	2009-08-25 09:48:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR7E-AR067	1	262	na	34	indeterminant	LPR7E-C1	Minnow Trap	2009-08-25 09:46:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR7H-AR070	1	373	na	126	indeterminant	LPR7H-A3	Crab Trap	2009-08-27 08:08:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR7O-AR071	1	624	na	600	indeterminant	LPR7O-A3	Trotline	2009-08-27 11:08:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8D-AR628	1	297	na	47	indeterminant	LPR8D-A4	Minnow Trap	2009-09-12 08:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8D-AR629	1	260	na	31	indeterminant	LPR8D-A4	Minnow Trap	2009-09-12 08:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8F-AR129	1	243	na	17.5	indeterminant	LPR8F-A1	Minnow Trap	2009-09-08 11:41:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR159	1	185	na	10	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR160	1	269	na	32	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR161	1	310	na	36	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR162	1	290	na	44	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR163	1	264	na	28	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR164	1	259	na	24	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR165	1	251	na	28	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR166	1	225	na	16	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR167	1	287	na	36	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR168	1	224	na	16	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR169	1	177	na	8	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR170	1	174	na	8	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR171	1	168	na	8	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR292	1	198	na	14	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR293	1	232	na	20	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8U-AR627	1	209	na	13	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR106	1	244	na	22	indeterminant	LPR8V-A2	Boat Electrofishing	2009-09-08 10:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR107	1	277	na	44	indeterminant	LPR8V-A2	Boat Electrofishing	2009-09-08 10:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR172	1	267	na	32	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR173	1	325	na	64	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR174	1	249	na	20	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR175	1	268	na	36	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR178	1	273	na	38	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR179	1	247	na	24	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR180	1	267	na	36	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR181	1	213	na	18	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR182	1	247	na	26	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR183	1	185	na	10	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR184	1	162	na	8	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR185	1	110	na	4	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR186	1	151	na	8	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR187	1	145	na	4	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR336	1	227	na	28	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR337	1	282	na	44	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR338	1	246	na	25	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR339	1	248	na	26	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR340	1	73	na	0.5	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR341	1	178	na	9	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR342	1	174	na	7	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR343	1	186	na	9	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	

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Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR344	1	135	na	3	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR345	1	222	na	16	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR633	1	278	na	30	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR634	1	265	na	24	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR635	1	224	na	19	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR636	1	241	na	20	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR637	1	239	na	24	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR638	1	252	na	26	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR639	1	187	na	10	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR640	1	282	na	34	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR641	1	278	na	34	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR642	1	213	na	14	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR643	1	174	na	10	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8V-AR644	1	250	na	21	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR087	1	282	na	40	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR088	1	259	na	26	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR089	1	202	na	12	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR090	1	117	na	2	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR091	1	212	na	16	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR092	1	186	na	9	indeterminant	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR105	1	296	na	46	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR289	1	269	na	36	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR290	1	184	na	6	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR631	1	191	na	9	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8W-AR632	1	285	na	38	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR093	1	237	na	20	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR094	1	143	na	8	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR095	1	217	na	20	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR096	1	224	na	18	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR097	1	268	na	40	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR098	1	273	na	34	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR099	1	224	na	20	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR100	1	271	na	30	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR101	1	266	na	32	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR102	1	246	na	18	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR103	1	244	na	26	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR104	1	257	na	32	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR188	1	249	na	24	indeterminant	LPR8X-A3	Boat Electrofishing	2009-09-09 09:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR291	1	282	na	44	indeterminant	LPR8X-A4	Boat Electrofishing	2009-09-10 10:30:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8X-AR630	1	277	na	34	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR108	1	305	na	50	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR109	1	253	na	27	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR110	1	274	na	36	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR111	1	199	na	14	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR112	1	278	na	42	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR113	1	277	na	40	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR114	1	257	na	29	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR115	1	258	na	36	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR116	1	250	na	32.5	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR117	1	274	na	30	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR118	1	261	na	33.5	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR119	1	288	na	46	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR120	1	181	na	10.5	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR121	1	257	na	32	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR122	1	210	na	11	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR123	1	110	na	2	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR124	1	200	na	12.5	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR125	1	186	na	12	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR126	1	157	na	7	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR127	1	178	na	9	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR128	1	139	na	4	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR269	1	204	na	15	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR270	1	163	na	6	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR271	1	120	na	2	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR272	1	150	na	6	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR273	1	140	na	4	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR274	1	167	na	7	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR275	1	261	na	31	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR276	1	142	na	5	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR277	1	137	na	4	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR278	1	284	na	37	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR279	1	268	na	32	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR280	1	286	na	49	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR281	1	173	na	8	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR282	1	262	na	29	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR283	1	218	na	16	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR284	1	250	na	25	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR285	1	263	na	32	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR286	1	308	na	57	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR287	1	192	na	9	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR288	1	249	na	28	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR294	1	209	na	16	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR295	1	213	na	20	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR296	1	282	na	38	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR297	1	308	na	56	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR298	1	117	na	4	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR299	1	206	na	16	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR300	1	243	na	28	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR301	1	254	na	30	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR302	1	132	na	4	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR303	1	144	na	6	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR304	1	275	na	38	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR305	1	204	na	16	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR306	1	257	na	30	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR307	1	221	na	24	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR308	1	256	na	28	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR309	1	233	na	22	indeterminant	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR310	1	118	na	3	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR311	1	266	na	40	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR312	1	251	na	32	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR313	1	201	na	20	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR314	1	249	na	28	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR315	1	221	na	18	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR316	1	204	na	12	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR317	1	282	na	46	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR318	1	317	na	66	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR319	1	312	na	54	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR320	1	142	na	6	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR321	1	164	na	7	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR322	1	144	na	5	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR323	1	88	na	0.5	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR324	1	122	na	3	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR325	1	271	na	44	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR326	1	173	na	8	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR327	1	152	na	7	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR328	1	158	na	6	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR329	1	167	na	7	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR330	1	159	na	6	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR331	1	212	na	20	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR332	1	243	na	26	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR333	1	172	na	5	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR334	1	247	na	28	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR335	1	197	na	10	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR618	1	145	na	5	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR619	1	155	na	6	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR620	1	285	na	37	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR621	1	230	na	20	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR622	1	180	na	12	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR623	1	240	na	25	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR624	1	270	na	36	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR625	1	115	na	3	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Y-AR626	1	140	na	4	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR130	1	239	na	28	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR131	1	260	na	32	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR132	1	281	na	37.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR133	1	232	na	20	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR134	1	284	na	28.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR135	1	265	na	30	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR136	1	152	na	6	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR137	1	268	na	29	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR138	1	170	na	8	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR139	1	215	na	20	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR140	1	278	na	38.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR141	1	200	na	12	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR142	1	254	na	23.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR143	1	242	na	24	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR144	1	180	na	8.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR145	1	145	na	4	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR146	1	184	na	9	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR147	1	160	na	6	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR148	1	185	na	10.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR149	1	214	na	16	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR150	1	147	na	5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR151	1	203	na	15	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR152	1	199	na	11	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR153	1	121	na	2.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR154	1	179	na	9	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR155	1	129	na	4	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR156	1	135	na	4	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR157	1	142	na	4	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR158	1	127	na	3.5	indeterminant	LPR8Z-A1	Backpack Electrofishing	2009-09-08 13:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR189	1	265	na	36	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR190	1	275	na	35	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR191	1	278	na	48	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR192	1	238	na	28	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR193	1	250	na	28	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR194	1	146	na	8	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR195	1	289	na	48	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR196	1	261	na	34	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR197	1	191	na	16	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR198	1	187	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR199	1	227	na	22	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR200	1	223	na	20	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR201	1	281	na	40	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR202	1	278	na	36	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR203	1	250	na	26	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR204	1	293	na	46	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR205	1	194	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR206	1	226	na	22	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR207	1	179	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR208	1	236	na	26	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR209	1	217	na	18	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR210	1	154	na	8	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR211	1	222	na	18	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR212	1	181	na	10	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR213	1	272	na	32	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR214	1	141	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR215	1	130	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR216	1	138	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR217	1	205	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR218	1	206	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR219	1	172	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR220	1	223	na	20	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR221	1	282	na	48	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR222	1	263	na	38	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR223	1	191	na	14	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR224	1	327	na	54	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR225	1	225	na	30	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR226	1	294	na	48	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR227	1	265	na	30	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR228	1	249	na	24	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR229	1	256	na	24	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR230	1	241	na	20	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR231	1	187	na	10	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR232	1	153	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR233	1	184	na	10	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR234	1	156	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR235	1	265	na	32	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR236	1	178	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR237	1	178	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR238	1	184	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR239	1	193	na	12	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR240	1	154	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR241	1	174	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR242	1	137	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR243	1	137	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR244	1	144	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR245	1	151	na	5	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR246	1	143	na	5	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR247	1	147	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR248	1	160	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR249	1	125	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR250	1	146	na	5	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR251	1	140	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR252	1	139	na	5	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR253	1	135	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR254	1	111	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR255	1	115	na	3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR256	1	133	na	3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR257	1	133	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR258	1	124	na	3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR259	1	105	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR260	1	107	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR261	1	105	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR262	1	123	na	3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR263	1	154	na	6	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR264	1	129	na	4	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR265	1	126	na	3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR266	1	104	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR267	1	104	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR268	1	92	na	1	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR346	1	226	na	18	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR347	1	258	na	33	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR348	1	268	na	31	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR349	1	153	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR350	1	189	na	13	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR351	1	117	na	3	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR352	1	136	na	5	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR353	1	245	na	25	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR354	1	180	na	11	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR355	1	207	na	15	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR356	1	196	na	12	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR357	1	168	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR358	1	215	na	18	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR359	1	156	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR360	1	167	na	7	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR361	1	167	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR362	1	269	na	30	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR363	1	278	na	33	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR364	1	267	na	37	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR365	1	142	na	5	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR366	1	98	na	1	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR367	1	208	na	16	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR368	1	223	na	17	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR369	1	179	na	10	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR370	1	191	na	9	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR371	1	202	na	12	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR372	1	165	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR373	1	278	na	36	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR374	1	245	na	26	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR375	1	176	na	9	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR376	1	255	na	26	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR377	1	294	na	47	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR378	1	289	na	53	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR379	1	281	na	36	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR380	1	202	na	13	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR381	1	193	na	14	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR382	1	127	na	15	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR383	1	241	na	28	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR384	1	127	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR385	1	195	na	14	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR386	1	218	na	19	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR387	1	330	na	53	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR388	1	193	na	14	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR389	1	256	na	30	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR390	1	225	na	24	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR391	1	277	na	38	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR392	1	245	na	28	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR393	1	130	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR394	1	220	na	22	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR395	1	262	na	31	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR396	1	166	na	7	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR397	1	234	na	25	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR398	1	272	na	29	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR399	1	167	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR400	1	200	na	11	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR401	1	110	na	2	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR402	1	273	na	34	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR403	1	194	na	10	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR404	1	241	na	23	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR405	1	133	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR406	1	182	na	9	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR407	1	150	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR408	1	194	na	14	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR409	1	96	na	1	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR410	1	113	na	3	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR411	1	221	na	18	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR412	1	152	na	7	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR413	1	138	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR414	1	245	na	24	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR415	1	125	na	3	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR416	1	156	na	7	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR417	1	274	na	33	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR418	1	130	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR419	1	223	na	22	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR420	1	270	na	34	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR421	1	396	na	160	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR422	1	134	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR423	1	241	na	31	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR424	1	181	na	11	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR425	1	244	na	24	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR426	1	233	na	21	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR427	1	145	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR428	1	273	na	35	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR429	1	245	na	30	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR430	1	246	na	25	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR431	1	258	na	29	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR432	1	254	na	25	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR433	1	254	na	28	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR434	1	276	na	36	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR435	1	274	na	47	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR436	1	95	na	2	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR437	1	167	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR438	1	254	na	30	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR439	1	110	na	2	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR440	1	185	na	12	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR441	1	227	na	22	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR442	1	202	na	15	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR443	1	172	na	10	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR444	1	202	na	11	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR445	1	234	na	24	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR446	1	235	na	28	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR447	1	261	na	27	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR448	1	126	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR449	1	100	na	2	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR450	1	147	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR451	1	160	na	9	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR452	1	129	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR453	1	148	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR454	1	117	na	3	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR455	1	264	na	42	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR456	1	158	na	7	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR457	1	170	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR458	1	227	na	22	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR459	1	154	na	6	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR460	1	340	na	78	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR461	1	247	na	32	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR462	1	232	na	29	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR463	1	283	na	36	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR464	1	247	na	27	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR465	1	269	na	34	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR466	1	273	na	33	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR467	1	178	na	9	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR468	1	237	na	20	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR469	1	153	na	5	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR470	1	279	na	38	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR471	1	156	na	5	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR472	1	162	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR473	1	206	na	14	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR474	1	251	na	35	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR475	1	125	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR476	1	122	na	3	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR477	1	131	na	4	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR478	1	174	na	8	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR479	1	245	na	33	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR480	1	233	na	23	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR481	1	224	na	16	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR482	1	224	na	18	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR483	1	293	na	44	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR484	1	210	na	10	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR485	1	262	na	36	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR486	1	161	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR487	1	291	na	38	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR488	1	244	na	23	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR489	1	183	na	10	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR490	1	182	na	10	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR491	1	179	na	7	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR492	1	213	na	15	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR493	1	111	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR494	1	235	na	24	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR495	1	233	na	11	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR496	1	146	na	5	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR497	1	282	na	31	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR498	1	156	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR499	1	151	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR500	1	213	na	14	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR501	1	247	na	21	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR502	1	117	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR503	1	254	na	28	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR504	1	148	na	4	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR505	1	208	na	12	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR506	1	116	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR507	1	120	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR508	1	132	na	3	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR509	1	174	na	8	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR510	1	171	na	7	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR511	1	171	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR512	1	173	na	7	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR513	1	138	na	4	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR514	1	181	na	10	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR515	1	279	na	33	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR516	1	223	na	20	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR517	1	161	na	7	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR518	1	112	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR519	1	171	na	7	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR520	1	111	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR521	1	112	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR522	1	220	na	19	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR523	1	125	na	3	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR524	1	204	na	10	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR525	1	94	na	1	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR526	1	106	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR527	1	153	na	6	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR528	1	132	na	4	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR529	1	175	na	8	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR530	1	259	na	30	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR531	1	165	na	9	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR532	1	225	na	19	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR533	1	125	na	4	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR534	1	246	na	25	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR535	1	273	na	36	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR536	1	281	na	33	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR537	1	324	na	70	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR538	1	269	na	32	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR539	1	240	na	26	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR540	1	278	na	40	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR541	1	267	na	34	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR542	1	232	na	22	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR543	1	244	na	32	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR544	1	274	na	38	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR545	1	187	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR546	1	156	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR547	1	131	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR548	1	292	na	44	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR549	1	263	na	28	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR550	1	220	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR551	1	261	na	36	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR552	1	202	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR553	1	249	na	24	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR554	1	263	na	30	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR555	1	282	na	36	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR556	1	188	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR557	1	252	na	34	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR558	1	126	na	3	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR559	1	181	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR560	1	203	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR561	1	224	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR562	1	154	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR563	1	203	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR564	1	178	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR565	1	182	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR566	1	166	na	8	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR567	1	157	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR568	1	233	na	20	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR569	1	190	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR570	1	212	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR571	1	192	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR572	1	177	na	9	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR573	1	216	na	13	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR574	1	195	na	13	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR575	1	255	na	33	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR576	1	200	na	12	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR577	1	194	na	12	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR578	1	230	na	19	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR579	1	210	na	13	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR580	1	184	na	12	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR581	1	188	na	11	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR582	1	271	na	36	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR583	1	215	na	19	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR584	1	181	na	10	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR585	1	200	na	14	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR586	1	230	na	20	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR587	1	192	na	12	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR588	1	224	na	21	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR589	1	150	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR590	1	227	na	22	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR591	1	275	na	39	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR592	1	265	na	31	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR593	1	260	na	28	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR594	1	126	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR595	1	175	na	9	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR596	1	200	na	13	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR597	1	155	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR598	1	185	na	9	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR599	1	145	na	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR600	1	125	na	3	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR601	1	125	na	3	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR602	1	145	na	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR603	1	150	na	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR604	1	131	na	3	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR605	1	135	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR606	1	159	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR607	1	146	na	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR608	1	131	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR609	1	190	na	11	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR610	1	140	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR611	1	170	na	9	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR612	1	125	na	3	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR613	1	140	na	4	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR614	1	170	na	8	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR615	1	180	na	9	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR616	1	145	na	5	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	American eel	*Anguilla rostrata*	LPR8Z-AR617	1	100	na	2	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM006	1	67	na	1	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM007	1	117	na	6	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM008	1	64	na	1	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM009	1	59	na	1	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM010	1	66	na	1	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM011	1	62	na	1	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM012	1	57	na	0.5	indeterminant	LPR1AA-A5	Minnow Trap	2009-09-04 09:40:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM013	1	57	na	0.5	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM014	1	58	na	0.5	indeterminant	LPR1AA-C5	Minnow Trap	2009-09-04 09:53:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM024	1	67	na	0.5	indeterminant	LPR1AA-B5	Minnow Trap	2009-09-04 09:46:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM066	1	68	na	1.5	indeterminant	LPR1AA-A6	Minnow Trap	2009-09-05 10:05:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM067	1	60	na	1	indeterminant	LPR1AA-C6	Minnow Trap	2009-09-05 10:02:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM069	1	56	na	0.5	indeterminant	LPR1AA-B6	Minnow Trap	2009-09-05 10:03:00	Both eyes missing
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM070	1	61	na	1	indeterminant	LPR1AA-B6	Minnow Trap	2009-09-05 10:03:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1AA-MM071	1	65	na	1	indeterminant	LPR1AA-B6	Minnow Trap	2009-09-05 10:03:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1BB-MM015	1	81	na	2	indeterminant	LPR1BB-A5	Minnow Trap	2009-09-04 10:25:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1BB-MM072	1	78	na	2.5	indeterminant	LPR1BB-A6	Minnow Trap	2009-09-05 10:11:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1BB-MM073	1	65	na	1	indeterminant	LPR1BB-A6	Minnow Trap	2009-09-05 10:11:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1BB-MM074	1	67	na	1.5	indeterminant	LPR1BB-B6	Minnow Trap	2009-09-05 10:09:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1BB-MM075	1	70	na	1	indeterminant	LPR1BB-B6	Minnow Trap	2009-09-05 10:09:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM017	1	74	na	2	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM018	1	61	na	1	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM019	1	62	na	1	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM020	1	74	na	2	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM021	1	85	na	3	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM022	1	68	na	1	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM023	1	73	na	2	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM025	1	88	na	2	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM026	1	73	na	2	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM027	1	65	na	1	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM028	1	66	na	1	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1D-MM029	1	82	na	3	indeterminant	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM016	1	84	na	2	indeterminant	LPR1Q-A4	Eel Trap	2009-09-04 10:56:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM030	1	78	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM031	1	106	na	5	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM032	1	87	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM033	1	84	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM034	1	83	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM035	1	87	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM036	1	66	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM037	1	84	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM038	1	86	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM039	1	82	na	3	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM040	1	77	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM041	1	74	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM042	1	72	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM043	1	76	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM044	1	72	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM045	1	81	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM046	1	69	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM047	1	64	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM048	1	68	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM049	1	75	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM050	1	62	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM051	1	61	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM052	1	77	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM053	1	56	na	0.5	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM054	1	74	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM055	1	80	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM056	1	76	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM057	1	76	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM058	1	67	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM060	1	76	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM061	1	70	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM062	1	70	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM063	1	69	na	1	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM064	1	82	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM065	1	73	na	2	indeterminant	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR1Q-MM068	1	76	na	2	indeterminant	LPR1Q-B5	Eel Trap	2009-09-05 10:48:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM076	1	98	na	5	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM077	1	90	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM078	1	82	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM079	1	93	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM080	1	99	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM081	1	79	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM082	1	79	na	1	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM083	1	95	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM084	1	69	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM085	1	72	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM086	1	75	na	1	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM087	1	77	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM088	1	80	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM089	1	74	na	1	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM090	1	94	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM091	1	75	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM092	1	80	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM093	1	70	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM094	1	80	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM095	1	72	na	1	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM096	1	85	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM097	1	78	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM098	1	71	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM099	1	70	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM100	1	95	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM101	1	96	na	5	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM102	1	80	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM103	1	90	na	4	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM104	1	85	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM105	1	76	na	3	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM106	1	73	na	1.5	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic silverside	*Menidia menidia*	LPR2B-MM107	1	75	na	2	indeterminant	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Atlantic tomcod	*Microgadus tomcod*	LPR3O-MT001	1	126	na	18.5	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD004	1	57	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD005	1	52	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD006	1	60	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD007	1	53	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD008	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD009	1	56	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD010	1	81	na	5	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD011	1	48	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD012	1	47	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD013	1	48	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD014	1	41	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD015	1	55	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD016	1	44	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD017	1	56	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD018	1	66	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD019	1	60	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD020	1	59	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD021	1	61	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD022	1	56	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD023	1	59	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD024	1	57	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD025	1	55	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD026	1	50	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD027	1	48	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD028	1	57	na	2	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD029	1	53	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD030	1	54	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD031	1	53	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD032	1	55	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD033	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD034	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD035	1	33	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD036	1	45	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD037	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD038	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD039	1	52	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5Q-FD040	1	49	na	1	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5S-FD001	1	54	na	1	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5S-FD002	1	46	na	1	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Banded killifish	*Fundulus diaphanus*	LPR5S-FD003	1	43	na	1	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1H-CS346	1	150	na	224	male	LPR1H-A1	Trotline	2009-09-01 13:43:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS314	1	139	na	118	female	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Soft shell, recently molted
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS315	1	148	na	228	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS316	1	138	na	200	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS317	1	158	na	220	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Missing left claw, right claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS318	1	144	na	222	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS319	1	150	na	246	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS320	1	148	na	216	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS321	1	118	na	106	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS322	1	164	na	246	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS323	1	136	na	188	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS324	1	156	na	212	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS325	1	131	na	170	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS326	1	131	na	180	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS327	1	139	na	196	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS328	1	89	na	54	female	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS329	1	109	na	84	female	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS330	1	115	na	118	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	Missing right leg and right claw, included

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS331	1	109	na	82	female	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS409	1	157	na	202	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS410	1	143	na	186	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS411	1	141	na	182	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS412	1	144	na	136	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS413	1	133	na	218	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Right spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS414	1	138	na	156	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Right spine and leg damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS415	1	150	na	114	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Recently molted, soft shell; right claw missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS416	1	93	na	50	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS417	1	139	na	156	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Missing left leg, left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS418	1	134	na	182	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS419	1	134	na	172	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS420	1	144	na	154	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Broken left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS421	1	132	na	142	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS422	1	116	na	114	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS423	1	134	na	112	female	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS424	1	153	na	224	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	Missing left swimmerette and leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS425	1	161	na	214	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS426	1	134	na	164	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS427	1	148	na	222	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS428	1	153	na	164	male	LPR1I-A2	Gillnet	2009-09-02 15:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS564	1	136	na	176	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Missing right leg; damage to right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS565	1	130	na	182	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS566	1	140	na	140	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Missing left claw and swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS567	1	135	na	140	female	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Soft shell; missing left leg and swimmerette; damage to shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS568	1	146	na	174	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Missing right claw and leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS569	1	156	na	268	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Missing left and right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS570	1	131	na	158	male	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS571	1	124	na	104	female	LPR1I-A3	Gillnet	2009-09-03 13:52:00	Soft-shell; missing both claws and legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS649	1	90	na	51	female	LPR1I-A4	Gillnet	2009-09-04 12:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS650	1	142	na	196	male	LPR1I-A4	Gillnet	2009-09-04 12:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS651	1	149	na	204	male	LPR1I-A4	Gillnet	2009-09-04 12:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS652	1	159	na	180	female	LPR1I-A4	Gillnet	2009-09-04 12:22:00	Soft shell; damaged right spine, right claw; missing right legs, left swimmerette

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS702	1	136	na	174	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS703	1	141	na	196	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS704	1	114	na	70	female	LPR1I-A5	Gillnet	2009-09-05 12:13:00	Missing right leg, left swimmerette, right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS705	1	140	na	166	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS706	1	155	na	190	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS707	1	141	na	212	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS708	1	150	na	232	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS709	1	172	na	270	male	LPR1I-A5	Gillnet	2009-09-05 12:13:00	Missing right claws and 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS710	1	113	na	80	female	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1I-CS711	1	92	na	54	female	LPR1I-A5	Gillnet	2009-09-05 12:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS332	1	146	na	210	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS333	1	139	na	198	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS334	1	116	na	102	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS335	1	138	na	188	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS336	1	134	na	154	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS337	1	135	na	154	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS338	1	157	na	270	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS339	1	143	na	206	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS340	1	147	na	192	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Left swimmerette included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS341	1	170	na	318	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS342	1	169	na	332	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Right spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS343	1	160	na	286	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Left spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS344	1	149	na	234	male	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS345	1	142	na	128	female	LPR1J-A1	Gillnet	2009-09-01 13:10:00	Soft shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS439	1	127	na	100	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Recently molted, soft shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS440	1	144	na	224	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS441	1	156	na	260	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS442	1	166	na	206	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS443	1	125	na	160	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS444	1	148	na	190	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS445	1	149	na	184	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS446	1	148	na	214	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS447	1	112	na	84	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS448	1	130	na	152	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS449	1	146	na	220	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS450	1	142	na	202	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS451	1	127	na	154	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS452	1	103	na	70	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Regrowing right claw; missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS453	1	111	na	79	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing left claw and 2 right legs

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS454	1	106	na	86	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS455	1	147	na	214	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS456	1	142	na	190	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS457	1	161	na	226	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS458	1	94	na	50	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Both claws missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS459	1	176	na	312	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing portion of left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS460	1	164	na	282	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS461	1	139	na	190	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS462	1	142	na	178	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS463	1	161	na	296	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS464	1	155	na	236	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS465	1	154	na	248	male	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS466	1	107	na	86	female	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS577	1	135	na	188	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS578	1	132	na	168	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS579	1	135	na	168	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS580	1	125	na	104	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS581	1	124	na	112	female	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Soft shell; missing left claw; damaged leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS582	1	146	na	198	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS583	1	136	na	194	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Damaged right spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS584	1	148	na	104	female	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Damaged abdominal apron; missing left leg, right claw, and 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS585	1	112	na	74	female	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS586	1	154	na	232	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS587	1	83	na	16	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS588	1	151	na	234	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS589	1	145	na	200	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS590	1	131	na	166	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS591	1	174	na	290	male	LPR1J-A3	Gillnet	2009-09-03 14:23:00	Missing right leg, left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS592	1	115	na	92	female	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS593	1	106	na	70	female	LPR1J-A3	Gillnet	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS663	1	163	na	304	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Damaged left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS664	1	178	na	344	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Missing 1 right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS665	1	146	na	242	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Right claw damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS666	1	137	na	178	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS667	1	162	na	312	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS668	1	159	na	140	female	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Missing right claw, swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS669	1	151	na	248	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Missing right leg; left spine damaged

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS670	1	131	na	114	female	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS671	1	151	na	228	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS672	1	127	na	138	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Damaged left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS673	1	138	na	168	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS674	1	153	na	242	male	LPR1J-A4	Gillnet	2009-09-04 12:51:00	Left claw damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS690	1	165	na	258	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Missing right claw and leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS691	1	142	na	192	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS692	1	114	na	102	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS693	1	157	na	272	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS694	1	150	na	174	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS695	1	150	na	220	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Damaged left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS696	1	168	na	310	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS697	1	151	na	218	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Missing left leg; damage to right swimmerettes
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS698	1	138	na	182	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS699	1	116	na	96	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS700	1	115	na	98	female	LPR1J-A5	Gillnet	2009-09-05 11:34:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1J-CS701	1	127	na	124	male	LPR1J-A5	Gillnet	2009-09-05 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS347	1	132	na	170	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS348	1	142	na	186	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Right spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS349	1	152	na	148	female	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left claw, right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS350	1	132	na	136	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS351	1	113	na	88	female	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS352	1	131	na	138	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS353	1	118	na	140	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS354	1	115	na	114	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS355	1	157	na	288	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS356	1	147	na	138	female	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left claw; recently molted
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS357	1	98	na	58	female	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS358	1	115	na	102	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS359	1	117	na	142	male	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Right spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS360	1	141	na	106	female	LPR1K-A1	Gillnet	2009-09-01 14:04:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS467	1	154	na	218	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS468	1	127	na	88	female	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Soft shell; both claws and left swimmerette missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS469	1	136	na	178	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS470	1	107	na	70	female	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS471	1	151	na	196	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS472	1	131	na	164	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS473	1	155	na	236	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing left claw

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS474	1	159	na	256	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Cracked shell; 1 eye missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS475	1	125	na	96	female	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Soft shell; left spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS476	1	148	na	254	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS477	1	142	na	190	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing left claws and left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS478	1	137	na	190	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS479	1	146	na	170	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS480	1	116	na	118	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS481	1	169	na	280	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS482	1	149	na	214	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing left claw; left spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS483	1	134	na	150	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS484	1	142	na	178	male	LPR1K-A2	Gillnet	2009-09-02 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS501	1	147	na	226	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS502	1	149	na	202	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS503	1	160	na	278	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS504	1	102	na	68	female	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS505	1	145	na	198	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS506	1	150	na	240	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS507	1	151	na	232	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS508	1	136	na	124	female	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS509	1	156	na	262	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS510	1	156	na	214	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS511	1	131	na	150	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS512	1	143	na	170	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS513	1	152	na	200	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS514	1	110	na	84	female	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS515	1	139	na	192	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS516	1	158	na	264	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS517	1	162	na	272	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS518	1	144	na	168	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS519	1	112	na	94	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS520	1	152	na	192	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS521	1	115	na	110	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS522	1	119	na	100	female	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Both swimmerettes damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS523	1	139	na	194	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS524	1	118	na	128	male	LPR1K-A3	Gillnet	2009-09-03 11:10:00	Shell damaged; missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS607	1	165	na	288	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS608	1	115	na	92	female	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Left swimmerette damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS609	1	142	na	210	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS610	1	172	na	282	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS611	1	139	na	180	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS612	1	168	na	264	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS613	1	163	na	256	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Missing left claw, left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS614	1	137	na	110	female	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Soft shell; missing right claw and swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS615	1	108	na	74	female	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS616	1	119	na	112	female	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS617	1	171	na	266	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS618	1	106	na	104	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS619	1	118	na	98	female	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS620	1	136	na	186	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS621	1	129	na	114	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	Missing left leg, portion of left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS622	1	47	na	6	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS623	1	161	na	226	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS624	1	158	na	256	male	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS676	1	174	na	324	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS677	1	126	na	150	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS678	1	199	na	344	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS679	1	170	na	350	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS680	1	133	na	168	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS681	1	161	na	260	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS682	1	122	na	86	female	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing right claw and 2 right legs; 2 left legs regrowing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS683	1	120	na	106	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left claw and 3 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS684	1	159	na	224	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left claw; left swimmerette damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS685	1	115	na	94	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS686	1	125	na	130	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Right leg included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS687	1	135	na	166	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS688	1	143	na	122	female	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing right claw; left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1K-CS689	1	124	na	128	male	LPR1K-A5	Gillnet	2009-09-05 10:55:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS274	1	71	na	30	female	LPR1L-A1	Crab Trap	2009-09-01 10:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS275	1	92	na	56	male	LPR1L-B1	Crab Trap	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS433	1	114	na	116	male	LPR1L-A2	Crab Trap	2009-09-02 12:18:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS485	1	153	na	254	male	LPR1L-A2	Crab Trap	2009-09-02 12:18:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS491	1	154	na	168	female	LPR1L-B2	Crab Trap	2009-09-02 12:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS498	1	112	na	100	male	LPR1L-B2	Crab Trap	2009-09-02 12:08:00	Damaged left claw, missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS557	1	137	na	194	male	LPR1L-B3	Crab Trap	2009-09-03 11:35:00	Damaged right spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS559	1	169	na	304	male	LPR1L-A3	Crab Trap	2009-09-03 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS562	1	97	na	60	female	LPR1L-A3	Crab Trap	2009-09-03 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS563	1	66	na	70	male	LPR1L-B3	Crab Trap	2009-09-03 11:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS572	1	158	na	236	male	LPR1L-A3	Crab Trap	2009-09-03 11:27:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS573	1	141	na	192	male	LPR1L-A3	Crab Trap	2009-09-03 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS642	1	99	na	60	male	LPR1L-B4	Crab Trap	2009-09-04 09:56:00	Recently molted
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS645	1	89	na	45	female	LPR1L-A4	Crab Trap	2009-09-04 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS646	1	75	na	15	male	LPR1L-B4	Crab Trap	2009-09-04 09:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS648	1	91	na	52	female	LPR1L-A4	Crab Trap	2009-09-04 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS728	1	83	na	36	female	LPR1L-B5	Crab Trap	2009-09-05 10:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS736	1	160	na	186	male	LPR1L-A5	Crab Trap	2009-09-05 10:35:00	Missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS741	1	160	na	234	male	LPR1L-A5	Crab Trap	2009-09-05 10:35:00	Missing 1 left and 1 right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS742	1	170	na	346	male	LPR1L-A5	Crab Trap	2009-09-05 10:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1L-CS753	1	54	na	14	male	LPR1L-B5	Crab Trap	2009-09-05 10:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS486	1	148	na	220	male	LPR1M-B2	Crab Trap	2009-09-02 12:53:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS487	1	114	na	106	male	LPR1M-B2	Crab Trap	2009-09-02 12:53:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS488	1	141	na	168	male	LPR1M-B2	Crab Trap	2009-09-02 12:53:00	Left leg included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS492	1	115	na	38	female	LPR1M-C2	Crab Trap	2009-09-02 12:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS493	1	141	na	188	male	LPR1M-C2	Crab Trap	2009-09-02 12:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS494	1	144	na	124	female	LPR1M-C2	Crab Trap	2009-09-02 12:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS543	1	113	na	70	female	LPR1M-A3	Crab Trap	2009-09-03 12:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS545	1	117	na	84	male	LPR1M-B3	Crab Trap	2009-09-03 12:03:00	Recently molted
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS555	1	145	na	168	male	LPR1M-B3	Crab Trap	2009-09-03 12:03:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS556	1	140	na	106	female	LPR1M-A3	Crab Trap	2009-09-03 12:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS558	1	140	na	184	male	LPR1M-A3	Crab Trap	2009-09-03 12:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS560	1	169	na	282	male	LPR1M-C3	Crab Trap	2009-09-03 12:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS561	1	154	na	158	female	LPR1M-A3	Crab Trap	2009-09-03 12:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS574	1	92	na	58	female	LPR1M-C3	Crab Trap	2009-09-03 12:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS575	1	135	na	184	male	LPR1M-A3	Crab Trap	2009-09-03 12:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS576	1	83	na	20	male	LPR1M-B3	Crab Trap	2009-09-03 12:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS632	1	159	na	272	male	LPR1M-A4	Crab Trap	2009-09-04 10:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS643	1	163	na	290	male	LPR1M-C4	Crab Trap	2009-09-04 10:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS644	1	98	na	63	female	LPR1M-A4	Crab Trap	2009-09-04 10:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS654	1	78	na	34	female	LPR1M-B4	Crab Trap	2009-09-04 10:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS656	1	72	na	26	male	LPR1M-B4	Crab Trap	2009-09-04 10:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS732	1	139	na	192	male	LPR1M-C5	Crab Trap	2009-09-05 10:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS733	1	69	na	24	female	LPR1M-A5	Crab Trap	2009-09-05 10:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS734	1	139	na	112	female	LPR1M-A5	Crab Trap	2009-09-05 10:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS735	1	89	na	44	female	LPR1M-C5	Crab Trap	2009-09-05 10:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1M-CS740	1	158	na	246	male	LPR1M-C5	Crab Trap	2009-09-05 10:13:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS362	1	93	na	58	female	LPR1N-A1	Crab Trap	2009-09-01 12:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS378	1	143	na	188	male	LPR1N-A1	Crab Trap	2009-09-01 12:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS379	1	133	na	180	male	LPR1N-B1	Crab Trap	2009-09-01 12:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS432	1	129	na	162	male	LPR1N-C2	Crab Trap	2009-09-02 13:18:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS437	1	110	na	76	female	LPR1N-C2	Crab Trap	2009-09-02 13:18:00	Missing left leg; regrowing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS489	1	157	na	254	male	LPR1N-A2	Crab Trap	2009-09-02 13:26:00	Missing 2 right legs, right swimmerette damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS490	1	141	na	170	male	LPR1N-A2	Crab Trap	2009-09-02 13:26:00	Left claw missing

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS495	1	82	na	46	male	LPR1N-B2	Crab Trap	2009-09-02 13:31:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS496	1	111	na	88	male	LPR1N-B2	Crab Trap	2009-09-02 13:31:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS544	1	136	na	150	male	LPR1N-B3	Crab Trap	2009-09-03 12:42:00	Missing left claw, 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS631	1	139	na	206	male	LPR1N-B4	Crab Trap	2009-09-04 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS647	1	88	na	54	male	LPR1N-B4	Crab Trap	2009-09-04 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS653	1	83	na	46	male	LPR1N-B4	Crab Trap	2009-09-04 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS655	1	113	na	120	male	LPR1N-B4	Crab Trap	2009-09-04 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1N-CS731	1	153	na	214	male	LPR1N-B5	Crab Trap	2009-09-05 10:45:00	Missing 1 left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1O-CS675	1	46	na	8	male	LPR1O-B4	Eel Trap	2009-09-04 10:08:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR1R-CS376	1	50	na	12	female	LPR1R-A1	Dip Net	2009-09-01 15:25:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2B-CS594	1	126	na	134	male	LPR2B-A3	Minnow Trap	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2B-CS600	1	173	na	286	male	LPR2B-A3	Minnow Trap	2009-09-03 14:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS265	1	160	na	228	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS266	1	149	na	200	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS267	1	137	na	182	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS268	1	136	na	210	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS269	1	135	na	188	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS270	1	122	na	270	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS271	1	135	na	178	male	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS272	1	125	na	106	female	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS273	1	118	na	100	female	LPR2I-A1	Gillnet	2009-09-01 10:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS381	1	116	na	92	female	LPR2I-A2	Gillnet	2009-09-02 12:26:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS382	1	119	na	130	male	LPR2I-A2	Gillnet	2009-09-02 12:26:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS383	1	159	na	164	female	LPR2I-A2	Gillnet	2009-09-02 12:26:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS384	1	137	na	146	male	LPR2I-A2	Gillnet	2009-09-02 12:26:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS525	1	143	na	208	male	LPR2I-A3	Gillnet	2009-09-03 11:50:00	Damaged right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS526	1	135	na	198	male	LPR2I-A3	Gillnet	2009-09-03 11:50:00	Missing both swimmerettes
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS527	1	134	na	160	male	LPR2I-A3	Gillnet	2009-09-03 11:50:00	Damaged left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS625	1	123	na	148	male	LPR2I-A4	Gillnet	2009-09-04 10:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS626	1	104	na	104	female	LPR2I-A4	Gillnet	2009-09-04 10:22:00	Regrowing right claw; missing right leg; molting
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS627	1	130	na	164	male	LPR2I-A4	Gillnet	2009-09-04 10:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS628	1	151	na	136	female	LPR2I-A4	Gillnet	2009-09-04 10:22:00	Missing right leg and 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS743	1	135	na	182	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS744	1	137	na	182	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	Missing right leg and swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS745	1	133	na	170	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	Damaged left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS746	1	163	na	134	female	LPR2I-A5	Gillnet	2009-09-05 14:06:00	Soft shell; missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS747	1	143	na	132	female	LPR2I-A5	Gillnet	2009-09-05 14:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS748	1	148	na	200	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS749	1	149	na	182	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS750	1	111	na	84	female	LPR2I-A5	Gillnet	2009-09-05 14:06:00	Missing both claws, 1 left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2I-CS751	1	133	na	172	male	LPR2I-A5	Gillnet	2009-09-05 14:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS276	1	150	na	226	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS277	1	154	na	194	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS278	1	137	na	192	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS279	1	103	na	88	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS280	1	126	na	136	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	Missing right swimmerette; parasites
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS281	1	187	na	304	male	LPR2J-A1	Gillnet	2009-09-01 11:03:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS385	1	141	na	218	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS386	1	137	na	176	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS387	1	145	na	184	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS388	1	149	na	116	female	LPR2J-A2	Gillnet	2009-09-02 13:37:00	Recently molted; missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS389	1	127	na	124	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS390	1	143	na	190	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	Missing 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS391	1	104	na	88	male	LPR2J-A2	Gillnet	2009-09-02 13:37:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS528	1	158	na	152	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS529	1	144	na	270	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Damaged left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS530	1	146	na	196	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS531	1	151	na	224	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS532	1	133	na	146	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS533	1	126	na	138	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS534	1	92	na	54	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS535	1	99	na	60	female	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS536	1	106	na	62	female	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Regrowing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS537	1	85	na	34	female	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS538	1	124	na	140	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Damaged right spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS539	1	143	na	184	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Damaged left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS540	1	152	na	132	female	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Soft body
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS541	1	162	na	232	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	Missing right claw, 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS542	1	115	na	112	male	LPR2J-A3	Gillnet	2009-09-03 12:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS629	1	143	na	194	male	LPR2J-A4	Gillnet	2009-09-04 11:11:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS630	1	130	na	140	male	LPR2J-A4	Gillnet	2009-09-04 11:11:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS722	1	151	na	212	male	LPR2J-A5	Gillnet	2009-09-05 13:23:00	Damaged right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS723	1	129	na	114	male	LPR2J-A5	Gillnet	2009-09-05 13:23:00	Missing both swimmerettes
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS724	1	138	na	184	male	LPR2J-A5	Gillnet	2009-09-05 13:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2J-CS725	1	147	na	200	male	LPR2J-A5	Gillnet	2009-09-05 13:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS282	1	147	na	202	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS283	1	179	na	348	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS284	1	164	na	276	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS285	1	100	na	74	female	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS286	1	148	na	188	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS287	1	142	na	200	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS288	1	124	na	152	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing left claw and left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS289	1	149	na	224	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS290	1	152	na	244	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS291	1	85	na	48	female	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS292	1	100	na	58	female	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Right swimmerette detached, included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS293	1	152	na	194	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS294	1	155	na	208	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS295	1	148	na	226	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS296	1	121	na	134	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS297	1	157	na	256	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS298	1	156	na	250	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS299	1	120	na	136	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing portion of left swimmerette and left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS300	1	120	na	92	female	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS301	1	147	na	242	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS302	1	139	na	224	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS303	1	147	na	200	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS304	1	125	na	140	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS305	1	158	na	290	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS306	1	148	na	154	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS307	1	147	na	210	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS308	1	132	na	168	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS309	1	123	na	122	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS310	1	155	na	210	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	Damaged right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS311	1	151	na	278	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS312	1	98	na	66	female	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS313	1	156	na	232	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS392	1	152	na	154	female	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS393	1	177	na	294	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS394	1	147	na	220	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS395	1	148	na	212	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS396	1	133	na	152	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing left claw, right claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS397	1	144	na	214	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS398	1	116	na	86	female	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS399	1	143	na	198	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing portion of left claw and tip of right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS400	1	136	na	176	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing left leg

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS401	1	151	na	254	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS402	1	135	na	178	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing portion of abdominal apron, left claw and 2 left legs; damaged left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS403	1	148	na	222	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS404	1	152	na	266	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS405	1	130	na	152	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS406	1	150	na	200	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS407	1	139	na	178	male	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS408	1	119	na	96	female	LPR2K-A2	Gillnet	2009-09-02 14:13:00	Missing 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS546	1	144	na	190	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS547	1	142	na	202	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS548	1	150	na	230	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS549	1	153	na	232	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS550	1	164	na	252	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS551	1	153	na	234	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS552	1	134	na	158	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS553	1	145	na	172	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS554	1	109	na	88	female	LPR2K-A3	Gillnet	2009-09-03 13:13:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS606	1	142	na	204	male	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS633	1	147	na	172	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS634	1	129	na	148	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS635	1	160	na	236	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS636	1	148	na	248	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS637	1	115	na	112	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS638	1	130	na	132	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS639	1	123	na	134	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS640	1	121	na	116	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS641	1	134	na	174	male	LPR2K-A4	Gillnet	2009-09-04 11:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS712	1	154	na	226	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS713	1	96	na	60	female	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS714	1	128	na	132	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	Missing left claw, leg, and swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS715	1	136	na	168	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS716	1	135	na	156	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS717	1	145	na	224	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS718	1	162	na	300	male	LPR2K-A5	Gillnet	2009-09-05 12:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2K-CS719	1	100	na	64	female	LPR2K-A5	Gillnet	2009-09-05 12:46:00	Missing left claw and swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS364	1	131	na	148	male	LPR2L-A1	Crab Trap	2009-09-01 12:09:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS375	1	81	na	42	male	LPR2L-B1	Crab Trap	2009-09-01 12:12:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS380	1	135	na	200	male	LPR2L-A1	Crab Trap	2009-09-01 12:09:00	Left spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS434	1	108	na	96	male	LPR2L-A2	Crab Trap	2009-09-02 13:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS435	1	105	na	74	male	LPR2L-A2	Crab Trap	2009-09-02 13:51:00	Regrowing right leg

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS436	1	132	na	123	male	LPR2L-A2	Crab Trap	2009-09-02 13:51:00	Missing all right legs and right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS497	1	144	na	152	male	LPR2L-C2	Crab Trap	2009-09-02 13:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS499	1	119	na	104	female	LPR2L-C2	Crab Trap	2009-09-02 13:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS596	1	163	na	252	male	LPR2L-C3	Crab Trap	2009-09-03 14:39:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS603	1	81	na	35	female	LPR2L-C3	Crab Trap	2009-09-03 14:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS661	1	160	na	244	male	LPR2L-A4	Crab Trap	2009-09-04 11:52:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS721	1	125	na	138	male	LPR2L-A5	Crab Trap	2009-09-05 11:18:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS726	1	151	na	248	male	LPR2L-C5	Crab Trap	2009-09-05 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2L-CS727	1	117	na	104	female	LPR2L-C5	Crab Trap	2009-09-05 11:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS365	1	118	na	110	male	LPR2M-B1	Crab Trap	2009-09-01 11:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS366	1	149	na	162	female	LPR2M-B1	Crab Trap	2009-09-01 11:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS429	1	83	na	42	male	LPR2M-C2	Crab Trap	2009-09-02 14:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS430	1	140	na	114	female	LPR2M-A2	Crab Trap	2009-09-02 14:24:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS438	1	118	na	116	male	LPR2M-B2	Crab Trap	2009-09-02 14:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS500	1	108	na	78	male	LPR2M-B2	Crab Trap	2009-09-02 14:27:00	Missing right and left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS595	1	126	na	86	female	LPR2M-B3	Crab Trap	2009-09-03 14:05:00	Soft shell; missing right claw; left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS597	1	134	na	158	male	LPR2M-C3	Crab Trap	2009-09-03 14:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS598	1	154	na	150	female	LPR2M-A3	Crab Trap	2009-09-03 14:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS599	1	131	na	192	male	LPR2M-B3	Crab Trap	2009-09-03 14:05:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS601	1	156	na	158	female	LPR2M-B3	Crab Trap	2009-09-03 14:05:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS602	1	100	na	32	female	LPR2M-B3	Crab Trap	2009-09-03 14:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS657	1	142	na	158	male	LPR2M-B4	Crab Trap	2009-09-04 12:10:00	Soft shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS660	1	138	na	198	male	LPR2M-C4	Crab Trap	2009-09-04 12:15:00	Missing 2 right legs, 1 left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS662	1	128	na	212	male	LPR2M-B4	Crab Trap	2009-09-04 12:10:00	Missing right spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS720	1	124	na	122	male	LPR2M-C5	Crab Trap	2009-09-05 11:45:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2M-CS730	1	100	na	66	female	LPR2M-C5	Crab Trap	2009-09-05 11:45:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS361	1	93	na	48	female	LPR2N-C1	Crab Trap	2009-09-01 11:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS363	1	124	na	132	male	LPR2N-C1	Crab Trap	2009-09-01 11:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS367	1	136	na	154	male	LPR2N-C1	Crab Trap	2009-09-01 11:16:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS368	1	129	na	140	male	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS369	1	122	na	122	male	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS370	1	147	na	156	female	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	Left spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS371	1	144	na	198	male	LPR2N-C1	Crab Trap	2009-09-01 11:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS372	1	135	na	160	male	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	Left spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS373	1	138	na	162	male	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	Missing right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS374	1	133	na	156	male	LPR2N-B1	Crab Trap	2009-09-01 11:12:00	Right spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS377	1	147	na	196	male	LPR2N-A1	Crab Trap	2009-09-01 11:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS431	1	138	na	160	male	LPR2N-B2	Crab Trap	2009-09-02 14:57:00	Missing left claw, left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS604	1	148	na	216	male	LPR2N-C3	Crab Trap	2009-09-03 13:43:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS605	1	100	na	78	male	LPR2N-B3	Crab Trap	2009-09-03 13:26:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS658	1	145	na	198	male	LPR2N-B4	Crab Trap	2009-09-04 12:41:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS659	1	137	na	168	male	LPR2N-B4	Crab Trap	2009-09-04 12:41:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS729	1	118	na	112	male	LPR2N-B5	Crab Trap	2009-09-05 12:14:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS737	1	126	na	130	male	LPR2N-C5	Crab Trap	2009-09-05 12:09:00	Regrowing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS738	1	127	na	166	male	LPR2N-C5	Crab Trap	2009-09-05 12:09:00	Missing right leg; right spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR2N-CS739	1	119	na	86	female	LPR2N-C5	Crab Trap	2009-09-05 12:09:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS012	1	95	na	48	female	LPR3F-A1	Crab Trap	2009-08-11 10:54:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS013	1	109	na	58	male	LPR3F-A1	Crab Trap	2009-08-11 10:54:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS014	1	90	na	48	male	LPR3F-B1	Crab Trap	2009-08-11 10:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS028	1	125	na	86	female	LPR3F-A2	Crab Trap	2009-08-12 09:31:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS056	1	97	na	48	male	LPR3F-B3	Crab Trap	2009-08-13 11:20:00	Recently molted soft-shell; missing third left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS057	1	71	na	16	male	LPR3F-B3	Crab Trap	2009-08-13 11:20:00	Recently molted soft-shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS089	1	103	na	70	male	LPR3F-B5	Crab Trap	2009-08-15 07:12:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3F-CS118	1	80	na	40	male	LPR3F-A5	Crab Trap	2009-08-15 09:40:00	Parasite attached; regrowth of left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS030	1	76	na	30	female	LPR3G-A2	Crab Trap	2009-08-12 09:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS031	1	60	na	12	male	LPR3G-A2	Crab Trap	2009-08-12 09:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS032	1	105	na	58	female	LPR3G-B2	Crab Trap	2009-08-12 09:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS055	1	111	na	82	male	LPR3G-C3	Crab Trap	2009-08-13 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS073	1	70	na	30	male	LPR3G-C4	Crab Trap	2009-08-14 08:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3G-CS121	1	115	na	104	male	LPR3G-C5	Crab Trap	2009-08-15 09:39:00	Right spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS015	1	117	na	82	indeterminant	LPR3H-A1	Crab Trap	2009-08-11 13:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS029	1	100	na	60	male	LPR3H-A2	Crab Trap	2009-08-12 10:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS058	1	62	na	20	male	LPR3H-A3	Crab Trap	2009-08-13 11:42:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS059	1	121	na	108	male	LPR3H-A3	Crab Trap	2009-08-13 11:42:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS060	1	52	na	10	male	LPR3H-A3	Crab Trap	2009-08-13 11:42:00	Detached right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS061	1	114	na	100	male	LPR3H-C3	Crab Trap	2009-08-13 11:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS077	1	132	na	134	male	LPR3H-B4	Crab Trap	2009-08-14 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS119	1	79	na	34	female	LPR3H-C5	Crab Trap	2009-08-15 09:15:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3H-CS120	1	132	na	140	male	LPR3H-B5	Crab Trap	2009-08-15 09:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3J-CS054	1	41	na	6	male	LPR3J-C3	Eel Trap	2009-08-13 10:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS006	1	106	na	78	female	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS007	1	130	na	110	male	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS008	1	128	na	112	female	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS009	1	102	na	56	female	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS010	1	115	na	80	male	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS011	1	106	na	78	male	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS016	1	101	na	58	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS017	1	117	na	80	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS018	1	116	na	94	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS019	1	137	na	116	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS020	1	117	na	84	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS021	1	113	na	80	female	LPR3M-A2	Gillnet	2009-08-12 09:24:00	Immature
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS022	1	115	na	70	female	LPR3M-A2	Gillnet	2009-08-12 09:24:00	Immature

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS023	1	117	na	72	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS024	1	121	na	82	female	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS025	1	115	na	106	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS026	1	121	na	96	male	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS027	1	116	na	80	female	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS041	1	107	na	74	male	LPR3M-A3	Gillnet	2009-08-13 09:40:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS042	1	113	na	86	male	LPR3M-A3	Gillnet	2009-08-13 09:40:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS043	1	130	na	92	female	LPR3M-A3	Gillnet	2009-08-13 09:40:00	Missing swimmerettes and legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS079	1	133	na	132	male	LPR3M-A4	Gillnet	2009-08-14 07:26:00	Missing part of swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS110	1	114	na	84	male	LPR3M-A5	Gillnet	2009-08-15 08:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS114	1	144	na	148	male	LPR3M-A5	Gillnet	2009-08-15 08:50:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS116	1	119	na	78	male	LPR3M-A5	Gillnet	2009-08-15 08:50:00	Missing both claws and 1 right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3M-CS117	1	112	na	70	female	LPR3M-A5	Gillnet	2009-08-15 08:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS004	1	109	na	62	female	LPR3N-A1	Gillnet	2009-08-11 09:25:00	Missing left rear leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS005	1	64	na	16	male	LPR3N-A1	Gillnet	2009-08-11 09:25:00	Right claw detached
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS033	1	120	na	84	male	LPR3N-A2	Gillnet	2009-08-12 10:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS044	1	118	na	90	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS045	1	120	na	108	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS046	1	127	na	112	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS047	1	100	na	58	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	Missing left claw and 2nd left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS048	1	119	na	86	female	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS049	1	127	na	94	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	Missing left claw, legs and swimmeretts
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS050	1	110	na	72	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	Missing left claw and right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS051	1	116	na	98	female	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS052	1	135	na	120	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS053	1	79	na	34	male	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS075	1	168	na	216	male	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS076	1	125	na	90	male	LPR3N-A4	Gillnet	2009-08-14 07:46:00	Missing right swimmerette, left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS078	1	119	na	94	female	LPR3N-A4	Gillnet	2009-08-14 07:46:00	Missing part of right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS080	1	131	na	156	male	LPR3N-A4	Gillnet	2009-08-14 07:46:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS109	1	115	na	68	female	LPR3N-A5	Gillnet	2009-08-15 08:20:00	Missing both claws; partially crushed swimmerette; broken left spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS111	1	123	na	88	female	LPR3N-A5	Gillnet	2009-08-15 08:20:00	Missing legs and left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS112	1	123	na	110	male	LPR3N-A5	Gillnet	2009-08-15 08:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS113	1	85	na	38	male	LPR3N-A5	Gillnet	2009-08-15 08:20:00	Missing right leg and both claws

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3N-CS115	1	137	na	118	male	LPR3N-A5	Gillnet	2009-08-15 08:20:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS001	1	154	na	222	male	LPR3O-A1	Gillnet	2009-08-11 07:21:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS002	1	136	na	128	male	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS003	1	151	na	159	male	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS034	1	117	na	98	male	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS035	1	161	na	178	male	LPR3O-A2	Gillnet	2009-08-12 11:52:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS036	1	116	na	74	female	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS037	1	112	na	64	female	LPR3O-A2	Gillnet	2009-08-12 11:52:00	Damaged spine, missing 2 legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS038	1	90	na	54	female	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS039	1	122	na	126	male	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS040	1	146	na	90	male	LPR3O-A2	Gillnet	2009-08-12 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS062	1	133	na	112	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS063	1	168	na	234	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS064	1	97	na	58	female	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS065	1	151	na	132	female	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS066	1	112	na	82	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Both claws, front right leg and right carapace spine missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS067	1	164	na	242	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS068	1	143	na	152	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Missing right claw, damaged right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS069	1	141	na	160	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Missing left eye, damaged last 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS070	1	126	na	124	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS081	1	140	na	134	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS082	1	108	na	90	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	Part of left spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS083	1	132	na	140	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS084	1	140	na	172	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS085	1	144	na	104	female	LPR3O-A4	Gillnet	2009-08-14 08:44:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS086	1	122	na	90	female	LPR3O-A4	Gillnet	2009-08-14 08:44:00	Detached right claw, included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS087	1	126	na	138	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS088	1	132	na	134	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS090	1	128	na	134	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS091	1	114	na	96	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS092	1	146	na	202	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS093	1	151	na	214	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS094	1	146	na	186	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS095	1	160	na	272	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS096	1	147	na	222	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS097	1	152	na	226	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS098	1	157	na	180	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Missing left claw and swimmerette, 2 legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS099	1	116	na	80	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS100	1	124	na	96	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS101	1	127	na	126	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Missing right claw, left spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS102	1	126	na	108	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS103	1	152	na	12	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Missing left claw and 2 left legs; very soft shell
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS104	1	110	na	74	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS105	1	147	na	132	female	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Missing part of right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS106	1	125	na	170	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR3O-CS107	1	137	na	150	male	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS108	1	76	na	34	male	LPR4F-B2	Crab Trap	2009-08-15 07:40:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS135	1	103	na	68	female	LPR4F-C3	Crab Trap	2009-08-18 10:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS136	1	112	na	86	female	LPR4F-C3	Crab Trap	2009-08-18 10:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS139	1	117	na	70	female	LPR4F-C4	Crab Trap	2009-08-19 10:51:00	Missing both claws and right front leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS144	1	81	na	44	male	LPR4F-B4	Crab Trap	2009-08-19 10:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS155	1	99	na	72	male	LPR4F-C5	Crab Trap	2009-08-20 12:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS158	1	138	na	140	male	LPR4F-A5	Crab Trap	2009-08-20 12:11:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4F-CS159	1	78	na	36	male	LPR4F-C5	Crab Trap	2009-08-20 12:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS071	1	97	na	64	male	LPR4G-C1	Crab Trap	2009-08-14 08:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS134	1	100	na	58	male	LPR4G-C3	Crab Trap	2009-08-18 10:46:00	Right claw detached (included)
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS137	1	106	na	74	male	LPR4G-A3	Crab Trap	2009-08-18 13:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS138	1	73	na	28	male	LPR4G-B3	Crab Trap	2009-08-18 10:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS153	1	130	na	100	male	LPR4G-B5	Crab Trap	2009-08-20 13:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS154	1	103	na	72	male	LPR4G-A5	Crab Trap	2009-08-20 13:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS156	1	95	na	54	female	LPR4G-B5	Crab Trap	2009-08-20 13:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS873	1	113	na	90	male	LPR4G-A9	Crab Trap	2009-09-18 11:11:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS877	1	155	na	206	male	LPR4G-B7	Crab Trap	2009-09-18 13:30:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS878	1	166	na	186	female	LPR4G-B7	Crab Trap	2009-09-18 13:30:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS890	1	141	na	144	male	LPR4G-B10	Crab Trap	2009-09-19 15:05:00	Left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4G-CS892	1	83	na	41	female	LPR4G-B10	Crab Trap	2009-09-19 15:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS072	1	108	na	80	male	LPR4H-B1	Crab Trap	2009-08-14 08:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS074	1	128	na	84	female	LPR4H-C1	Crab Trap	2009-08-14 08:22:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS125	1	120	na	78	female	LPR4H-A3	Crab Trap	2009-08-18 07:59:00	One missing right claw, one detached left claw (included)
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS143	1	90	na	56	male	LPR4H-B4	Crab Trap	2009-08-19 12:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS150	1	66	na	26	male	LPR4H-A4	Crab Trap	2009-08-19 12:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS151	1	111	na	86	male	LPR4H-C4	Crab Trap	2009-08-19 12:26:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS837	1	106	na	68	male	LPR4H-A6	Crab Trap	2009-09-15 08:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS838	1	105	na	76	male	LPR4H-B6	Crab Trap	2009-09-15 08:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS845	1	129	na	118	male	LPR4H-A7	Crab Trap	2009-09-16 09:11:00	Right claw regrowing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4H-CS872	1	140	na	166	male	LPR4H-A9	Crab Trap	2009-09-18 09:34:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS126	1	115	na	68	male	LPR4L-A1	Gillnet	2009-08-18 10:35:00	Missing left swimmerette

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS127	1	148	na	116	female	LPR4L-A1	Gillnet	2009-08-18 10:35:00	Mature
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS149	1	104	na	70	male	LPR4L-A3	Gillnet	2009-08-20 13:19:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS162	1	139	na	160	male	LPR4L-A5	Gillnet	2009-08-22 07:23:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS163	1	105	na	84	male	LPR4L-A5	Gillnet	2009-08-22 07:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS824	1	146	na	186	male	LPR4L-A6	Gillnet	2009-09-15 09:53:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS825	1	139	na	150	male	LPR4L-A6	Gillnet	2009-09-15 09:53:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS826	1	127	na	138	male	LPR4L-A6	Gillnet	2009-09-15 09:53:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4L-CS844	1	136	na	142	male	LPR4L-A7	Gillnet	2009-09-16 10:28:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS128	1	96	na	56	male	LPR4O-A1	Gillnet	2009-08-18 11:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS129	1	106	na	84	male	LPR4O-A1	Gillnet	2009-08-18 11:41:00	Right spine broken
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS130	1	136	na	130	male	LPR4O-A1	Gillnet	2009-08-18 11:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS131	1	118	na	82	female	LPR4O-A1	Gillnet	2009-08-18 11:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS140	1	121	na	94	male	LPR4O-A2	Gillnet	2009-08-19 12:58:00	Detached left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS823	1	125	na	104	male	LPR4O-A6	Gillnet	2009-09-15 09:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS842	1	126	na	100	male	LPR4O-A7	Gillnet	2009-09-16 10:08:00	Missing left claw; damaged right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4O-CS843	1	151	na	128	female	LPR4O-A7	Gillnet	2009-09-16 10:08:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS132	1	115	na	24	female	LPR4P-A1	Gillnet	2009-08-18 12:01:00	Broken right spine; left claw detached (included)
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS133	1	131	na	112	male	LPR4P-A1	Gillnet	2009-08-18 12:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS141	1	127	na	110	male	LPR4P-A2	Gillnet	2009-08-19 13:11:00	Missing 2 left legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS142	1	110	na	68	male	LPR4P-A2	Gillnet	2009-08-19 13:11:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS858	1	168	na	212	male	LPR4P-A8	Gillnet	2009-09-17 10:25:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR4P-CS859	1	123	na	122	male	LPR4P-A8	Gillnet	2009-09-17 10:25:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5E-CS122	1	120	na	106	male	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5E-CS123	1	108	na	74	male	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5E-CS857	1	120	na	86	male	LPR5E-A7	Gillnet	2009-09-17 10:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5G-CS124	1	104	na	70	male	LPR5G-A1	Gillnet	2009-08-18 08:40:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5G-CS145	1	109	na	76	male	LPR5G-A3	Gillnet	2009-08-20 11:36:00	Missing left claw, right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5G-CS146	1	105	na	66	male	LPR5G-A3	Gillnet	2009-08-20 11:36:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5G-CS147	1	103	na	68	male	LPR5G-A3	Gillnet	2009-08-20 11:36:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5I-CS822	1	149	na	160	male	LPR5I-A2	Gillnet	2009-09-15 08:34:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5J-CS148	1	127	na	96	male	LPR5J-B3	Trotline	2009-08-20 12:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS152	1	120	na	94	male	LPR5M-A3	Crab Trap	2009-08-20 16:29:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS157	1	140	na	70	female	LPR5M-C3	Crab Trap	2009-08-20 16:33:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS161	1	125	na	102	female	LPR5M-C4	Crab Trap	2009-08-21 12:55:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS166	1	120	na	84	female	LPR5M-C5	Crab Trap	2009-08-22 07:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS752	1	123	na	100	male	LPR5M-B3	Crab Trap	2009-09-05 15:15:00	trap lost on 8/19/09 was recovered
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS868	1	84	na	34	female	LPR5M-B6	Crab Trap	2009-09-17 11:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS882	1	112	na	72	male	LPR5M-B7	Crab Trap	2009-09-18 13:45:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS884	1	115	na	90	male	LPR5M-B7	Crab Trap	2009-09-18 13:45:00	Regrowing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS887	1	112	na	67	female	LPR5M-A10	Crab Trap	2009-09-19 09:16:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS888	1	151	na	166	male	LPR5M-A10	Crab Trap	2009-09-19 09:16:00	Missing left claw

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5M-CS889	1	136	na	136	male	LPR5M-B8	Crab Trap	2009-09-19 09:12:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS160	1	138	na	130	male	LPR5O-C4	Crab Trap	2009-08-21 13:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS164	1	87	na	50	male	LPR5O-C5	Crab Trap	2009-08-22 07:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS165	1	81	na	40	male	LPR5O-C5	Crab Trap	2009-08-22 07:17:00	Missing 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS167	1	102	na	64	male	LPR5O-B5	Crab Trap	2009-08-22 07:22:00	Missing left claw, left swimmerette, left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS827	1	105	na	76	male	LPR5O-A6	Crab Trap	2009-09-15 09:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS829	1	133	na	110	male	LPR5O-A6	Crab Trap	2009-09-15 09:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS831	1	149	na	186	male	LPR5O-A6	Crab Trap	2009-09-15 09:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS832	1	142	na	158	male	LPR5O-B6	Crab Trap	2009-09-15 09:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS834	1	114	na	80	male	LPR5O-B6	Crab Trap	2009-09-15 09:49:00	Missing 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS835	1	129	na	120	male	LPR5O-B6	Crab Trap	2009-09-15 09:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS846	1	85	na	36	female	LPR5O-A7	Crab Trap	2009-09-16 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS847	1	112	na	88	male	LPR5O-A7	Crab Trap	2009-09-16 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS848	1	114	na	88	female	LPR5O-A7	Crab Trap	2009-09-16 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS862	1	136	na	114	female	LPR5O-B8	Crab Trap	2009-09-17 11:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS867	1	144	na	170	male	LPR5O-A8	Crab Trap	2009-09-17 11:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS870	1	124	na	110	male	LPR5O-B8	Crab Trap	2009-09-17 11:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS881	1	125	na	86	female	LPR5O-A9	Crab Trap	2009-09-18 13:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS883	1	140	na	170	male	LPR5O-A9	Crab Trap	2009-09-18 13:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR5O-CS885	1	113	na	96	male	LPR5O-B10	Crab Trap	2009-09-19 08:59:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS182	1	112	na	94	male	LPR6F-A1	Crab Trap	2009-08-25 10:42:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS196	1	104	na	78	male	LPR6F-A2	Crab Trap	2009-08-26 07:12:00	Missing swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS197	1	154	na	170	male	LPR6F-A2	Crab Trap	2009-08-26 07:12:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS198	1	134	na	118	male	LPR6F-A2	Crab Trap	2009-08-26 07:12:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS199	1	125	na	96	male	LPR6F-B2	Crab Trap	2009-08-26 07:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS207	1	106	na	84	female	LPR6F-C3	Crab Trap	2009-08-27 07:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS211	1	170	na	240	male	LPR6F-B3	Crab Trap	2009-08-27 06:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS219	1	112	na	96	male	LPR6F-A3	Crab Trap	2009-08-27 06:50:00	Right claw regrowing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS221	1	155	na	204	male	LPR6F-A3	Crab Trap	2009-08-27 06:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS249	1	157	na	236	male	LPR6F-A5	Crab Trap	2009-08-29 06:45:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS254	1	132	na	152	male	LPR6F-A5	Crab Trap	2009-08-29 06:45:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS255	1	150	na	186	male	LPR6F-A5	Crab Trap	2009-08-29 06:45:00	Damaged right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS828	1	140	na	136	male	LPR6F-B6	Crab Trap	2009-09-15 10:00:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS840	1	121	na	106	male	LPR6F-A6	Crab Trap	2009-09-15 09:58:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS841	1	134	na	162	male	LPR6F-B6	Crab Trap	2009-09-15 10:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS849	1	144	na	174	male	LPR6F-A7	Crab Trap	2009-09-16 10:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS850	1	138	na	134	male	LPR6F-A7	Crab Trap	2009-09-16 10:08:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS851	1	109	na	90	male	LPR6F-B7	Crab Trap	2009-09-16 10:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS852	1	132	na	116	male	LPR6F-B7	Crab Trap	2009-09-16 10:10:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS865	1	122	na	104	male	LPR6F-A8	Crab Trap	2009-09-17 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS866	1	141	na	146	male	LPR6F-A8	Crab Trap	2009-09-17 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS871	1	156	na	186	male	LPR6F-A8	Crab Trap	2009-09-17 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS874	1	112	na	74	male	LPR6F-A9	Crab Trap	2009-09-18 12:06:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS875	1	131	na	136	male	LPR6F-A9	Crab Trap	2009-09-18 12:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS876	1	77	na	36	male	LPR6F-A9	Crab Trap	2009-09-18 12:06:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS879	1	100	na	58	female	LPR6F-B9	Crab Trap	2009-09-18 12:10:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6F-CS886	1	119	na	110	male	LPR6F-A10	Crab Trap	2009-09-19 08:48:00	Right claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS183	1	122	na	88	female	LPR6G-C1	Crab Trap	2009-08-25 07:26:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS190	1	110	na	84	male	LPR6G-C2	Crab Trap	2009-08-26 07:43:00	Missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS206	1	108	na	66	male	LPR6G-A3	Crab Trap	2009-08-27 07:13:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS208	1	112	na	106	male	LPR6G-C3	Crab Trap	2009-08-27 07:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS213	1	147	na	178	male	LPR6G-C3	Crab Trap	2009-08-27 07:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS218	1	115	na	86	male	LPR6G-C3	Crab Trap	2009-08-27 07:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS226	1	137	na	138	male	LPR6G-A3	Crab Trap	2009-08-27 07:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS228	1	144	na	166	male	LPR6G-C4	Crab Trap	2009-08-28 07:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS233	1	161	na	182	male	LPR6G-A4	Crab Trap	2009-08-28 07:01:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS239	1	109	na	80	male	LPR6G-C4	Crab Trap	2009-08-28 07:04:00	Missing left claw and left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS247	1	115	na	82	female	LPR6G-A5	Crab Trap	2009-08-29 07:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS250	1	139	na	138	male	LPR6G-C5	Crab Trap	2009-08-29 07:08:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS252	1	109	na	84	male	LPR6G-A5	Crab Trap	2009-08-29 07:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS257	1	160	na	226	male	LPR6G-A5	Crab Trap	2009-08-29 07:04:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS830	1	141	na	170	male	LPR6G-A6	Crab Trap	2009-09-15 10:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS833	1	167	na	226	male	LPR6G-B6	Crab Trap	2009-09-15 10:09:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS836	1	98	na	62	male	LPR6G-A6	Crab Trap	2009-09-15 10:13:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS839	1	93	na	52	male	LPR6G-B6	Crab Trap	2009-09-15 10:09:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS853	1	127	na	124	male	LPR6G-A7	Crab Trap	2009-09-16 10:17:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS860	1	131	na	138	male	LPR6G-A8	Crab Trap	2009-09-17 11:38:00	Left claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS863	1	110	na	74	male	LPR6G-A8	Crab Trap	2009-09-17 11:38:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS864	1	111	na	94	male	LPR6G-B8	Crab Trap	2009-09-17 11:36:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS869	1	146	na	158	male	LPR6G-A8	Crab Trap	2009-09-17 11:38:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS880	1	97	na	68	male	LPR6G-A9	Crab Trap	2009-09-18 12:19:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6G-CS891	1	113	na	85	male	LPR6G-A10	Crab Trap	2009-09-19 12:12:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS215	1	105	na	70	male	LPR6H-A3	Crab Trap	2009-08-27 07:36:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS240	1	110	na	94	male	LPR6H-A4	Crab Trap	2009-08-28 07:27:00	Missing left leg and left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS245	1	116	na	104	male	LPR6H-B5	Crab Trap	2009-08-29 07:32:00	Right spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS246	1	102	na	88	male	LPR6H-B5	Crab Trap	2009-08-29 07:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS854	1	143	na	144	male	LPR6H-B7	Crab Trap	2009-09-16 10:22:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS855	1	99	na	74	male	LPR6H-A7	Crab Trap	2009-09-16 10:25:00	Left spine damaged
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS856	1	127	na	138	male	LPR6H-A7	Crab Trap	2009-09-16 10:25:00	Damaged right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6H-CS861	1	141	na	154	male	LPR6H-B8	Crab Trap	2009-09-17 11:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6J-CS241	1	101	na	66	male	LPR6J-C4	Crayfish Trap	2009-08-28 07:11:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6K-CS200	1	95	na	54	male	LPR6K-A2	Crayfish Trap	2009-08-26 08:25:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6M-CS203	1	135	na	130	male	LPR6M-A3	Gillnet	2009-08-27 07:52:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6N-CS201	1	145	na	160	male	LPR6N-A3	Gillnet	2009-08-27 07:06:00	Damaged abdominal apron, missing left swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6N-CS202	1	131	na	120	male	LPR6N-A3	Gillnet	2009-08-27 07:06:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6N-CS243	1	123	na	146	male	LPR6N-A5	Gillnet	2009-08-29 07:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR6N-CS244	1	155	na	194	male	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS177	1	104	na	72	male	LPR7F-C1	Crab Trap	2009-08-25 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS178	1	146	na	176	male	LPR7F-C1	Crab Trap	2009-08-25 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS179	1	120	na	86	female	LPR7F-C1	Crab Trap	2009-08-25 09:24:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS180	1	132	na	136	male	LPR7F-C1	Crab Trap	2009-08-25 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS181	1	129	na	96	female	LPR7F-C1	Crab Trap	2009-08-25 09:24:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS186	1	145	na	154	male	LPR7F-C2	Crab Trap	2009-08-26 11:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS187	1	142	na	150	male	LPR7F-C2	Crab Trap	2009-08-26 11:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS205	1	103	na	58	male	LPR7F-A3	Crab Trap	2009-08-27 08:38:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS210	1	133	na	140	male	LPR7F-A3	Crab Trap	2009-08-27 08:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS212	1	149	na	166	male	LPR7F-A3	Crab Trap	2009-08-27 08:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS214	1	126	na	106	male	LPR7F-C3	Crab Trap	2009-08-27 08:46:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS216	1	130	na	128	male	LPR7F-A3	Crab Trap	2009-08-27 08:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS230	1	141	na	152	male	LPR7F-A4	Crab Trap	2009-08-28 08:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS237	1	120	na	96	male	LPR7F-B4	Crab Trap	2009-08-28 08:36:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7F-CS238	1	115	na	90	male	LPR7F-A4	Crab Trap	2009-08-28 08:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS169	1	148	na	170	male	LPR7G-A1	Crab Trap	2009-08-25 09:42:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS170	1	155	na	130	male	LPR7G-A1	Crab Trap	2009-08-25 09:42:00	Missing a leg on each side, missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS171	1	110	na	84	male	LPR7G-C1	Crab Trap	2009-08-25 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS172	1	157	na	182	male	LPR7G-A1	Crab Trap	2009-08-25 09:42:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS173	1	134	na	134	male	LPR7G-B1	Crab Trap	2009-08-25 09:39:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS174	1	164	na	234	male	LPR7G-C1	Crab Trap	2009-08-25 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS175	1	135	na	114	male	LPR7G-C1	Crab Trap	2009-08-25 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS176	1	131	na	128	male	LPR7G-C1	Crab Trap	2009-08-25 09:35:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS188	1	114	na	76	female	LPR7G-C2	Crab Trap	2009-08-26 10:47:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS189	1	175	na	228	male	LPR7G-C2	Crab Trap	2009-08-26 10:47:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS192	1	120	na	86	female	LPR7G-A2	Crab Trap	2009-08-26 11:14:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS193	1	127	na	110	male	LPR7G-B2	Crab Trap	2009-08-26 11:11:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS217	1	98	na	42	female	LPR7G-C3	Crab Trap	2009-08-27 08:55:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS220	1	146	na	194	male	LPR7G-B3	Crab Trap	2009-08-27 08:59:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS223	1	152	na	176	male	LPR7G-C3	Crab Trap	2009-08-27 08:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS224	1	144	na	148	male	LPR7G-A3	Crab Trap	2009-08-27 09:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS225	1	131	na	140	male	LPR7G-A3	Crab Trap	2009-08-27 09:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS227	1	125	na	106	male	LPR7G-C3	Crab Trap	2009-08-27 08:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS229	1	144	na	170	male	LPR7G-C4	Crab Trap	2009-08-28 08:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS231	1	165	na	244	male	LPR7G-C4	Crab Trap	2009-08-28 08:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS232	1	142	na	160	male	LPR7G-A4	Crab Trap	2009-08-28 08:55:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS260	1	151	na	164	male	LPR7G-C5	Crab Trap	2009-08-29 11:28:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS262	1	161	na	194	male	LPR7G-A5	Crab Trap	2009-08-29 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS263	1	99	na	76	male	LPR7G-A5	Crab Trap	2009-08-29 11:27:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7G-CS264	1	145	na	170	male	LPR7G-C5	Crab Trap	2009-08-29 11:28:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS194	1	137	na	140	male	LPR7H-B2	Crab Trap	2009-08-26 08:58:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS195	1	100	na	106	male	LPR7H-B2	Crab Trap	2009-08-26 08:58:00	Missing right leg, damage to carapace

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS209	1	115	na	84	male	LPR7H-B3	Crab Trap	2009-08-27 08:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS222	1	130	na	92	male	LPR7H-A3	Crab Trap	2009-08-27 08:08:00	Missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS234	1	124	na	104	male	LPR7H-B4	Crab Trap	2009-08-28 07:59:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS248	1	109	na	100	male	LPR7H-B5	Crab Trap	2009-08-29 08:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS253	1	168	na	234	male	LPR7H-C5	Crab Trap	2009-08-29 08:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS256	1	155	na	218	male	LPR7H-B5	Crab Trap	2009-08-29 08:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7H-CS258	1	112	na	80	male	LPR7H-B5	Crab Trap	2009-08-29 08:01:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7I-CS191	1	95	na	56	male	LPR7I-A2	Crayfish Trap	2009-08-26 11:34:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7I-CS235	1	106	na	86	male	LPR7I-A4	Crayfish Trap	2009-08-28 08:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7I-CS261	1	91	na	48	female	LPR7I-B5	Crayfish Trap	2009-08-29 11:40:00	Missing both claws and right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7J-CS236	1	91	na	48	female	LPR7J-B4	Crayfish Trap	2009-08-28 09:05:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7K-CS242	1	65	na	26	male	LPR7K-C4	Crayfish Trap	2009-08-28 07:51:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7K-CS251	1	102	na	70	male	LPR7K-A5	Crayfish Trap	2009-08-29 07:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7L-CS184	1	140	na	118	male	LPR7L-A2	Gillnet	2009-08-26 10:18:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7L-CS185	1	148	na	148	male	LPR7L-A2	Gillnet	2009-08-26 10:18:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7M-CS168	1	150	na	152	male	LPR7M-A1	Gillnet	2009-08-25 10:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7M-CS204	1	140	na	134	male	LPR7M-A3	Gillnet	2009-08-27 09:01:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR7O-CS259	1	143	na	152	male	LPR7O-C5	Trotline	2009-08-29 12:01:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8H-CS807	1	88	na	37	female	LPR8H-A4	Crayfish Trap	2009-09-12 07:47:00	Missing right claw, right leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS770	1	135	na	148	male	LPR8J-B2	Crab Trap	2009-09-09 09:54:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS771	1	127	na	118	male	LPR8J-B2	Crab Trap	2009-09-09 09:54:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS772	1	167	na	222	male	LPR8J-B2	Crab Trap	2009-09-09 09:54:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS775	1	164	na	180	male	LPR8J-C3	Crab Trap	2009-09-10 10:23:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS776	1	137	na	134	male	LPR8J-C3	Crab Trap	2009-09-10 10:23:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS777	1	158	na	214	male	LPR8J-B3	Crab Trap	2009-09-10 10:30:00	Damaged right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS804	1	119	na	90	male	LPR8J-A4	Crab Trap	2009-09-12 08:25:00	Both claws and right leg missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8J-CS805	1	149	na	130	male	LPR8J-B4	Crab Trap	2009-09-12 08:22:00	Both claws and right leg missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS757	1	130	na	126	male	LPR8K-B1	Crab Trap	2009-09-08 09:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS758	1	94	na	56	male	LPR8K-C1	Crab Trap	2009-09-08 09:54:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS763	1	159	na	170	male	LPR8K-A2	Crab Trap	2009-09-09 08:49:00	Missing right claw and 2 right legs
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS764	1	119	na	86	male	LPR8K-A2	Crab Trap	2009-09-09 08:49:00	Missing both claws
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS765	1	161	na	202	male	LPR8K-A2	Crab Trap	2009-09-09 08:49:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS766	1	140	na	156	male	LPR8K-C2	Crab Trap	2009-09-09 08:47:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS767	1	111	na	88	male	LPR8K-B2	Crab Trap	2009-09-09 08:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS768	1	145	na	172	male	LPR8K-B2	Crab Trap	2009-09-09 08:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS769	1	128	na	126	male	LPR8K-B2	Crab Trap	2009-09-09 08:56:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS783	1	140	na	148	male	LPR8K-B3	Crab Trap	2009-09-10 11:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS784	1	140	na	160	male	LPR8K-B3	Crab Trap	2009-09-10 11:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS785	1	165	na	204	male	LPR8K-B3	Crab Trap	2009-09-10 11:57:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS786	1	121	na	102	male	LPR8K-B3	Crab Trap	2009-09-10 11:57:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS787	1	123	na	112	male	LPR8K-B3	Crab Trap	2009-09-10 11:57:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS788	1	142	na	138	male	LPR8K-C3	Crab Trap	2009-09-10 12:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS789	1	134	na	128	male	LPR8K-A3	Crab Trap	2009-09-10 12:03:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS802	1	145	na	152	male	LPR8K-B4	Crab Trap	2009-09-12 07:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS803	1	128	na	136	male	LPR8K-B4	Crab Trap	2009-09-12 07:41:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8K-CS806	1	174	na	208	male	LPR8K-C4	Crab Trap	2009-09-12 07:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8L-CS821	1	107	na	88	male	LPR8L-A5	Crab Trap	2009-09-12 10:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8M-CS818	1	156	na	182	male	LPR8M-A5	Crab Trap	2009-09-12 10:02:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8M-CS819	1	114	na	81	male	LPR8M-A5	Crab Trap	2009-09-12 10:02:00	Missing both claws and left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8M-CS820	1	106	na	76	male	LPR8M-B5	Crab Trap	2009-09-12 10:07:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS756	1	122	na	96	male	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS762	1	153	na	185	male	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS778	1	153	na	198	male	LPR8R-A3	Gillnet	2009-09-10 11:15:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS779	1	160	na	192	male	LPR8R-A3	Gillnet	2009-09-10 11:15:00	Left claw missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS780	1	144	na	144	male	LPR8R-A3	Gillnet	2009-09-10 11:15:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS781	1	111	na	82	male	LPR8R-A3	Gillnet	2009-09-10 11:15:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS782	1	145	na	122	male	LPR8R-A3	Gillnet	2009-09-10 11:15:00	Missing left claw, left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS808	1	125	na	114	male	LPR8R-A4	Gillnet	2009-09-12 08:45:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8R-CS809	1	114	na	73	male	LPR8R-A4	Gillnet	2009-09-12 08:45:00	Missing both claws and 2 right legs; damaged right spine
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS755	1	163	na	166	male	LPR8S-A1	Gillnet	2009-09-08 07:48:00	Missing left claw and right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS790	1	159	na	206	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS791	1	159	na	126	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Missing right claw, damaged right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS792	1	116	na	94	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Missing right swimmerette
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS793	1	127	na	102	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Missing right claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS794	1	156	na	178	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS795	1	142	na	152	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS796	1	135	na	134	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS797	1	133	na	126	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS798	1	142	na	138	male	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Right claw included
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS816	1	150	na	184	male	LPR8S-A4	Gillnet	2009-09-12 12:00:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8S-CS817	1	145	na	150	male	LPR8S-A4	Gillnet	2009-09-12 12:00:00	Missing left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8U-CS801	1	124	na	90	male	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	Left claw included; recently molted
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS774	1	135	na	144	male	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS810	1	114	na	90	male	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	Missing right claw, right leg, and left leg
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS811	1	116	na	94	male	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS812	1	122	na	126	male	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS813	1	133	na	130	male	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8V-CS814	1	125	na	112	male	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8W-CS754	1	96	na	54	male	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8W-CS815	1	133	na	102	male	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	Missing both claws

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS759	1	128	na	132	male	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS760	1	107	na	78	male	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	Left claw missing
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS761	1	94	na	52	male	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS773	1	113	na	90	male	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS799	1	130	na	110	male	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	Missing left claw
Tissue analysis	Blue crab	*Callinectes sapidus*	LPR8Y-CS800	1	93	na	50	male	LPR8Y-A4	Backpack Electrofishing	2009-09-10 10:35:00	Regrowing right claw
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR3F-AN001	1	281	na	300	indeterminant	LPR3F-C2	Crab Trap	2009-08-12 09:27:00	
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR4O-AN007	1	297	na	414	indeterminant	LPR4O-A7	Gillnet	2009-09-16 10:08:00	
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR6P-AN004	1	287	na	330	indeterminant	LPR6P-A4	Trotline	2009-08-28 08:05:00	Missing right eye
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR6P-AN005	1	259	na	240	indeterminant	LPR6P-C5	Trotline	2009-08-29 11:01:00	
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR6S-AN002	1	210	na	130	indeterminant	LPR6S-C1	Trotline	2009-08-25 08:10:00	Bulging left eye, damaged caudal fin
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR6S-AN003	1	251	na	188	indeterminant	LPR6S-A4	Trotline	2009-08-28 07:24:00	
Tissue analysis	Brown bullhead	*Ameiurus nebulosus*	LPR7P-AN006	1	245	na	200	indeterminant	LPR7P-B5	Trotline	2009-08-29 11:44:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR5F-IP001	1	430	na	610	indeterminant	LPR5F-A1	Trotline	2009-08-18 08:15:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR5O-IP002	1	183	na	44	indeterminant	LPR5O-B1	Crab Trap	2009-08-18 09:36:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR5O-IP014	1	185	na	42	indeterminant	LPR5O-B10	Crab Trap	2009-09-19 08:59:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR6M-IP004	1	435	na	708	indeterminant	LPR6M-A2	Gillnet	2009-08-26 08:29:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR6Q-IP003	1	493	na	810	indeterminant	LPR6Q-B1	Trotline	2009-08-25 07:17:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR6S-IP007	1	340	na	286	indeterminant	LPR6S-A4	Trotline	2009-08-28 07:24:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR7L-IP005	1	371	na	488	indeterminant	LPR7L-A2	Gillnet	2009-08-26 10:18:00	Damaged caudal fin
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR7Q-IP006	1	455	na	900	indeterminant	LPR7Q-C3	Trotline	2009-08-27 09:34:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8R-IP008	1	352	na	510	indeterminant	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8R-IP009	1	510	na	1490	indeterminant	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8S-IP010	1	460	na	925	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8S-IP011	1	466	na	1015	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8S-IP012	1	405	na	905	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Damaged tail
Tissue analysis	Channel catfish	*Ictalurus punctatus*	LPR8S-IP013	1	480	na	975	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR3M-CC004	1	635	na	3600	indeterminant	LPR3M-A5	Gillnet	2009-08-15 08:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR3M-CC005	1	550	na	2200	indeterminant	LPR3M-A5	Gillnet	2009-08-15 08:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR3N-CC001	1	610	na	5000	indeterminant	LPR3N-A1	Gillnet	2009-08-11 09:25:00	Length >610, weight >5000
Tissue analysis	Common carp	*Cyprinus carpio*	LPR3N-CC002	1	575	na	2590	indeterminant	LPR3N-A1	Gillnet	2009-08-11 09:25:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4L-CC152	1	546	na	2600	indeterminant	LPR4L-A6	Gillnet	2009-09-15 09:53:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4L-CC156	1	606	na	3850	indeterminant	LPR4L-A8	Gillnet	2009-09-17 11:05:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4O-CC155	1	779	na	7130	indeterminant	LPR4O-A8	Gillnet	2009-09-17 10:49:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4P-CC009	1	485	na	1900	indeterminant	LPR4P-A1	Gillnet	2009-08-18 12:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4P-CC017	1	560	na	2900	indeterminant	LPR4P-A3	Gillnet	2009-08-20 14:22:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4P-CC154	1	611	na	3950	indeterminant	LPR4P-A8	Gillnet	2009-09-17 10:25:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4R-CC173	1	525	na	2074	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4R-CC174	1	535	na	2398	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4R-CC187	1	567	na	2632	indeterminant	LPR4R-A2	Boat Electrofishing	2009-09-19 13:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4S-CC175	1	607	na	3748	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4S-CC176	1	540	na	2498	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4S-CC177	1	630	na	3350	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4S-CC188	1	532	na	2102	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4T-CC178	1	534	na	2182	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR4T-CC186	1	573	na	3498	indeterminant	LPR4T-A2	Boat Electrofishing	2009-09-19 12:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC006	1	516	na	2050	indeterminant	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC007	1	574	na	2550	indeterminant	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC008	1	592	na	3950	indeterminant	LPR5E-A1	Gillnet	2009-08-18 07:43:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC010	1	646	na	2500	indeterminant	LPR5E-A2	Gillnet	2009-08-19 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC012	1	650	na	4200	indeterminant	LPR5E-A3	Gillnet	2009-08-20 10:56:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC013	1	600	na	3450	indeterminant	LPR5E-A3	Gillnet	2009-08-20 10:56:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC014	1	645	na	4550	indeterminant	LPR5E-A3	Gillnet	2009-08-20 10:56:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC015	1	565	na	2950	indeterminant	LPR5E-A3	Gillnet	2009-08-20 10:56:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5E-CC018	1	520	na	2250	indeterminant	LPR5E-A5	Gillnet	2009-08-22 09:03:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5G-CC011	1	524	na	2500	indeterminant	LPR5G-A2	Gillnet	2009-08-19 10:03:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5G-CC016	1	470	na	1400	indeterminant	LPR5G-A3	Gillnet	2009-08-20 11:36:00	Missing left eye
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5I-CC153	1	542	na	2100	indeterminant	LPR5I-A3	Gillnet	2009-09-16 09:09:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5Q-CC179	1	556	na	2708	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC157	1	544	na	3052	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC158	1	604	na	3960	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC159	1	564	na	2700	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC160	1	608	na	3898	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC161	1	577	na	3056	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC162	1	596	na	3296	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5R-CC163	1	560	na	2878	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC165	1	616	na	4590	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC166	1	666	na	5090	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC167	1	627	na	4065	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC168	1	636	na	3670	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC169	1	718	na	6040	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC170	1	666	na	5555	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC180	1	533	na	2506	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC181	1	727	na	6675	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5S-CC182	1	530	na	2716	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5T-CC172	1	577	na	3358	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5T-CC183	1	608	na	3772	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5T-CC184	1	635	na	5355	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR5T-CC185	1	645	na	3684	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC031	1	509	na	1910	indeterminant	LPR6L-A1	Gillnet	2009-08-25 09:54:00	Missing left eye
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC032	1	625	na	4500	indeterminant	LPR6L-A1	Gillnet	2009-08-25 09:54:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC033	1	532	na	2220	indeterminant	LPR6L-A1	Gillnet	2009-08-25 09:54:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC050	1	530	na	2132	indeterminant	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC051	1	575	na	2624	indeterminant	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC052	1	500	na	1652	indeterminant	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC053	1	555	na	2096	indeterminant	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC054	1	535	na	2242	indeterminant	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC066	1	495	na	1884	indeterminant	LPR6L-A3	Gillnet	2009-08-27 08:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC067	1	582	na	3526	indeterminant	LPR6L-A3	Gillnet	2009-08-27 08:24:00	Missing right eye

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC084	1	615	na	3494	indeterminant	LPR6L-A4	Gillnet	2009-08-28 08:25:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC085	1	550	na	2422	indeterminant	LPR6L-A4	Gillnet	2009-08-28 08:25:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC086	1	570	na	3398	indeterminant	LPR6L-A4	Gillnet	2009-08-28 08:25:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC104	1	709	na	5000	indeterminant	LPR6L-A5	Gillnet	2009-08-29 08:10:00	Weight >5000 g
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC105	1	603	na	3188	indeterminant	LPR6L-A5	Gillnet	2009-08-29 08:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC106	1	536	na	2296	indeterminant	LPR6L-A5	Gillnet	2009-08-29 08:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6L-CC107	1	554	na	3058	indeterminant	LPR6L-A5	Gillnet	2009-08-29 08:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC027	1	570	na	3000	indeterminant	LPR6M-A1	Gillnet	2009-08-25 08:43:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC028	1	590	na	3050	indeterminant	LPR6M-A1	Gillnet	2009-08-25 08:43:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC029	1	480	na	1950	indeterminant	LPR6M-A1	Gillnet	2009-08-25 08:43:00	Frayed caudal fin
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC030	1	475	na	2050	indeterminant	LPR6M-A1	Gillnet	2009-08-25 08:43:00	Frayed caudal fin
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC083	1	540	na	2520	indeterminant	LPR6M-A4	Gillnet	2009-08-28 07:50:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC100	1	548	na	2452	indeterminant	LPR6M-A5	Gillnet	2009-08-29 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC101	1	528	na	2156	indeterminant	LPR6M-A5	Gillnet	2009-08-29 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC102	1	552	na	2598	indeterminant	LPR6M-A5	Gillnet	2009-08-29 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6M-CC103	1	532	na	2418	indeterminant	LPR6M-A5	Gillnet	2009-08-29 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC019	1	547	na	2242	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC020	1	535	na	2550	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC021	1	570	na	2963	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC022	1	519	na	1930	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC023	1	565	na	2448	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC024	1	520	na	2200	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC025	1	475	na	2134	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC026	1	530	na	2028	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC045	1	555	na	2600	indeterminant	LPR6N-A2	Gillnet	2009-08-26 07:38:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC046	1	563	na	2060	indeterminant	LPR6N-A2	Gillnet	2009-08-26 07:38:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC047	1	517	na	2198	indeterminant	LPR6N-A2	Gillnet	2009-08-26 07:38:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC048	1	550	na	1960	indeterminant	LPR6N-A2	Gillnet	2009-08-26 07:38:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC064	1	494	na	1732	indeterminant	LPR6N-A3	Gillnet	2009-08-27 07:06:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC065	1	558	na	2342	indeterminant	LPR6N-A3	Gillnet	2009-08-27 07:06:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC096	1	506	na	2380	indeterminant	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC097	1	527	na	2246	indeterminant	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC098	1	527	na	2436	indeterminant	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR6N-CC099	1	486	na	1806	indeterminant	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC037	1	530	na	2032	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC038	1	400	na	1166	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins and head damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC039	1	530	na	2470	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC040	1	475	na	1690	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC041	1	510	na	2054	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC042	1	610	na	3100	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC043	1	515	na	2048	indeterminant	LPR7L-A1	Gillnet	2009-08-25 11:33:00	Fins damaged by gillnet
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC061	1	520	na	2044	indeterminant	LPR7L-A2	Gillnet	2009-08-26 10:18:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC062	1	530	na	2090	indeterminant	LPR7L-A2	Gillnet	2009-08-26 10:18:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC063	1	535	na	2416	indeterminant	LPR7L-A2	Gillnet	2009-08-26 10:18:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC074	1	564	na	2756	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC075	1	528	na	2274	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC076	1	569	na	2992	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC077	1	448	na	1340	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC078	1	471	na	1516	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC079	1	535	na	2358	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC080	1	467	na	1604	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC081	1	558	na	2262	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC082	1	572	na	2500	indeterminant	LPR7L-A3	Gillnet	2009-08-27 10:24:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC087	1	542	na	2334	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC088	1	512	na	2076	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC089	1	508	na	2146	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC090	1	569	na	3050	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC091	1	564	na	2554	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC092	1	569	na	3168	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC093	1	549	na	2104	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC094	1	524	na	2366	indeterminant	LPR7L-A4	Gillnet	2009-08-28 09:32:00	Damaged caudal fin
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC095	1	587	na	2970	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC113	1	532	na	2044	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC114	1	515	na	1982	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	Missing both eyes. Damaged caudal fin
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC115	1	483	na	2062	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC116	1	472	na	1558	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC117	1	534	na	2116	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7L-CC118	1	553	na	2480	indeterminant	LPR7L-A5	Gillnet	2009-08-29 08:59:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC034	1	578	na	2830	indeterminant	LPR7M-A1	Gillnet	2009-08-25 10:41:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC035	1	564	na	2750	indeterminant	LPR7M-A1	Gillnet	2009-08-25 10:41:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC036	1	520	na	1850	indeterminant	LPR7M-A1	Gillnet	2009-08-25 10:41:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC055	1	560	na	2234	indeterminant	LPR7M-A2	Gillnet	2009-08-26 09:36:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC056	1	530	na	2188	indeterminant	LPR7M-A2	Gillnet	2009-08-26 09:36:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC057	1	580	na	2806	indeterminant	LPR7M-A2	Gillnet	2009-08-26 09:36:00	Carp subspecies
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC058	1	550	na	2208	indeterminant	LPR7M-A2	Gillnet	2009-08-26 09:36:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC059	1	515	na	1888	indeterminant	LPR7M-A2	Gillnet	2009-08-26 09:36:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC068	1	583	na	3162	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC069	1	570	na	3056	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC070	1	513	na	2064	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC071	1	517	na	1902	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC072	1	545	na	2326	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC073	1	498	na	1870	indeterminant	LPR7M-A3	Gillnet	2009-08-27 09:01:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC108	1	507	na	2396	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC109	1	463	na	2052	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC110	1	517	na	2084	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC111	1	456	na	1448	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR7M-CC112	1	523	na	2208	indeterminant	LPR7M-A5	Gillnet	2009-08-29 08:33:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC127	1	475	na	1684	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC128	1	584	na	3106	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC129	1	514	na	2086	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC130	1	596	na	2840	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC131	1	654	na	4150	indeterminant	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC132	1	564	na	2560	indeterminant	LPR8R-A2	Gillnet	2009-09-09 09:15:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8R-CC142	1	555	na	2820	indeterminant	LPR8R-A4	Gillnet	2009-09-12 08:45:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC119	1	602	na	3114	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC120	1	518	na	2300	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC121	1	549	na	4658	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC122	1	598	na	2810	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC123	1	597	na	3040	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC124	1	556	na	2502	indeterminant	LPR8S-A1	Gillnet	2009-09-08 07:48:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC133	1	554	na	2650	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC134	1	603	na	3630	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	Abrasion on ventral side
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC135	1	562	na	2750	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC136	1	472	na	1500	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC137	1	505	na	1675	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC138	1	520	na	2200	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC148	1	553	na	2260	indeterminant	LPR8S-A4	Gillnet	2009-09-12 12:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC149	1	525	na	2366	indeterminant	LPR8S-A4	Gillnet	2009-09-12 12:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC150	1	516	na	2260	indeterminant	LPR8S-A4	Gillnet	2009-09-12 12:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8S-CC151	1	451	na	1430	indeterminant	LPR8S-A4	Gillnet	2009-09-12 12:00:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8U-CC139	1	598	na	3140	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8U-CC140	1	555	na	2768	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8U-CC141	1	553	na	2358	indeterminant	LPR8U-A5	Boat Electrofishing	2009-09-12 07:58:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8V-CC143	1	510	na	1840	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8X-CC144	1	549	na	2625	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8X-CC145	1	523	na	2120	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8X-CC146	1	609	na	2884	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Common carp	*Cyprinus carpio*	LPR8X-CC147	1	596	na	3064	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Crayfish (unspecified)	*unspecified*	LPR8Z-CX001	1	33	na	1	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	Crayfish (unspecified)	*unspecified*	LPR8Z-CX002	1	28	na	0.3	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	Gizzard shad	*Dorosoma cepedianum*	LPR5R-DC004	1	449	na	1028	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	Gizzard shad	*Dorosoma cepedianum*	LPR8X-DC001	1	475	na	1330	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Gizzard shad	*Dorosoma cepedianum*	LPR8X-DC002	1	394	na	820	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR4R-MS017	1	108	na	18	indeterminant	LPR4R-A2	Boat Electrofishing	2009-09-19 13:59:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR4S-MS011	1	118	na	20	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR4T-MS012	1	124	na	22	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5Q-MS007	1	133	na	32	indeterminant	LPR5Q-A1	Boat Electrofishing	2009-09-18 10:10:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5Q-MS013	1	219	na	172	female	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5Q-MS014	1	119	na	21	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5R-MS008	1	120	na	22	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5R-MS009	1	305	na	440	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5R-MS010	1	98	na	14	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5R-MS015	1	279	na	320	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5R-MS016	1	107	na	16	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR5S-MS018	1	120	na	21	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8A-MS004	1	80	na	6.5	indeterminant	LPR8A-C3	Minnow Trap	2009-09-10 11:51:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8H-MS003	1	80	na	7	indeterminant	LPR8H-A1	Crayfish Trap	2009-09-08 09:38:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8W-MS001	1	58	na	2	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8W-MS005	1	55	na	2	indeterminant	LPR8W-A4	Boat Electrofishing	2009-09-10 10:11:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8X-MS002	1	307	na	422	indeterminant	LPR8X-A2	Boat Electrofishing	2009-09-08 10:09:00	
Tissue analysis	Largemouth bass	*Micropterus salmoides*	LPR8Y-MS006	1	70	na	4.5	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH004	1	65	na	3	male	LPR1D-A4	Minnow Trap	2009-09-04 11:00:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH010	1	59	na	2.5	female	LPR1D-A5	Minnow Trap	2009-09-05 10:56:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH011	1	55	na	2	female	LPR1D-A5	Minnow Trap	2009-09-05 10:56:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH012	1	53	na	2	male	LPR1D-A5	Minnow Trap	2009-09-05 10:56:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH013	1	47	na	0.3	female	LPR1D-A5	Minnow Trap	2009-09-05 10:56:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1D-FH014	1	53	na	2	male	LPR1D-A5	Minnow Trap	2009-09-05 10:56:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1Q-FH005	1	65	na	3	male	LPR1Q-B4	Eel Trap	2009-09-04 11:14:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1Q-FH006	1	69	na	4	female	LPR1Q-B5	Eel Trap	2009-09-05 10:48:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1Q-FH007	1	59	na	2.5	female	LPR1Q-B5	Eel Trap	2009-09-05 10:48:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1Q-FH008	1	58	na	2	male	LPR1Q-B5	Eel Trap	2009-09-05 10:48:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR1Q-FH009	1	56	na	2	male	LPR1Q-B5	Eel Trap	2009-09-05 10:48:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH002	1	86	na	8	female	LPR2B-B3	Minnow Trap	2009-09-03 14:23:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH003	1	63	na	2	male	LPR2B-B3	Minnow Trap	2009-09-03 14:23:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH015	1	52	na	1	male	LPR2B-A5	Minnow Trap	2009-09-05 11:08:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH016	1	55	na	2	male	LPR2B-A5	Minnow Trap	2009-09-05 11:08:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH017	1	62	na	3	female	LPR2B-A5	Minnow Trap	2009-09-05 11:08:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH018	1	79	na	7	male	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH019	1	61	na	2	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH020	1	79	na	5	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH021	1	54	na	1.5	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH022	1	56	na	2	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH023	1	78	na	7	male	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH024	1	55	na	2	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH025	1	80	na	6	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH026	1	75	na	6	male	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH027	1	55	na	2	female	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH028	1	68	na	3.5	female	LPR2B-B4	Minnow Trap	2009-09-05 14:45:00	trap lost on 9/4/09 was recovered
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH029	1	100	na	15	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH030	1	59	na	2	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH031	1	53	na	1.5	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH032	1	69	na	4	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH033	1	76	na	7	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH034	1	87	na	10	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH035	1	85	na	9	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH036	1	58	na	2	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH037	1	54	na	2	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH038	1	64	na	3	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH039	1	57	na	2	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH040	1	81	na	6	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH041	1	59	na	2.5	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH042	1	52	na	2	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH043	1	65	na	3	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH044	1	64	na	3	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH045	1	60	na	2.5	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH046	1	93	na	10	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH047	1	63	na	2	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH048	1	53	na	1.5	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH049	1	72	na	3	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH050	1	55	na	2	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH051	1	85	na	7	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH052	1	91	na	8	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH053	1	71	na	5	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH054	1	90	na	10	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH055	1	80	na	5	female	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR2B-FH056	1	82	na	6	male	LPR2B-B5	Minnow Trap	2009-09-05 11:10:00	
Tissue analysis	Mummichog	*Fundulus heteroclitus*	LPR5C-FH001	1	86	na	6	indeterminant	LPR5C-C2	Minnow Trap	2009-08-19 08:58:00	
Tissue analysis	Northern pike	*Esox lucius*	LPR5R-EL002	1	330	na	160	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Northern pike	*Esox lucius*	LPR6L-EL001	1	740	na	2800	indeterminant	LPR6L-A1	Gillnet	2009-08-25 09:54:00	Damaged caudal fin
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR6H-RB009	1	161	na	88	indeterminant	LPR6H-B9	Crab Trap	2009-09-18 12:24:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8L-RB006	1	99	na	16	indeterminant	LPR8L-A4	Crab Trap	2009-09-11 08:16:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB001	1	155	na	68	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB002	1	193	na	142	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB003	1	134	na	54	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB004	1	102	na	19	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB005	1	104	na	23	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB007	1	136	na	48	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	Rock bass	*Ambloplites rupestris*	LPR8Y-RB008	1	151	na	62	indeterminant	LPR8Y-A5	Backpack Electrofishing	2009-09-11 11:51:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR4S-MD014	1	294	na	308	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR4S-MD017	1	234	na	158	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR5Q-MD015	1	319	na	373	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR5R-MD013	1	227	na	140	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR5T-MD016	1	97	na	12	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR8U-MD009	1	204	na	114	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR8V-MD011	1	249	na	184	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR8W-MD012	1	154	na	42	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	Smallmouth bass	*Micropterus dolomieu*	LPR8Z-MD010	1	190	na	109	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	Spineycheek crayfish	*Orconectes limosus*	LPR7I-OL001	1	81	na	20	indeterminant	LPR7I-C4	Crayfish Trap	2009-08-28 08:46:00	
Tissue analysis	Spineycheek crayfish	*Orconectes limosus*	LPR8Y-OL003	1	49	na	3	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Spineycheek crayfish	*Orconectes limosus*	LPR8Y-OL004	1	49	na	3	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Spineycheek crayfish	*Orconectes limosus*	LPR8Z-OL002	1	44	na	2.3	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	Spineycheek crayfish	*Orconectes limosus*	LPR8Z-OL005	1	42	na	2	indeterminant	LPR8Z-A4	Backpack Electrofishing	2009-09-10 09:15:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR1H-SB016	1	351	na	448	indeterminant	LPR1H-C8	Trotline	2009-09-19 10:55:00	Minor damage to anal and caudal fin
Tissue analysis	Striped bass	*Morone saxatilis*	LPR4L-SB013	1	353	na	426	indeterminant	LPR4L-A6	Gillnet	2009-09-15 09:53:00	Gillnet damage to ventral side
Tissue analysis	Striped bass	*Morone saxatilis*	LPR4S-SB017	1	136	na	24	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR4S-SB018	1	143	na	25	female	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR4T-SB015	1	171	na	52	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR5T-SB014	1	126	na	18	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8R-SB006	1	685	na	3510	indeterminant	LPR8R-A3	Gillnet	2009-09-10 11:15:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB007	1	564	na	1600	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB008	1	173	na	50	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB009	1	265	na	162	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB010	1	212	na	74	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB011	1	214	na	86	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	Striped bass	*Morone saxatilis*	LPR8V-SB012	1	330	na	328	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	Fish tagged (#568616)
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR5A-EO001	1	50	na	1.1	indeterminant	LPR5A-C2	Minnow Trap	2009-08-19 10:32:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR5M-EO016	1	55	na	1	indeterminant	LPR5M-A6	Crab Trap	2009-09-15 09:35:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR6C-EO002	1	70	na	4	indeterminant	LPR6C-A1	Minnow Trap	2009-08-25 07:36:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR6I-EO005	1	52	na	1	indeterminant	LPR6I-B5	Crayfish Trap	2009-08-29 06:53:00	Weight <1g
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR6J-EO003	1	45	na	1	indeterminant	LPR6J-A2	Crayfish Trap	2009-08-26 07:49:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR7K-EO004	1	53	na	1	indeterminant	LPR7K-C2	Crayfish Trap	2009-08-26 08:50:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8W-EO015	1	53	na	1.2	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Y-EO006	1	80	na	4	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Y-EO009	1	56	na	1.3	indeterminant	LPR8Y-A2	Backpack Electrofishing	2009-09-09 12:20:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Y-EO011	1	57	na	2	indeterminant	LPR8Y-A3	Backpack Electrofishing	2009-09-10 09:55:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO007	1	52	na	1	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO008	1	60	na	2	indeterminant	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO010	1	49	na	1	indeterminant	LPR8Z-A3	Backpack Electrofishing	2009-09-10 08:40:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO012	1	55	na	1	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO013	1	47	na	1	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	Tessellated darter	*Etheostoma olmstedi*	LPR8Z-EO014	1	57	na	2	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR2K-AC018	1	355	na	778	indeterminant	LPR2K-A2	Gillnet	2009-09-02 14:13:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR3L-AC001	1	370	na	628	indeterminant	LPR3L-A1	Trotline	2009-08-11 11:08:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR3L-AC002	1	470	na	1250	indeterminant	LPR3L-C1	Trotline	2009-08-11 11:30:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR3L-AC004	1	290	na	310	indeterminant	LPR3L-B4	Trotline	2009-08-14 07:16:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR3P-AC005	1	471	na	1250	indeterminant	LPR3P-B4	Trotline	2009-08-14 09:04:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR3Q-AC003	1	340	na	510	indeterminant	LPR3Q-B3	Trotline	2009-08-13 10:26:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR4G-AC007	1	54	na	2	indeterminant	LPR4G-A4	Crab Trap	2009-08-19 11:42:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR4L-AC023	1	437	na	1294	indeterminant	LPR4L-A8	Gillnet	2009-09-17 11:05:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR5H-AC006	1	315	na	422	indeterminant	LPR5H-C2	Trotline	2009-08-19 10:51:00	Fin erosion

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White catfish	*Ameiurus catus*	LPR5S-AC024	1	490	na	1695	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR6P-AC011	1	228	na	120	indeterminant	LPR6P-A2	Trotline	2009-08-26 08:44:00	Leach attached to mouth
Tissue analysis	White catfish	*Ameiurus catus*	LPR6P-AC012	1	313	na	316	indeterminant	LPR6P-A2	Trotline	2009-08-26 08:44:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR6P-AC016	1	329	na	476	indeterminant	LPR6P-A5	Trotline	2009-08-29 11:11:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR6R-AC008	1	385	na	680	indeterminant	LPR6R-B1	Trotline	2009-08-25 08:25:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR6R-AC009	1	377	na	638	indeterminant	LPR6R-B1	Trotline	2009-08-25 08:25:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR6S-AC010	1	376	na	630	indeterminant	LPR6S-A2	Trotline	2009-08-26 07:55:00	Many leaches attached
Tissue analysis	White catfish	*Ameiurus catus*	LPR6S-AC013	1	400	na	840	indeterminant	LPR6S-B3	Trotline	2009-08-27 07:27:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR7C-AC015	1	50	na	1.5	indeterminant	LPR7C-B3	Minnow Trap	2009-08-27 08:26:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR7N-AC017	1	402	na	756	indeterminant	LPR7N-A5	Trotline	2009-08-29 12:06:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR7P-AC014	1	398	na	984	indeterminant	LPR7P-C3	Trotline	2009-08-27 09:48:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR8Q-AC019	1	402	na	900	indeterminant	LPR8Q-C1	Trotline	2009-09-08 08:04:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR8R-AC020	1	541	na	1504	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR8R-AC021	1	504	na	1366	indeterminant	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Tissue analysis	White catfish	*Ameiurus catus*	LPR8S-AC022	1	358	na	590	indeterminant	LPR8S-A3	Gillnet	2009-09-10 13:02:00	
Tissue analysis	White perch	*Morone americana*	LPR5I-MA200	1	165	na	64	indeterminant			2009-09-18 09:35:00	Missing left eyeball
Tissue analysis	White perch	*Morone americana*	LPR1G-MA138	1	255	na	220	indeterminant	LPR1G-B1	Trotline	2009-09-01 12:59:00	
Tissue analysis	White perch	*Morone americana*	LPR1J-MA139	1	218	na	148	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	White perch	*Morone americana*	LPR1J-MA140	1	197	na	142	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	White perch	*Morone americana*	LPR1J-MA141	1	205	na	128	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Tissue analysis	White perch	*Morone americana*	LPR1J-MA145	1	321	na	544	indeterminant	LPR1J-A2	Gillnet	2009-09-02 15:46:00	
Tissue analysis	White perch	*Morone americana*	LPR1P-MA154	1	56	na	4	indeterminant	LPR1P-B3	Eel Trap	2009-09-03 12:22:00	
Tissue analysis	White perch	*Morone americana*	LPR1Q-MA147	1	54	na	1	indeterminant	LPR1Q-A2	Eel Trap	2009-09-02 13:23:00	
Tissue analysis	White perch	*Morone americana*	LPR1Q-MA150	1	80	na	5	indeterminant	LPR1Q-A2	Eel Trap	2009-09-02 13:23:00	
Tissue analysis	White perch	*Morone americana*	LPR1Q-MA153	1	70	na	6	indeterminant	LPR1Q-B2	Eel Trap	2009-09-02 13:20:00	
Tissue analysis	White perch	*Morone americana*	LPR1Q-MA155	1	44	na	0.9	indeterminant	LPR1Q-B3	Eel Trap	2009-09-03 12:36:00	
Tissue analysis	White perch	*Morone americana*	LPR2B-MA161	1	60	na	3	indeterminant	LPR2B-C5	Minnow Trap	2009-09-05 11:12:00	
Tissue analysis	White perch	*Morone americana*	LPR2C-MA149	1	47	na	0.7	indeterminant	LPR2C-B2	Minnow Trap	2009-09-02 14:18:00	
Tissue analysis	White perch	*Morone americana*	LPR2C-MA151	1	61	na	2	indeterminant	LPR2C-B2	Minnow Trap	2009-09-02 14:18:00	
Tissue analysis	White perch	*Morone americana*	LPR2C-MA163	1	48	na	1	indeterminant	LPR2C-A5	Minnow Trap	2009-09-05 11:40:00	
Tissue analysis	White perch	*Morone americana*	LPR2C-MA164	1	51	na	1	indeterminant	LPR2C-A5	Minnow Trap	2009-09-05 11:40:00	
Tissue analysis	White perch	*Morone americana*	LPR2E-MA142	1	38	na	0.5	indeterminant	LPR2E-B1	Minnow Trap	2009-09-01 10:58:00	
Tissue analysis	White perch	*Morone americana*	LPR2E-MA159	1	44	na	0.7	indeterminant	LPR2E-A4	Minnow Trap	2009-09-04 12:53:00	
Tissue analysis	White perch	*Morone americana*	LPR2H-MA158	1	262	na	272	indeterminant	LPR2H-C4	Trotline	2009-09-04 11:25:00	
Tissue analysis	White perch	*Morone americana*	LPR2I-MA157	1	182	na	90	indeterminant	LPR2I-A4	Gillnet	2009-09-04 10:22:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA143	1	52	na	1.5	indeterminant	LPR2O-C1	Eel Trap	2009-09-01 12:21:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA144	1	71	na	3	indeterminant	LPR2O-C1	Eel Trap	2009-09-01 12:21:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA146	1	38	na	0.2	indeterminant	LPR2O-C2	Eel Trap	2009-09-02 14:09:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA148	1	55	na	1	indeterminant	LPR2O-B2	Eel Trap	2009-09-02 14:06:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA152	1	42	na	0.5	indeterminant	LPR2O-A2	Eel Trap	2009-09-02 14:03:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA156	1	51	na	1.1	indeterminant	LPR2O-C3	Eel Trap	2009-09-03 14:44:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA160	1	65	na	6	indeterminant	LPR2O-B4	Eel Trap	2009-09-04 11:39:00	
Tissue analysis	White perch	*Morone americana*	LPR2O-MA162	1	47	na	1.5	indeterminant	LPR2O-B5	Eel Trap	2009-09-05 11:26:00	
Tissue analysis	White perch	*Morone americana*	LPR3A-MA018	1	74	na	4	indeterminant	LPR3A-C1	Minnow Trap	2009-08-11 13:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR3A-MA091	1	65	na	1	indeterminant	LPR3A-C4	Minnow Trap	2009-08-14 09:14:00	
Tissue analysis	White perch	*Morone americana*	LPR3A-MA093	1	58	na	1	indeterminant	LPR3A-C4	Minnow Trap	2009-08-14 09:14:00	Parasite fell off
Tissue analysis	White perch	*Morone americana*	LPR3A-MA104	1	67	na	4	indeterminant	LPR3A-A5	Minnow Trap	2009-08-15 08:15:00	
Tissue analysis	White perch	*Morone americana*	LPR3A-MA105	1	62	na	4	indeterminant	LPR3A-B5	Minnow Trap	2009-08-15 08:18:00	
Tissue analysis	White perch	*Morone americana*	LPR3A-MA106	1	68	na	4	indeterminant	LPR3A-B5	Minnow Trap	2009-08-15 08:18:00	
Tissue analysis	White perch	*Morone americana*	LPR3B-MA039	1	54	na	1	indeterminant	LPR3B-B3	Minnow Trap	2009-08-13 09:28:00	
Tissue analysis	White perch	*Morone americana*	LPR3B-MA040	1	74	na	6	indeterminant	LPR3B-B3	Minnow Trap	2009-08-13 09:28:00	
Tissue analysis	White perch	*Morone americana*	LPR3C-MA087	1	74	na	6	indeterminant	LPR3C-C4	Minnow Trap	2009-08-14 09:25:00	
Tissue analysis	White perch	*Morone americana*	LPR3C-MA088	1	70	na	4	indeterminant	LPR3C-C4	Minnow Trap	2009-08-14 09:25:00	
Tissue analysis	White perch	*Morone americana*	LPR3C-MA090	1	50	na	1	indeterminant	LPR3C-C4	Minnow Trap	2009-08-14 09:25:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA007	1	180	na	88	indeterminant	LPR3G-A1	Crab Trap	2009-08-11 09:56:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA008	1	140	na	40	indeterminant	LPR3G-B1	Crab Trap	2009-08-11 09:57:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA009	1	176	na	58	indeterminant	LPR3G-C1	Crab Trap	2009-08-11 09:58:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA010	1	162	na	58	indeterminant	LPR3G-C1	Crab Trap	2009-08-11 09:58:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA033	1	68	na	2	indeterminant	LPR3G-C2	Crab Trap	2009-08-12 09:49:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA034	1	202	na	110	indeterminant	LPR3G-B2	Crab Trap	2009-08-12 09:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA035	1	164	na	56	indeterminant	LPR3G-B2	Crab Trap	2009-08-12 09:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA036	1	178	na	76	indeterminant	LPR3G-B2	Crab Trap	2009-08-12 09:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3G-MA038	1	121	na	24	indeterminant	LPR3G-A2	Crab Trap	2009-08-12 09:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3H-MA047	1	77	na	6	indeterminant	LPR3H-A3	Crab Trap	2009-08-13 11:42:00	
Tissue analysis	White perch	*Morone americana*	LPR3I-MA045	1	55	na	1	indeterminant	LPR3I-A3	Eel Trap	2009-08-13 11:23:00	Parasite attached (copepod)
Tissue analysis	White perch	*Morone americana*	LPR3I-MA108	1	60	na	1	indeterminant	LPR3I-B5	Eel Trap	2009-08-15 09:04:00	
Tissue analysis	White perch	*Morone americana*	LPR3I-MA109	1	62	na	4	indeterminant	LPR3I-B5	Eel Trap	2009-08-15 09:04:00	
Tissue analysis	White perch	*Morone americana*	LPR3J-MA042	1	67	na	4	indeterminant	LPR3J-B3	Eel Trap	2009-08-13 10:56:00	
Tissue analysis	White perch	*Morone americana*	LPR3J-MA043	1	71	na	4	indeterminant	LPR3J-B3	Eel Trap	2009-08-13 10:56:00	
Tissue analysis	White perch	*Morone americana*	LPR3J-MA044	1	77	na	6	indeterminant	LPR3J-B3	Eel Trap	2009-08-13 10:56:00	
Tissue analysis	White perch	*Morone americana*	LPR3J-MA063	1	60	na	1	indeterminant	LPR3J-A3	Eel Trap	2009-08-13 10:58:00	
Tissue analysis	White perch	*Morone americana*	LPR3J-MA089	1	58	na	1	indeterminant	LPR3J-C4	Eel Trap	2009-08-14 09:00:00	
Tissue analysis	White perch	*Morone americana*	LPR3K-MA019	1	67	na	3	indeterminant	LPR3K-B2	Eel Trap	2009-08-12 08:53:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA020	1	65	na	2	indeterminant	LPR3K-B2	Eel Trap	2009-08-12 08:53:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA021	1	72	na	7	indeterminant	LPR3K-A2	Eel Trap	2009-08-12 08:51:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA022	1	66	na	2	indeterminant	LPR3K-A2	Eel Trap	2009-08-12 08:51:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA023	1	67	na	4	indeterminant	LPR3K-C2	Eel Trap	2009-08-12 08:55:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA024	1	53	na	2	indeterminant	LPR3K-C2	Eel Trap	2009-08-12 08:55:00	Juvenile
Tissue analysis	White perch	*Morone americana*	LPR3K-MA046	1	75	na	6	indeterminant	LPR3K-C3	Eel Trap	2009-08-13 11:06:00	
Tissue analysis	White perch	*Morone americana*	LPR3K-MA099	1	61	na	4	indeterminant	LPR3K-C5	Eel Trap	2009-08-15 07:04:00	
Tissue analysis	White perch	*Morone americana*	LPR3K-MA100	1	64	na	4	indeterminant	LPR3K-C5	Eel Trap	2009-08-15 07:04:00	
Tissue analysis	White perch	*Morone americana*	LPR3K-MA101	1	65	na	4	indeterminant	LPR3K-A5	Eel Trap	2009-08-15 07:07:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA011	1	158	na	62	indeterminant	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA012	1	160	na	62	indeterminant	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA014	1	160	na	66	indeterminant	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA017	1	182	na	98	indeterminant	LPR3M-A1	Gillnet	2009-08-11 10:08:00	Missing eye
Tissue analysis	White perch	*Morone americana*	LPR3M-MA025	1	163	na	58	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	Damaged opercula likely from gill net
Tissue analysis	White perch	*Morone americana*	LPR3M-MA026	1	108	na	65	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR3M-MA027	1	171	na	62	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA028	1	177	na	78	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	Missing right eye
Tissue analysis	White perch	*Morone americana*	LPR3M-MA029	1	184	na	86	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA030	1	162	na	60	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA031	1	177	na	76	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	Caudal fin partially missing
Tissue analysis	White perch	*Morone americana*	LPR3M-MA032	1	186	na	108	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	White perch	*Morone americana*	LPR3M-MA037	1	198	na	92	indeterminant	LPR3M-A2	Gillnet	2009-08-12 09:24:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA041	1	152	na	54	indeterminant	LPR3N-A3	Gillnet	2009-08-13 10:00:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA092	1	174	na	84	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA095	1	159	na	66	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA096	1	169	na	78	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA097	1	159	na	56	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3N-MA098	1	176	na	78	indeterminant	LPR3N-A4	Gillnet	2009-08-14 07:46:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA001	1	160	na	56	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA002	1	176	na	82	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA003	1	174	na	76	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA004	1	163	na	58	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA005	1	149	na	50	indeterminant	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA048	1	226	na	190	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA049	1	170	na	88	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA050	1	187	na	100	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA052	1	211	na	156	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA053	1	175	na	82	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA054	1	162	na	70	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA055	1	173	na	80	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA056	1	170	na	70	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA057	1	178	na	82	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA058	1	173	na	84	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA059	1	180	na	98	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA060	1	161	na	64	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA061	1	180	na	80	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA062	1	188	na	98	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA064	1	175	na	76	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA065	1	190	na	106	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA066	1	162	na	62	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA067	1	182	na	84	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Eroded caudal fin, damaged left operculum
Tissue analysis	White perch	*Morone americana*	LPR3O-MA068	1	178	na	76	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA069	1	165	na	70	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Erosion of caudal fin; hemorrhaging of ventral surface
Tissue analysis	White perch	*Morone americana*	LPR3O-MA070	1	192	na	110	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA071	1	158	na	62	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA072	1	162	na	60	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA073	1	171	na	80	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR3O-MA074	1	188	na	100	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA075	1	169	na	60	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA076	1	159	na	65	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA077	1	171	na	70	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA078	1	146	na	47	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA079	1	182	na	95	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	Left pectoral fin missing
Tissue analysis	White perch	*Morone americana*	LPR3O-MA080	1	159	na	57	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA081	1	177	na	85	indeterminant	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA082	1	167	na	62	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA083	1	166	na	64	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA084	1	175	na	78	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA085	1	178	na	72	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA086	1	172	na	66	indeterminant	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA102	1	166	na	68	indeterminant	LPR3O-A5	Gillnet	2009-08-15 07:00:00	
Tissue analysis	White perch	*Morone americana*	LPR3O-MA103	1	185	na	92	indeterminant	LPR3O-A5	Gillnet	2009-08-15 07:00:00	Parasite attached
Tissue analysis	White perch	*Morone americana*	LPR4H-MA094	1	136	na	40	indeterminant	LPR4H-B1	Crab Trap	2009-08-14 08:17:00	
Tissue analysis	White perch	*Morone americana*	LPR4H-MA107	1	70	na	4	indeterminant	LPR4H-A2	Crab Trap	2009-08-15 08:20:00	
Tissue analysis	White perch	*Morone americana*	LPR4H-MA113	1	125	na	32	indeterminant	LPR4H-C3	Crab Trap	2009-08-18 08:03:00	
Tissue analysis	White perch	*Morone americana*	LPR4I-MA116	1	43	na	1	indeterminant	LPR4I-C4	Eel Trap	2009-08-19 12:35:00	
Tissue analysis	White perch	*Morone americana*	LPR4L-MA215	1	159	na	58	indeterminant	LPR4L-A9	Gillnet	2009-09-18 13:00:00	
Tissue analysis	White perch	*Morone americana*	LPR4P-MA193	1	183	na	84	indeterminant	LPR4P-A6	Gillnet	2009-09-15 09:23:00	
Tissue analysis	White perch	*Morone americana*	LPR4P-MA199	1	224	na	190	indeterminant	LPR4P-A8	Gillnet	2009-09-17 10:25:00	
Tissue analysis	White perch	*Morone americana*	LPR4R-MA216	1	134	na	34	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	White perch	*Morone americana*	LPR4R-MA217	1	155	na	56	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	White perch	*Morone americana*	LPR4R-MA218	1	138	na	38	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	White perch	*Morone americana*	LPR4R-MA219	1	150	na	48	indeterminant	LPR4R-A1	Boat Electrofishing	2009-09-18 13:19:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA220	1	124	na	30	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA221	1	162	na	78	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA222	1	139	na	38	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA223	1	152	na	62	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA224	1	166	na	66	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA265	1	245	na	182	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA266	1	171	na	74	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	White perch	*Morone americana*	LPR4S-MA267	1	145	na	40	indeterminant	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA225	1	209	na	134	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA226	1	137	na	36	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA227	1	183	na	92	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA228	1	153	na	46	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA229	1	144	na	40	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA230	1	154	na	52	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA231	1	160	na	78	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA232	1	75	na	4	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA249	1	43	na	1	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA261	1	175	na	72	indeterminant	LPR4T-A2	Boat Electrofishing	2009-09-19 12:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA262	1	182	na	88	indeterminant	LPR4T-A2	Boat Electrofishing	2009-09-19 12:10:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR4T-MA263	1	136	na	32	indeterminant	LPR4T-A2	Boat Electrofishing	2009-09-19 12:10:00	
Tissue analysis	White perch	*Morone americana*	LPR4T-MA264	1	227	na	166	indeterminant	LPR4T-A2	Boat Electrofishing	2009-09-19 12:10:00	
Tissue analysis	White perch	*Morone americana*	LPR5A-MA117	1	41	na	0.5	indeterminant	LPR5A-A2	Minnow Trap	2009-08-19 10:29:00	
Tissue analysis	White perch	*Morone americana*	LPR5B-MA118	1	73	na	40	indeterminant	LPR5B-B3	Minnow Trap	2009-08-20 16:25:00	
Tissue analysis	White perch	*Morone americana*	LPR5E-MA197	1	155	na	60	indeterminant	LPR5E-A7	Gillnet	2009-09-17 10:04:00	
Tissue analysis	White perch	*Morone americana*	LPR5E-MA198	1	173	na	72	indeterminant	LPR5E-A7	Gillnet	2009-09-17 10:04:00	Missing right eyeball
Tissue analysis	White perch	*Morone americana*	LPR5E-MA214	1	156	na	52	indeterminant	LPR5E-A8	Gillnet	2009-09-18 11:42:00	
Tissue analysis	White perch	*Morone americana*	LPR5E-MA259	1	176	na	74	indeterminant	LPR5E-A9	Gillnet	2009-09-19 10:40:00	
Tissue analysis	White perch	*Morone americana*	LPR5G-MA110	1	159	na	64	indeterminant	LPR5G-A1	Gillnet	2009-08-18 08:40:00	
Tissue analysis	White perch	*Morone americana*	LPR5I-MA195	1	175	na	62	indeterminant	LPR5I-A4	Gillnet	2009-09-17 09:52:00	Missing right eyeball
Tissue analysis	White perch	*Morone americana*	LPR5I-MA196	1	148	na	66	indeterminant	LPR5I-A4	Gillnet	2009-09-17 09:52:00	Caudal fin eaten
Tissue analysis	White perch	*Morone americana*	LPR5I-MA269	1	172	na	72	indeterminant	LPR5I-A6	Gillnet	2009-09-19 09:05:00	
Tissue analysis	White perch	*Morone americana*	LPR5J-MA112	1	139	na	44	indeterminant	LPR5J-A1	Trotline	2009-08-18 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR5K-MA115	1	61	na	4	indeterminant	LPR5K-B1	Crab Trap	2009-08-18 14:05:00	
Tissue analysis	White perch	*Morone americana*	LPR5L-MA114	1	130	na	30	indeterminant	LPR5L-B1	Eel Trap	2009-08-18 10:13:00	
Tissue analysis	White perch	*Morone americana*	LPR5M-MA111	1	136	na	38	indeterminant	LPR5M-C1	Crab Trap	2009-08-18 09:15:00	
Tissue analysis	White perch	*Morone americana*	LPR5O-MA119	1	139	na	40	indeterminant	LPR5O-B4	Crab Trap	2009-08-21 13:45:00	
Tissue analysis	White perch	*Morone americana*	LPR5Q-MA250	1	140	na	36	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5Q-MA251	1	145	na	41	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5Q-MA252	1	139	na	36	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA201	1	240	na	294	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA202	1	203	na	138	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA203	1	196	na	130	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA204	1	161	na	58	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA205	1	154	na	48	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA206	1	166	na	62	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA207	1	175	na	80	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA208	1	138	na	32	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA209	1	144	na	44	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA210	1	128	na	28	indeterminant	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA253	1	159	na	56	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA254	1	204	na	124	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA255	1	147	na	41	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA256	1	220	na	144	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA257	1	178	na	78	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5R-MA258	1	127	na	26	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Tissue analysis	White perch	*Morone americana*	LPR5S-MA211	1	217	na	132	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	White perch	*Morone americana*	LPR5S-MA212	1	132	na	36	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	White perch	*Morone americana*	LPR5S-MA213	1	135	na	32	indeterminant	LPR5S-A1	Boat Electrofishing	2009-09-18 11:15:00	
Tissue analysis	White perch	*Morone americana*	LPR5S-MA260	1	145	na	46	indeterminant	LPR5S-A2	Boat Electrofishing	2009-09-19 11:00:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA233	1	164	na	72	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA234	1	179	na	80	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA235	1	133	na	42	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA236	1	129	na	28	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA237	1	136	na	46	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR5T-MA238	1	131	na	32	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA239	1	155	na	70	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA240	1	128	na	28	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA241	1	135	na	40	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA242	1	131	na	36	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA243	1	136	na	32	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA244	1	147	na	54	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA245	1	123	na	28	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA246	1	137	na	48	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA247	1	136	na	36	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR5T-MA248	1	118	na	30	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White perch	*Morone americana*	LPR6G-MA129	1	144	na	44	indeterminant	LPR6G-C3	Crab Trap	2009-08-27 07:17:00	
Tissue analysis	White perch	*Morone americana*	LPR6H-MA194	1	135	na	30	indeterminant	LPR6H-B7	Crab Trap	2009-09-16 10:22:00	
Tissue analysis	White perch	*Morone americana*	LPR6H-MA268	1	165	na	58	indeterminant	LPR6H-A10	Crab Trap	2009-09-19 14:37:00	
Tissue analysis	White perch	*Morone americana*	LPR6I-MA134	1	138	na	34	indeterminant	LPR6I-B4	Crayfish Trap	2009-08-28 06:51:00	
Tissue analysis	White perch	*Morone americana*	LPR6L-MA122	1	315	na	630	indeterminant	LPR6L-A1	Gillnet	2009-08-25 09:54:00	
Tissue analysis	White perch	*Morone americana*	LPR6N-MA120	1	242	na	206	indeterminant	LPR6N-A1	Gillnet	2009-08-25 07:30:00	
Tissue analysis	White perch	*Morone americana*	LPR6N-MA131	1	180	na	76	indeterminant	LPR6N-A4	Gillnet	2009-08-28 07:07:00	
Tissue analysis	White perch	*Morone americana*	LPR6Q-MA124	1	153	na	52	indeterminant	LPR6Q-A2	Trotline	2009-08-26 07:11:00	
Tissue analysis	White perch	*Morone americana*	LPR6Q-MA128	1	216	na	136	indeterminant	LPR6Q-B3	Trotline	2009-08-27 06:56:00	
Tissue analysis	White perch	*Morone americana*	LPR6R-MA121	1	260	na	258	indeterminant	LPR6R-A1	Trotline	2009-08-25 08:20:00	
Tissue analysis	White perch	*Morone americana*	LPR6R-MA125	1	181	na	78	indeterminant	LPR6R-C2	Trotline	2009-08-26 08:18:00	
Tissue analysis	White perch	*Morone americana*	LPR6V-MA130	1	147	na	44	indeterminant	LPR6V-A1	Boat Electrofishing	2009-08-27 14:54:00	
Tissue analysis	White perch	*Morone americana*	LPR7G-MA133	1	140	na	36	indeterminant	LPR7G-B4	Crab Trap	2009-08-28 08:53:00	
Tissue analysis	White perch	*Morone americana*	LPR7G-MA135	1	126	na	28	indeterminant	LPR7G-B4	Crab Trap	2009-08-28 08:53:00	
Tissue analysis	White perch	*Morone americana*	LPR7J-MA127	1	170	na	70	indeterminant	LPR7J-C2	Crayfish Trap	2009-08-26 11:26:00	
Tissue analysis	White perch	*Morone americana*	LPR7J-MA137	1	159	na	54	indeterminant	LPR7J-B5	Crayfish Trap	2009-08-29 08:50:00	
Tissue analysis	White perch	*Morone americana*	LPR7K-MA136	1	127	na	32	indeterminant	LPR7K-A5	Crayfish Trap	2009-08-29 07:57:00	
Tissue analysis	White perch	*Morone americana*	LPR7N-MA126	1	156	na	52	indeterminant	LPR7N-B2	Trotline	2009-08-26 10:37:00	
Tissue analysis	White perch	*Morone americana*	LPR7Q-MA123	1	236	na	202	indeterminant	LPR7Q-C1	Trotline	2009-08-25 11:09:00	
Tissue analysis	White perch	*Morone americana*	LPR7Q-MA132	1	150	na	44	indeterminant	LPR7Q-A4	Trotline	2009-08-28 09:06:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA168	1	215	na	130	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA169	1	155	na	52	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA170	1	143	na	44	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA171	1	180	na	82	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA172	1	139	na	38	indeterminant	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Tissue analysis	White perch	*Morone americana*	LPR8U-MA173	1	249	na	159	indeterminant	LPR8U-A4	Boat Electrofishing	2009-09-10 09:30:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA165	1	159	na	54	indeterminant	LPR8V-A1	Boat Electrofishing	2009-09-07 13:15:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA167	1	212	na	128	indeterminant	LPR8V-A4	Boat Electrofishing	2009-09-10 08:38:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA174	1	162	na	58	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA175	1	176	na	72	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA176	1	187	na	92	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA177	1	180	na	80	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA178	1	182	na	70	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA179	1	185	na	80	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Tissue analysis	White perch	*Morone americana*	LPR8V-MA180	1	164	na	52	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA181	1	179	na	82	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA182	1	169	na	60	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA183	1	187	na	86	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA184	1	167	na	60	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA185	1	187	na	86	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA186	1	173	na	62	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA187	1	175	na	70	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA188	1	175	na	70	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA189	1	175	na	70	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA190	1	149	na	42	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA191	1	175	na	66	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8V-MA192	1	162	na	52	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White perch	*Morone americana*	LPR8X-MA166	1	182	na	82	indeterminant	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR4S-WS022	1	325	na	362	indeterminant	LPR4S-A1	Boat Electrofishing	2009-09-18 13:50:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR4T-WS023	1	327	na	434	indeterminant	LPR4T-A1	Boat Electrofishing	2009-09-18 14:10:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR5I-WS019	1	420	na	964	indeterminant	LPR5I-A2	Gillnet	2009-09-15 08:34:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR5T-WS020	1	381	na	700	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR5T-WS021	1	375	na	616	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR5T-WS024	1	350	na	540	indeterminant	LPR5T-A2	Boat Electrofishing	2009-09-19 11:33:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8V-WS006	1	386	na	620	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8V-WS007	1	355	na	456	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8V-WS008	1	400	na	712	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8V-WS009	1	376	na	566	indeterminant	LPR8V-A5	Boat Electrofishing	2009-09-12 09:35:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS013	1	410	na	788	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS014	1	453	na	1032	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS015	1	370	na	600	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS016	1	374	na	610	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS017	1	420	na	888	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8W-WS018	1	345	na	470	indeterminant	LPR8W-A5	Boat Electrofishing	2009-09-12 11:16:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8X-WS010	1	389	na	752	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8X-WS011	1	392	na	696	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Tissue analysis	White sucker	*Catastomus commersoni*	LPR8X-WS012	1	405	na	754	indeterminant	LPR8X-A5	Boat Electrofishing	2009-09-12 10:57:00	
Pathology evaluation	Goby (unspecified)	*unspecified*	LPR1B-GX002	1	45	na	0.5	indeterminant	LPR1B-A2	Minnow Trap	2009-09-02 12:33:00	
Pathology evaluation	Atlantic silverside	*Menidia menidia*	LPR1D-MM001	1	88	na	3.5	indeterminant	LPR1D-C1	Minnow Trap	2009-09-01 12:51:00	
Pathology evaluation	Bluefish	*Pomatomus saltatrix*	LPR1I-PS005	1	345	na	398	male	LPR1I-A1	Gillnet	2009-09-01 12:33:00	
Pathology evaluation	Atlantic menhaden	*Brevoortia tyrannus*	LPR1J-BT008	1	324	na	296	indeterminant	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Pathology evaluation	Hogchoker	*Trinectes maculatus*	LPR1J-TM001	1	114	na	30	female	LPR1J-A1	Gillnet	2009-09-01 13:10:00	
Pathology evaluation	Winter flounder	*Pseudopleuronectes americanu*	LPR1J-WF003	1	159	na	48	female	LPR1J-A4	Gillnet	2009-09-04 12:51:00	
Pathology evaluation	Weakfish	*Cynoscion regalis*	LPR1K-CR001	1	226	na	110	indeterminant	LPR1K-A1	Gillnet	2009-09-01 14:04:00	
Pathology evaluation	Winter flounder	*Pseudopleuronectes americanu*	LPR1K-WF002	1	203	na	92	indeterminant	LPR1K-A4	Gillnet	2009-09-04 09:39:00	
Pathology evaluation	Goby (unspecified)	*unspecified*	LPR1O-GX001	1	59	na	2	indeterminant	LPR1O-B1	Eel Trap	2009-09-01 10:04:00	
Pathology evaluation	Goby (unspecified)	*unspecified*	LPR1O-GX005	1	37	na	0.5	indeterminant	LPR1O-B3	Eel Trap	2009-09-03 11:41:00	
Pathology evaluation	Northern searobin	*Prionotus carolinus*	LPR1O-PC001	1	38	na	0.5	indeterminant	LPR1O-B4	Eel Trap	2009-09-04 10:08:00	
Pathology evaluation	Silver perch	*Bairdiella chrysoura*	LPR1Q-BC001	1	39	na	0.6	indeterminant	LPR1Q-A4	Eel Trap	2009-09-04 10:56:00	

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Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Pathology evaluation	Atlantic silverside	*Menidia menidia*	LPR2C-MM002	1	93	na	6.0	indeterminant	LPR2C-A1	Minnow Trap	2009-09-01 11:51:00	
Pathology evaluation	Goby (unspecified)	*unspecified*	LPR2E-GX004	1	33	na	0.3	indeterminant	LPR2E-A2	Minnow Trap	2009-09-02 15:11:00	
Pathology evaluation	Bluefish	*Pomatomus saltatrix*	LPR2K-PS001	1	370	na	486	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Pathology evaluation	Bluefish	*Pomatomus saltatrix*	LPR2K-PS002	1	335	na	386	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Pathology evaluation	Bluefish	*Pomatomus saltatrix*	LPR2K-PS003	1	360	na	420	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Pathology evaluation	Bluefish	*Pomatomus saltatrix*	LPR2K-PS004	1	345	na	504	male	LPR2K-A1	Gillnet	2009-09-01 11:32:00	
Pathology evaluation	Winter flounder	*Pseudopleuronectes american*	LPR2K-WF001	1	159	na	44	female	LPR2K-A3	Gillnet	2009-09-03 13:13:00	
Pathology evaluation	Goby (unspecified)	*unspecified*	LPR2O-GX003	1	34	na	0.3	indeterminant	LPR2O-B2	Eel Trap	2009-09-02 14:06:00	
Pathology evaluation	Atlantic silverside	*Menidia menidia*	LPR2R-MM003	1	65	na	1.5	indeterminant	LPR2R-A1	Dip Net	2009-09-01 14:57:00	
Pathology evaluation	Atlantic silverside	*Menidia menidia*	LPR2R-MM004	1	87	na	4	female	LPR2R-A1	Dip Net	2009-09-01 14:57:00	
Pathology evaluation	Atlantic silverside	*Menidia menidia*	LPR2R-MM005	1	87	na	4	female	LPR2R-A1	Dip Net	2009-09-01 14:57:00	
Pathology evaluation	White perch	*Morone americana*	LPR3M-MA015	1	155	na	54	male	LPR3M-A1	Gillnet	2009-08-11 10:08:00	
Pathology evaluation	Atlantic menhaden	*Brevoortia tyrannus*	LPR3O-BT002	1	311	na	270	female	LPR3O-A1	Gillnet	2009-08-11 07:21:00	
Pathology evaluation	Atlantic menhaden	*Brevoortia tyrannus*	LPR3O-BT005	1	320	na	285	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Pathology evaluation	Atlantic menhaden	*Brevoortia tyrannus*	LPR3O-BT006	1	340	na	230	male	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Pathology evaluation	Atlantic menhaden	*Brevoortia tyrannus*	LPR3O-BT007	1	330	na	295	female	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Pathology evaluation	Striped bass	*Morone saxatilis*	LPR3O-SB001	1	226	na	100	female	LPR3O-A3	Gillnet	2009-08-13 11:52:00	
Pathology evaluation	Striped bass	*Morone saxatilis*	LPR3O-SB002	1	660	na	2900	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Pathology evaluation	Striped bass	*Morone saxatilis*	LPR3O-SB003	1	216	na	100	male	LPR3O-A4	Gillnet	2009-08-14 08:44:00	
Pathology evaluation	Black crappie	*Pomoxis nigromaculatus*	LPR4S-PN001	1	161	na	59	male	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Pathology evaluation	Black crappie	*Pomoxis nigromaculatus*	LPR4S-PN002	1	134	na	33	male	LPR4S-A2	Boat Electrofishing	2009-09-19 14:24:00	
Pathology evaluation	American eel	*Anguilla rostrata*	LPR5A-AR045	1	325	na	82	indeterminant	LPR5A-A3	Minnow Trap	2009-08-20 14:18:00	
Pathology evaluation	American eel	*Anguilla rostrata*	LPR5A-AR046	1	345	na	84	indeterminant	LPR5A-B3	Minnow Trap	2009-08-20 14:22:00	
Pathology evaluation	American eel	*Anguilla rostrata*	LPR5A-AR047	1	310	na	58	male	LPR5A-B3	Minnow Trap	2009-08-20 14:22:00	
Pathology evaluation	Spottail shiner	*Notropis hudsonius*	LPR5B-NH002	1	100	na	9	male	LPR5B-B5	Minnow Trap	2009-08-22 07:52:00	
Pathology evaluation	Spottail shiner	*Notropis hudsonius*	LPR5P-NH001	1	62	na	2	female	LPR5P-A5	Eel Trap	2009-08-22 07:11:00	
Pathology evaluation	Striped mullet	*Mugil cephalus*	LPR5Q-MC001	1	172	na	59	indeterminant	LPR5Q-A2	Boat Electrofishing	2009-09-19 09:35:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR5R-CC164	1	458	na	2262	male	LPR5R-A1	Boat Electrofishing	2009-09-18 10:35:00	
Pathology evaluation	Gizzard shad	*Dorosoma cepedianum*	LPR5R-DC003	1	160	na	40	indeterminant	LPR5R-A2	Boat Electrofishing	2009-09-19 10:12:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR5T-CC171	1	464	na	1276	indeterminant	LPR5T-A1	Boat Electrofishing	2009-09-18 11:57:00	
Pathology evaluation	Spottail shiner	*Notropis hudsonius*	LPR6C-NH003	1	57	na	1.5	indeterminant	LPR6C-C1	Minnow Trap	2009-08-25 07:40:00	
Pathology evaluation	Black crappie	*Pomoxis nigromaculatus*	LPR6H-PN003	1	152	na	49	female	LPR6H-B10	Crab Trap	2009-09-19 14:43:00	
Pathology evaluation	Pumpkinseed	*Lepomis gibbosus*	LPR6I-LG004	1	129	na	48	female	LPR6I-A4	Crayfish Trap	2009-08-28 06:48:00	
Pathology evaluation	Pumpkinseed	*Lepomis gibbosus*	LPR6J-LG005	1	107	na	24	female	LPR6J-C4	Crayfish Trap	2009-08-28 07:11:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR6L-CC049	1	531	na	2005	male	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Pathology evaluation	Smallmouth bass	*Micropterus dolomieu*	LPR6L-MD005	1	270	na	225	male	LPR6L-A1	Gillnet	2009-08-25 09:54:00	
Pathology evaluation	Smallmouth bass	*Micropterus dolomieu*	LPR6L-MD006	1	312	na	344	female	LPR6L-A2	Gillnet	2009-08-26 09:04:00	
Pathology evaluation	Pumpkinseed	*Lepomis gibbosus*	LPR6M-LG001	1	120	na	34	female	LPR6M-A1	Gillnet	2009-08-25 08:43:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR6N-CC044	1	591	na	2950	male	LPR6N-A2	Gillnet	2009-08-26 07:38:00	
Pathology evaluation	White sucker	*Catastomus commersoni*	LPR6N-WS002	1	355	na	562	male	LPR6N-A5	Gillnet	2009-08-29 07:10:00	
Pathology evaluation	Striped bass	*Morone saxatilis*	LPR6O-SB005	1	313	na	362	female	LPR6O-C3	Trotline	2009-08-27 08:41:00	
Pathology evaluation	Smallmouth bass	*Micropterus dolomieu*	LPR6P-MD004	1	305	na	350	female	LPR6P-C1	Trotline	2009-08-25 09:40:00	
Pathology evaluation	Striped bass	*Morone saxatilis*	LPR6Q-SB004	1	187	na	70	indeterminant	LPR6Q-A2	Trotline	2009-08-26 07:11:00	
Pathology evaluation	Redbreast sunfish	*Lepomis auritus*	LPR7F-LA001	1	158	na	74	indeterminant	LPR7F-C2	Crab Trap	2009-08-26 11:38:00	
Pathology evaluation	Bluegill	*Lepomis macrochirus*	LPR7H-LM001	1	148	na	78	female	LPR7H-A1	Crab Trap	2009-08-25 08:42:00	

Table 1. Summary of all organisms collected, including all specimens retained for tissue analysis or pathology evaluation

Type of data	Species - Common Name	Species - Latin Name	Specimen Collection ID	Count	Length Min (mm)	Length Max (mm)	Weight (g)	Gender	Trap Attempt ID	Collection Method	CollectionDate	Comments
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR7L-CC060	1	539	na	2200	male	LPR7L-A2	Gillnet	2009-08-26 10:18:00	
Pathology evaluation	White sucker	*Catastomus commersoni*	LPR7R-WS001	1	372	na	496	female	LPR7R-A1	Boat Electrofishing	2009-08-27 12:22:00	
Pathology evaluation	Pumpkinseed	*Lepomis gibbosus*	LPR7U-LG002	1	116	na	40	female	LPR7U-A1	Boat Electrofishing	2009-08-27 13:35:00	
Pathology evaluation	Pumpkinseed	*Lepomis gibbosus*	LPR7U-LG003	1	136	na	50	female	LPR7U-A1	Boat Electrofishing	2009-08-27 13:35:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR8R-CC125	1	713	na	4850	female	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Pathology evaluation	Common carp	*Cyprinus carpio*	LPR8R-CC126	1	545	na	2603	female	LPR8R-A1	Gillnet	2009-09-08 08:44:00	
Pathology evaluation	Redbreast sunfish	*Lepomis auritus*	LPR8U-LA005	1	146	na	53	female	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Pathology evaluation	Bluegill	*Lepomis macrochirus*	LPR8U-LM005	1	82	na	9.2	female	LPR8U-A3	Boat Electrofishing	2009-09-09 07:49:00	
Pathology evaluation	American eel	*Anguilla rostrata*	LPR8V-AR176	1	258	na	26	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Pathology evaluation	American eel	*Anguilla rostrata*	LPR8V-AR177	1	241	na	24	indeterminant	LPR8V-A3	Boat Electrofishing	2009-09-09 08:25:00	
Pathology evaluation	Bluegill	*Lepomis macrochirus*	LPR8V-LM002	1	140	na	58	female	LPR8V-A1	Boat Electrofishing	2009-09-07 13:15:00	
Pathology evaluation	Redbreast sunfish	*Lepomis auritus*	LPR8W-LA002	1	147	na	54	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Pathology evaluation	Redbreast sunfish	*Lepomis auritus*	LPR8W-LA003	1	143	na	50	female	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Pathology evaluation	Bluegill	*Lepomis macrochirus*	LPR8W-LM004	1	116	na	28	indeterminant	LPR8W-A2	Boat Electrofishing	2009-09-08 09:48:00	
Pathology evaluation	White sucker	*Catastomus commersoni*	LPR8W-WS003	1	258	na	192	female	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Pathology evaluation	White sucker	*Catastomus commersoni*	LPR8W-WS004	1	409	na	780	female	LPR8W-A1	Boat Electrofishing	2009-09-07 13:50:00	
Pathology evaluation	Bluegill	*Lepomis macrochirus*	LPR8X-LM003	1	101	na	22	female	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Pathology evaluation	Smallmouth bass	*Micropterus dolomieu*	LPR8X-MD007	1	262	na	176	female	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Pathology evaluation	Smallmouth bass	*Micropterus dolomieu*	LPR8X-MD008	1	279	na	266	female	LPR8X-A2	Boat Electrofishing	2009-09-08 10:09:00	
Pathology evaluation	White sucker	*Catastomus commersoni*	LPR8X-WS005	1	418	na	688	female	LPR8X-A1	Boat Electrofishing	2009-09-07 14:00:00	
Pathology evaluation	Redbreast sunfish	*Lepomis auritus*	LPR8Y-LA004	1	101	na	18	indeterminant	LPR8Y-A1	Backpack Electrofishing	2009-09-08 12:32:00	
Pathology evaluation	Satinfin shiner	*Notropis analostanus*	LPR8Z-CA001	1	79	na	4.5	female	LPR8Z-A2	Backpack Electrofishing	2009-09-09 11:25:00	
Pathology evaluation	Satinfin shiner	*Notropis analostanus*	LPR8Z-CA002	1	85	na	6	indeterminant	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Pathology evaluation	Satinfin shiner	*Notropis analostanus*	LPR8Z-CA003	1	85	na	6	female	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Pathology evaluation	Spottail shiner	*Notropis hudsonius*	LPR8Z-NH004	1	93	na	8	male	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	
Pathology evaluation	Spottail shiner	*Notropis hudsonius*	LPR8Z-NH005	1	93	na	7	male	LPR8Z-A5	Backpack Electrofishing	2009-09-11 11:03:00	

na - not applicable

nd - no data were collected

APPENDIX H: CHAIN-OF-CUSTODY FORMS

1 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911212

№ 2715

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02.31
Contact Name: Jennifer Parker
Sampled By: TDo, A Rodriguez, M Luxon, J Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
1	08.11.09	0721	LPR30-CS001	1	Tissue	X							
2	↓	↓	LPR30-CS002	1	↓	X							
3		↓	LPR30-CS003	1		X							
4		0925	LPR3N-CS004	1		X							
5		↓	LPR3N-CS005	1		X							
6		1008	LPR3M-CS006	1		X							
7		↓	LPR3M-CS007	1		X							
8			LPR3M-CS008	1		X							
9			LPR3M-CS009	1		X							
10			LPR3M-CS010	1		X							
11		↓	LPR3M-CS011	1		X							
12	↓	1054	LPR3F-CS012	1	↓	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by: THAI DO	1) Rec'd by: Kevin Hoogeshyde	2) Released by: Kevin Hoogeshyde	2) ~~Rec'd~~ Rel. by: Ron Brady
Print name: THAI DO	Company: Alpha Analytical	Print name: Kevin Hoogeshyde / Ron Brady	Company: Alpha
Signature: [signature]		Signature: Kevin Hoogeshyde	
Company: WINDWARD ENV LLC		Company: Alpha Analytical Alpha	
Date/Time: 08/13/09/1410	Date/Time: 08/13/09 1410	Date/Time: 8/13/09 1545	Date/Time: 8 13-09 1945

* Distribution: White copies accompany shipment; yellow retained by consignor.

[signature] 8/13/09 1945

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911212

№ 2716

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.SB.02.31
Contact Name: Jennifer Parker
Sampled By: T DO, A Rodriguez, M Luxon, J Flores

Ship to: ALPHA ANALYTICAL
Attn: Peter Heriksen
Shipper: Labs pick-up
Form filled out by: T DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: Standard

L0911212

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	08.11.09	1054	LPR3F-CS013	1	Tissue	X							
14	↓	1055	LPR3F-CS014	1	↓	X							
15	↓	1300	LPR3H-CS015	1	↓	X							
16	08.12.09	0924	LPR3M-CS023	1	↓	X							
17	↓	1152	LPR3O-CS035	1	↓	X							
18	↓	0924	LPR3M-CS018	1	↓	X							
19	↓	1152	LPR3O-CS036	1	↓	X							
20	↓	1152	LPR3O-CS034	1	↓	X							
21	↓	0924	LPR3M-CS022	1	↓	X							
22	↓	1152	LPR3O-CS038	1	↓	X							
23	↓	1152	LPR3O-CS039	1	↓	X							
24	↓	1152	LPR3O-CS037	1	↓	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) ~~Rec~~d by:
Print name: THAI DO	Kevin Hoagerhyde	Kevin Hoagerhyde	Rel. Ron Brady
Signature:		Ron Brady	
Company: WINDWARD ENV LLC	Company: Alpha Analytical	Company: Alpha	Company: Alpha
Date/Time: 08.13.09/1410	Date/Time: 08/13/09 1410	Date/Time: 8/13/09 1545	Date/Time: 8-13-09 1945

M. Leclair 8/13/09 1945

* Distribution: White copies accompany shipment; yellow retained by consignor

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911212

3 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2718

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02-31
Contact Name: Jennifer Parker
Sampled By: T.DO, A. Rodriguez, M. Luxon, J. Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-UP
Form filled out by: T.DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
L0911212													
-25	08.12.09	0924	LPR3M-CS027	1	TISSUE	X							
-26		1152	LPR30-CS040	1		X							
-27		0924	LPR3M-CS019	1		X							
-28		0924	LPR3M-CS026	1		X							
-29		0924	LPR3M-CS024	1		X							
-30		0946	LPR3G-CS032	1		X							
-31		0944	LPR3G-CS030	1		X							
-32		0931	LPR3F-CS028	1		X							
-33		1029	LPR3N-CS033	1		X							
-34		0924	LPR3M-CS020	1		X							
-35		0924	LPR3M-CS016	1		X							
-36	↓	0924	LPR3M-CS017	1	↓	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by: THAI DO	1) Rec'd by: Kevin Hoogerhyde	2) Released by: KEVIN Hoogerhyde	2) ~~Rec'd by~~: Rel.
Print name: THAI DO	Print name:	Print name: R. Brady	Ron Brady
Signature:	Company: Alpha Analytical	Signature:	Company: Alpha
Company: WINDWARD ENV LLC	Date/Time: 08/13/09 1410	Company: Alpha	Date/Time: 8-13-09 1945
Date/Time: 08/13/09 1410		Date/Time: 8/13/09 1545	

* Distribution: White copies accompany shipment; yellow retained by consignor. M. Luxon 8/13/09 945

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

20911212

4 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2719

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02.31
Contact Name: Jennifer Parker
Sampled By: T.Do, A. Rodriguez, M. Luxon, J. Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.Do

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
37	08.12.09	0944	LPR3G-CS031	1	Tissue	X							
38	↓	0924	LPR3G-CS021	1	↓	X							
39		0924	LPR3M-CS025	1		X							
40	↓	1001	LPR3H-CS029	1		X							
41	08.11.09	0925	LPR3N-CC001	1		X							
42	↓	0925	LPR3N-CC-002	1		X							
		~~1008~~											~~140~~
43		1108	LPR3L-AC001	1		X							
44	↓	1130	LPR3L-AC002	1		X							
45	08.12.09	0927	LPR3F-AN001	1		X							
46	08.11.09	0746	LPR3P-AR001	1		X							
47	↓	0800	LPR3P-AR002	1	↓	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by: THAI DO	1) Rec'd by: Kevin Hogenyde	2) Released by: Kevin Hogenyde	2) ~~Rec'd by:~~ Rel. Ron Brady
Print name: THAI DO	Print name:	Print name: Ron Brady	
Signature:	Company: Alpha Analytical	Signature:	Company: Alpha
Company: WINDWARD ENV LLC	Date/Time: 08/13/09 1410	Company: Alpha	Date/Time: 8-13-09 1945
Date/Time: 08/13/09 1410		Date/Time: 8/13/09 1545	

* Distribution: White copies accompany shipment; yellow retained by consignor. J. Florer 8/13/09 1945

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911212

5 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2724

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02-31
Contact Name: Jennifer Parker
Sampled By: T.DO, A Rodriguez, M. Luxon, J. Flores

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: Standard

L0911212

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
48	08.11.09	0800	LPR3P-AR003	1	Tissue	X							
49	↓	0850	LPR3Q-AR004	1	↓	X							
50		0913	LPR3Q-AR005	1		X							
51		1108	LPR3L-AR006	1		X							
52		1121	LPR3L-AR007	1		X							
53		1121	LPR3L-AR008	1		X							
54	↓	1130	LPR3L-AR009	1		X							
55	08.12.09	1136	LPR3Q-AR012	1		X							
56	↓	1136	LPR3Q-AR013	1		X							
57		1228	LPR3P-AR014	1		X							
58		1030	LPR3I-AR011	1		X							
59	↓	0900	LPR3L-AR010		↓	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) ~~Rec'd by~~: Rel.
Print name: THAI DO	Kevin Hogerhyde	Kevin Hogerhyde	Ron Brady
Signature:		Print name: Ron Brady	
Company: WILDWARD ENV LLC	Company: Alpha Analytical	Signature:	Company: Alpha
Date/Time: 08/13/09 1410	Date/Time: 08/13/09 1410	Company: Alpha	Date/Time: 8-13-09 1945
		Date/Time: 8/13/09 1545	

* Distribution: White copies accompany shipment; yellow retained by consignor. M. Quelin 8/13/09 1945

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

6 of 9

L09/12/2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2720

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09-58-02-31
Contact Name: Jennifer Parker
Sampled By: T. DO, A Rodriguez, M. Luxon, J. Flower

Ship to: ALPHA ANALYTICAL
Attn: Peter Henrickson
Shipper: Lab pickup
Form filled out by: J. Flower

Shipping Date: 8/13/09
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
L09/12/2													
60	8/11/09	0721	LPR30-MA001	1	Tissue	X							
61		0721	LPR30-MA002	1		X							
62		0721	LPR30-MA003	1		X							
63		0721	LPR30-MA004	1		X							
64		0721	LPR30-MA005	1		X							
65		0956	LPR36-MA007	1		X							
66		0957	LPR36-MA008	1		X							
67		0958	LPR36-MA009	1		X							
68		0958	LPR36-MA010	1		X							
69		1008	LPR3M-MA011	1		X							
70		1008	LPR3M-MA012	1		X							
71		1008	LPR3M-MA014	1	Tissue	X							
	8/11/09	~~1008~~ TPO	**Total Number of Containers**		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) ~~Rec'd~~ by:
Print name: THAI DO	Kevin Hayerhyde	Kevin Hayerhyde	Rod.
Signature:		Print name: Ron Brady	Ron Brady
Company: WINDWARD ENV LLC	Company: Alpha Analytical	Signature:	Company: Alpha
Date/Time: 08/13/09 1410	Date/Time: 08/13/09 1410	Company: Alpha	Date/Time: 8-13-09 1945
		Date/Time: 8/15/09 1545	

* Distribution: White copies accompany shipment; yellow retained by consignor.

T. Do 8/13/09 1945

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911212

7 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2721

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02.31
Contact Name: Jennifer Parker
Sampled By: T.DO, A Rodriquez, M Luxon, J. Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: standard

L0911212

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
72	8/11/09	1008	LPR3M-MA017	1	tissue	X							
73		1008	LPR3M-MA013	1		X							
74		1008	LPR3M-MA015	1		X							
75		1008	LPR3M-MA016	1		X							
76	8/11/09	1310	LPR3A-MA018	1		X							
77	8/12/09	0924	LPR3M-MA025	1		X							
78		0924	LPR3M-MA027	1		X							
79		0855	LPR3K-MA024	1		X							
80		0853	LPR3K-MA020	1		X							
81		0924	LPR3M-MA026	1		X							
82		0949	LPR3G-MA033	1		X							
83	8/12/09	0924	LPR3M-MA030	1	tissue	X							
~~70~~	~~8/12/09~~	~~0944~~	**Total Number of Containers**		Purchase Order / Statement of Work #								

1) Released by: THAI DO	1) Rec'd by: Kevin Hoogerhyde	2) Released by: Kevin Hoogerhyde	~~2) Rec'd by:~~ Rd. Ron Brady
Print name: THAI DO	Company: Alpha Analytical	Print name: Ron Brady	Company: Alpha
Signature: [signature]		Signature:	
Company: WINDWARD ENV LLC		Company: Alpha	
Date/Time: 08/13/09 / 1410	Date/Time: 8/13/09 1410	Date/Time: 8/13/09 1545	Date/Time: 8-13-09 1945

* Distribution: White copies accompany shipment; yellow retained by consignor. [signature] 8/13/09 1945

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Tel: (206) 378-1364
Fax: (206) 217-9343

L0911212

8 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2723

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09-58-02-31
Contact Name: Jennifer Parker
Sampled By: T. DO, A Rodriguez, M Luxon, J Flover

Ship to: Alpha Analytical
Attn: Peter Henriksen
Shipper: lab pick/up
Form filled out by: JMF

Shipping Date: 8/13/09
Airbill Number: N/A
Turnaround requested: Standard

L0911212

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
84	8/12/09	0944	LPR3G-MA038	1	tissue	X							
85		0924	LPR3M-MA028	1		X							
86		0946	LPR3G-MA034	1		X							
87		0924	LPR3M-MA037	1		X							
88		0946	LPR3G-MA035	1		X							
89		0855	LPR3K-MA023	1		X							
90		0924	LPR3M-MA032	1		X							
91		0851	LPR3K-MA022	1		X							
92		0946	LPR3G-MA036	1		X							
93		0924	LPR3M-MA029	1		X							
94		0853	LPR3K-MA019	1		X							
95	8/12/09	0851	LPR3K-MA031	1	tissue	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	~~2) Rec'd by:~~ Rel.
Print name: Thai DO	Kevin Hooger/dy	Kevin Hooger/hyde	Ron Brady
Signature:	Company: Alpha Analytical	Print name: Ron Brady	Company: Alpha
Company: Windward Env. LLC		Signature:	
Date/Time: 8/13/09/1410	Date/Time: 8/13/09 1410	Company: Alpha	Date/Time: 8-13-09 1945
		Date/Time: 8/13/09 1545	

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Fax: (206) 217-9343

L0911212

9 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2725

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09-58-02-31
Contact Name: Jennifer Parker
Sampled By: T.DO, A. Rodriguez, M. Luxon, J. Flower

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.DO

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					Archive							
L0911212-96 8/12/09	0924	LPR3M-MA031	1	Tissue	X							
		Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: THAI DO	Kevin Hogerhyde	Kevin Hogerhyde	Rob. Ram Brady
Signature:	Company: Alpha Analytical	Print name: Ram Brady	Company: Alpha
Company: WINDWARD ENV LLC	Date/Time: 8/13/09 1410	Signature: Ram Brady	Date/Time: 8-13-09
Date/Time: 08/13/09 1410		Company: Alpha	
		Date/Time: 08/13/09 1545	

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911212

Revised 8/13/09

7 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2721

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.58.02.31
Contact Name: Jennifer Parker
Sampled By: T.DO, A Rodriguez, M Luxon, J. Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipping Date: 08/13/09
Shipper: Lab pick-up
Airbill Number: N/A
Form filled out by: T.DO
Turnaround requested: standard

L0911212

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
8/11/09	1008	LPR3M-MA017	1	tissue	X							
-73	1008	LPR3M-MA013	1		X							Samples not
-74	1008	LPR3M-MA015	1		X							included KT
-75	1008	LPR3M-MA016	1		X							
8/11/09	1310	LPR3A-MA018	1		X							
8/12/09	0924	LPR3M-MA025	1		X							
	0924	LPR3M-MA027	1		X							
	0855	LPR3K-MA024	1		X							
	0853	LPR3K-MA020	1		X							
	0924	LPR3M-MA026	1		X							
	0949	LPR3G-MA033	1		X							
8/12/09	0924	LPR3M-MA030	1	tissue	X							
~~8/12/09~~	~~0944~~	Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by: THAI DO	1) Rec'd by: Kevin Hoogvelde	2) Released by:	2) Rec'd by:
Print name: THAI DO		Print name:	
Signature: [signature]	Company: Alpha Analytical	Signature:	Company:
Company: WINDWARD ENV LLC		Company:	
Date/Time: 08/13/09 / 1410	Date/Time: 8/13/09 1410	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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L0911212

Revised 8/13/09

8 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2723

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09-58-02-31
Contact Name: Jennifer Parker
Sampled By: T. DO, A Rodriguez, M Luxon, J Flover

Ship to: Alpha Analytical
Attn: Peter Henriksen
Shipper: lab pick/up
Form filled out by: JMF

Shipping Date: 8/13/09
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
L0911212	8/12/09	0944	LPR3G-MA038	1	tissue	X							
		0924	LPR3M-MA028	1		X							
		0946	LPR3G-MA034	1		X							
		0924	LPR3M-MA037	1		X							
		0946	LPR3G-MA035	1		X							
		0855	LPR3K-MA023	1		X							
		0924	LPR3M-MA032	1		X							
		0851	LPR3K-MA022	1		X							
		0944	LPR3G-MA036	1		X							
		0924	LPR3M-MA029	1		X							
		0853	LPR3K-MA019	1		X							
-95	8/12/09	0851	LPR3K-MA031 21	1	tissue	X							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Thai DO	Kevin Hooge /dy	Print name:	
Signature:	Company: Alpha Analytical	Signature:	Company:
Company: Windward Env LLC		Company:	
Date/Time: 8/13/09/1410	Date/Time: 8/13/09 1410	Date/Time:	Date/Time:

* Distribution: White copies accompany shipment; yellow retained by consignor.

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911212

Revised 8/13/09

4 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 2719

Project/Client Name: Passaic RI/FS Tissue
Project Number: 09.SB.02.31
Contact Name: Jennifer Parker
Sampled By: T.Do, A. Rodriguez, M. Luxon, J. Florer

Ship to: ALPHA ANALYTICAL
Attn: Peter Henriksen
Shipper: Lab pick-up
Form filled out by: T.Do

Shipping Date: 08/13/09
Airbill Number: N/A
Turnaround requested: standard

L0911212

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
08.12.09	0944	LPR3G-CS031	1	Tissue	X						VT	
	0924	~~LPR3G-CS021~~	1		X							→ Sample ID: LPR3M-~~CS02~~ CS021
	0924	LPR3M-CS025	1		X							
	1001	LPR3M-CS029	1		X							
08.11.09	0925	LPR3N-CC001	1		X							
	0925	LPR3N-CC002	1		X							
	1008											
	1108	LPR3L-AC001	1		X							
	1130	LPR3L-AC002	1		X							
08.12.09	0927	LPR3F-AN001	1		X							
08.11.09	0746	LPR3P-AR001	1		X							
	0800	LPR3P-AR002	1		X							
		Total Number of Containers	9		Purchase Order / Statement of Work #							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: THAI DO		Print name:	
Signature:		Signature:	
Company: WINDWARD ENV LLC	Company: Alpha Analytical	Company:	Company:
Date/Time: 08/13/09 / 1410	Date/Time: 08/13/09 1410	Date/Time:	Date/Time:

* Distribution: White copies accompany shipment; yellow retained by consignor.

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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911405

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0813091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	JD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

L0911405

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/13/09	1026	LPR3Q-AC003	1	Tissue	x							
2	8/13/09	1120	LPR3F-CS056	1	Tissue	x							
3	8/13/09	1120	LPR3F-CS057	1	Tissue	x							
4	8/13/09	1127	LPR3G-CS055	1	Tissue	x							
5	8/13/09	1142	LPR3H-CS058	1	Tissue	x							
6	8/13/09	1142	LPR3H-CS059	1	Tissue	x							
7	8/13/09	1142	LPR3H-CS060	1	Tissue	x							
8	8/13/09	1139	LPR3H-CS061	1	Tissue	x							
9	8/13/09	1056	LPR3J-CS054	1	Tissue	x							
10	8/13/09	0940	LPR3M-CS041	1	Tissue	x							
11	8/13/09	0940	LPR3M-CS042	1	Tissue	x							
12	8/13/09	0940	LPR3M-CS043	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	S Woelk	S Woelk	Ron Brady
Signature:			
Company: Windward			Company: Alpha
Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1530	Date/Time: 8-17-09 15-30

* Distribution: White copies accompany shipment; yellow retained by consignor.

Rel. Ron Brady 8-17-09 1610

Wind Ward environmental LLC
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Tel: (206) 378-1364
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Rec. Nathan Averill 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09111405

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical — No. LPR 0813092
Project Number:	09.58.02.31	Attn:	Peter Henriksen — Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up — Airbill Number: N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do — Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	8/13/09	1000	LPR3N-CS044	1	Tissue	x							
14	8/13/09	1000	LPR3N-CS045	1	Tissue	x							
15	8/13/09	1000	LPR3N-CS046	1	Tissue	x							
16	8/13/09	1000	LPR3N-CS047	1	Tissue	x							
17	8/13/09	1000	LPR3N-CS048	1	Tissue	x							
18	8/13/09	1000	LPR3N-CS049	1	Tissue	x							
19	8/13/09	1000	LPR3N-CS050	1	Tissue	x							
20	8/13/09	1000	LPR3N-CS051	1	Tissue	x							
21	8/13/09	1000	LPR3N-CS052	1	Tissue	x							
22	8/13/09	1000	LPR3N-CS053	1	Tissue	x							
23	8/13/09	1152	LPR3O-CS062	1	Tissue	x							
24	8/13/09	1152	LPR3O-CS063	1	Tissue	x							
	Total Number of Containers					Purchase Order / Statement of Work #							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name: Swoelk	Print name: Swoelk	Print name: Ron Brady
Signature:	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

* Distribution: White copies accompany shipment; yellow retained by consignor.

Rec'd. Ron Brady 8-17-09 1610

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Rec. N. Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911405

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0813093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
25	8/13/09	1152	LPR3O-CS064	1	Tissue	x							
26	8/13/09	1152	LPR3O-CS065	1	Tissue	x							
27	8/13/09	1152	LPR3O-CS066	1	Tissue	x							
28	8/13/09	1152	LPR3O-CS067	1	Tissue	x							
29	8/13/09	1152	LPR3O-CS068	1	Tissue	x							
30	8/13/09	1152	LPR3O-CS069	1	Tissue	x							
31	8/13/09	1152	LPR3O-CS070	1	Tissue	x							
32	8/13/09	0928	LPR3B-MA039	1	Tissue	x							
33	8/13/09	0928	LPR3B-MA040	1	Tissue	x							
34	8/13/09	1142	LPR3H-MA047	1	Tissue	x							
35	8/13/09	1123	LPR3I-MA045	1	Tissue	x							
36	8/13/09	1056	LPR3J-MA042	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	S Woelk	S Woelk	Ron Brady
Signature:	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

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Rel. Ron Brady 8-17-05 1610

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Rec Nathan Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911405

4 of 7

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0813094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
37	8/13/09	1056	LPR3J-MA043	1	Tissue	x							
38	8/13/09	1056	LPR3J-MA044	1	Tissue	x							
39	8/13/09	1058	LPR3J-MA063	1	Tissue	x							
40	8/13/09	1106	LPR3K-MA046	1	Tissue	x							
41	8/13/09	1000	LPR3N-MA041	1	Tissue	x							
42	8/13/09	1152	LPR3O-MA048	1	Tissue	x							
43	8/13/09	1152	LPR3O-MA049	1	Tissue	x							
44	8/13/09	1152	LPR3O-MA050	1	Tissue	x							
45	8/13/09	1152	LPR3O-MA052	1	Tissue	x							
46	8/13/09	1152	LPR3O-MA053	1	Tissue	x							
47	8/13/09	1152	LPR3O-MA054	1	Tissue	x							
48	8/13/09	1152	LPR3O-MA055	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Scott K	Print name:	Ron Brady
Signature:	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

* Distribution: White copies accompany shipment; yellow retained by consignor.

Rel. Ron Brady 8-17-09 1610

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Fax: (206) 217-9343

Rec. Nathan Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L091405

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0813095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
49	8/13/09	1152	LPR3O-MA056	1	Tissue	x							
50	8/13/09	1152	LPR3O-MA057	1	Tissue	x							
51	8/13/09	1152	LPR3O-MA058	1	Tissue	x							
52	8/13/09	1152	LPR3O-MA059	1	Tissue	x							
53	8/13/09	1152	LPR3O-MA060	1	Tissue	x							
54	8/13/09	1152	LPR3O-MA061	1	Tissue	x							
55	8/13/09	1152	LPR3O-MA062	1	Tissue	x							
56	8/13/09	1152	LPR3O-MA064	1	Tissue	x							
57	8/13/09	1152	LPR3O-MA065	1	Tissue	x							
58	8/13/09	1152	LPR3O-MA066	1	Tissue	x							
59	8/13/09	1152	LPR3O-MA067	1	Tissue	x							
60	8/13/09	1152	LPR3O-MA068	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name: Smoelke	Print name: Smoelke	Print name: Ron Brady
Signature:	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

* Distribution: White copies accompany shipment; yellow retained by consignor.

Rel. Ron Brady 8-17-09 16:10

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

Rec. Nathan Auclair
N. Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911405

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0813096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
61	8/13/09	1152	LPR3O-MA069	1	Tissue	x							
62	8/13/09	1152	LPR3O-MA070	1	Tissue	x							
63	8/13/09	1152	LPR3O-MA071	1	Tissue	x							
64	8/13/09	1152	LPR3O-MA072	1	Tissue	x							
65	8/13/09	1152	LPR3O-MA073	1	Tissue	x							
66	8/13/09	1152	LPR3O-MA074	1	Tissue	x							
67	8/13/09	1152	LPR3O-MA075	1	Tissue	x							
68	8/13/09	1152	LPR3O-MA076	1	Tissue	x							
69	8/13/09	1152	LPR3O-MA077	1	Tissue	x							
70	8/13/09	1152	LPR3O-MA078	1	Tissue	x							
71	8/13/09	1152	LPR3O-MA079	1	Tissue	x							
72	8/13/09	1152	LPR3O-MA080	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name:	Print name:	Print name: Ron Brady
Signature:	Signature:	Signature:	Signature:
Company: WindWard	Company: Alpha	Company:	Company: Alpha
Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1530	Date/Time: 8-17-09 15:30

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Rel. Ron Brady 8-17-09 16:10

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Seattle, WA 98119
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Fax: (206) 217-9343

Rec. Nathan Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

7 of 7

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911405

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0813097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
73	8/13/09	1152	LPR3O-MA081	1	Tissue	x							
74	8/13/09	1152	LPR3O-MT001	1	Tissue	x							
	Total Number of Containers			74		Purchase Order / Statement of Work #							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name:	Print name:	Print name: Ron Brady
Signature:	Signature:	Signature:	Signature:
Company: Windward	Company: Alpha	Company:	Company: Alpha
Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1530	Date/Time: 8-17-09 15-30

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Rel. Ron Brady 8-17-09 16ID

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Seattle, WA 98119
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Fax: (206) 217-9343

Rec Nathan Auckir 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911406

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical
Project Number:	09.58.02.31	Attn:	Peter Henriksen
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up
Sampled By:	TD, AR	Form filled out by:	Thai Do
		Shipping Date:	No. LPR 0814091
		Airbill Number:	N/A
		Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/14/09	0716	LPR3L-AC004	1	Tissue	x							
2	8/14/09	0904	LPR3P-AC005	1	Tissue	x							
3	8/14/09	0726	LPR3M-CS079	1	Tissue	x							
4	8/14/09	0746	LPR3N-CS080	1	Tissue	x							
5	8/14/09	0746	LPR3N-CS076	1	Tissue	x							
6	8/14/09	0746	LPR3N-CS075	1	Tissue	x							
7	8/14/09	0746	LPR3N-CS078	1	Tissue	x							
8	8/14/09	0817	LPR4H-CS072	1	Tissue	x							
9	8/14/09	0803	LPR4G-CS071	1	Tissue	x							
10	8/14/09	0822	LPR4H-CS074	1	Tissue	x							
11	8/14/09	0852	LPR3G-CS073	1	Tissue	x							
12	8/14/09	0844	LPR3O-CS081	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by: S Woelk	2) Released by: S Woelk	2) Rec'd by:
Print name: Jennifer Parker		Print name:	Ron Brady
Signature:		Signature:	
Company: Windward	Company: Alpha	Company: Alpha	Company: Alpha
Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1405	Date/Time: 8/17/09 1530	Date/Time: 8-17-09 15:30

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Rel. Ron Brady 8-17-09 16:10

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Rec. Nathan Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911406

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0814092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	*Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	8/14/09	0844	LPR3O-CS082	1	Tissue	x							
14	8/14/09	0844	LPR3O-CS083	1	Tissue	x							
15	8/14/09	0844	LPR3O-CS084	1	Tissue	x							
16	8/14/09	0844	LPR3O-CS085	1	Tissue	x							
17	8/14/09	0844	LPR3O-CS086	1	Tissue	x							
18	8/14/09	0924	LPR3H-CS077	1	Tissue	x							
19	8/14/09	0844	LPR3O-CS087	1	Tissue	x							
20	8/14/09	0844	LPR3O-CS088	1	Tissue	x							
21	8/14/09	0746	LPR3F-AR015	1	Tissue	x							
22	8/14/09	0746	LPR3F-AR016	1	Tissue	x							
23	8/14/09	0757	LPR4J-AR017	1	Tissue	x							
24	8/14/09	0747	LPR4C-AR018	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name: Scoville	Print name: Scoville	Print name: Ron Brady
Signature: J. Windward	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

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Rel. Ron Brady 8-17-09 1610

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Rec. N. Auclair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911406

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0814093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
25	8/14/09	0943	LPR3B-AR019	1	Tissue	x							
26	8/14/09	0746	LPR3N-MA097	1	Tissue	x							
27	8/14/09	0746	LPR3N-MA092	1	Tissue	x							
28	8/14/09	0746	LPR3N-MA095	1	Tissue	x							
29	8/14/09	0746	LPR3N-MA098	1	Tissue	x							
30	8/14/09	0746	LPR3N-MA096	1	Tissue	x							
31	8/14/09	0817	LPR4H-MA094	1	Tissue	x							
32	8/14/09	0914	LPR3A-MA093	1	Tissue	x							
33	8/14/09	0914	LPR3A-MA091	1	Tissue	x							
34	8/14/09	0844	LPR3O-MA082	1	Tissue	x							
35	8/14/09	0844	LPR3O-MA083	1	Tissue	x							
36	8/14/09	0844	LPR3O-MA084	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	Print name: Scott K	Print name: Scott K	Print name: Ron Brady
Signature:	Company: A/LS	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1405	Company:	Date/Time: 8-17-09 15:30
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

* Distribution: White copies accompany shipment; yellow retained by consignor.

Rel. Ron Brady 8-17-09 1610

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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

Rec. N. Auclair 8/17/09 1905
T. Auclair

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911406

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0814094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	TD, AR	Form filled out by:	Thai Do	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
37	8/14/09	0844	LPR3O-MA085	1	Tissue	x							
38	8/14/09	0844	LPR3O-MA086	1	Tissue	x							
39	8/14/09	0925	LPR3C-MA088	1	Tissue	x							
40	8/14/09	0925	LPR3C-MA090	1	Tissue	x							
41	8/14/09	0925	LPR3C-MA087	1	Tissue	x							
42	8/14/09	0900	LPR3J-MA089	1	Tissue	x							
	Total Number of Containers			42	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Jennifer Parker	S Wolfe	S Wolfe	Ron Brady
Signature:	Company: Alpha	Signature:	Company: Alpha
Company: Windward	Date/Time: 8/17/09 1905	Company:	Date/Time: 8-17-09 1530
Date/Time: 8/17/09 1405		Date/Time: 8/17/09 1530	

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Rec. Ron Brady 8-17-09 1610

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Rec N. Avelair 8/17/09 1905

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911651

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical
Project Number:	09.58.02.31	Attn:	Peter Henriksen
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up
Sampled By:	T.Do A.Rodriguez	Form filled out by:	TPD

Shipping Date: No. LPR 0815091
Airbill Number: N/A
Turnaround requested: Standard

L0911651

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/15/2009	8:50	LPR3M-CC004	1	Tissue	x							
2	8/15/2009	8:50	LPR3M-CC005	1	Tissue	x							
3	8/15/2009	7:12	LPR3F-CS089	1	Tissue	x							
4	8/15/2009	7:00	LPR3O-CS090	1	Tissue	x							
5	8/15/2009	7:00	LPR3O-CS091	1	Tissue	x							
6	8/15/2009	7:00	LPR3O-CS092	1	Tissue	x							
7	8/15/2009	7:00	LPR3O-CS093	1	Tissue	x							
8	8/15/2009	7:00	LPR3O-CS094	1	Tissue	x							
9	8/15/2009	7:00	LPR3O-CS095	1	Tissue	x							
10	8/15/2009	7:00	LPR3O-CS096	1	Tissue	x							
11	8/15/2009	7:00	LPR3O-CS097	1	Tissue	x							
12	8/15/2009	7:00	LPR3O-CS098	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Print name: Scott Wells	Print name:	Print name:	Print name:	Print name:
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company: pldrc		Company:	
Date/Time: 8.20.09/0910	Date/Time: 8/20/09 9:10	Date/Time: 8/16 1320	Date/Time: 8/20	Date/Time: 8/20	Date/Time: 8/20/09 14:45

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15 Nathan Auclair 8/20/09 2150

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911651

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical
Project Number:	09.58.02.31	Attn:	Peter Henriksen
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up
Sampled By:	TD AR	Form filled out by:	

Shipping Date: No. LPR 0815092
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	8/15/2009	7:00	LPR3O-CS099	1	Tissue	x							
14	8/15/2009	7:00	LPR3O-CS100	1	Tissue	x							
15	8/15/2009	7:00	LPR3O-CS101	1	Tissue	x							
16	8/15/2009	7:00	LPR3O-CS102	1	Tissue	x							
17	8/15/2009	7:00	LPR3O-CS103	1	Tissue	x							
18	8/15/2009	7:00	LPR3O-CS104	1	Tissue	x							
19	8/15/2009	7:00	LPR3O-CS105	1	Tissue	x							
20	8/15/2009	7:00	LPR3O-CS106	1	Tissue	x							
21	8/15/2009	7:00	LPR3O-CS107	1	Tissue	x							
22	8/15/2009	7:40	LPR4F-CS108	1	Tissue	x							
23	8/15/2009	8:20	LPR3N-CS109	1	Tissue	x							
24	8/15/2009	8:50	LPR3M-CS110	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Print name: S. Woelk	Print name:	Print name:	Print name:	Print name:
Signature:	Signature: Sat Woelk	Signature:	Signature:	Signature:	Signature:
Company: **Windward Environmental**	Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company: Alpha
Date/Time: 8.20.09/0910	Date/Time: 8/20/09 9:10	Date/Time: 8/20 1320	Date/Time: 8/20	Date/Time: 8/20	Date/Time: 8/20/09 18:45

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15

Nathan Auclair
T. Auclair 8/20/09 2150

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911651

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical
Project Number:	09.58.02.31	Attn:	Peter Henriksen
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up
Sampled By:	TD AR	Form filled out by:	TDG

Shipping Date: No. LPR 0815093
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
25	8/15/2009	8:20	LPR3N-CS111	1	Tissue	x							
26	8/15/2009	8:20	LPR3N-CS112	1	Tissue	x							
27	8/15/2009	8:20	LPR3N-CS113	1	Tissue	x							
28	8/15/2009	8:50	LPR3M-CS114	1	Tissue	x							
29	8/15/2009	8:20	LPR3N-CS115	1	Tissue	x							
30	8/15/2009	8:50	LPR3M-CS116	1	Tissue	x							
31	8/15/2009	8:50	LPR3M-CS117	1	Tissue	x							
32	8/15/2009	9:40	LPR3F-CS118	1	Tissue	x							
33	8/15/2009	9:15	LPR3H-CS119	1	Tissue	x							
34	8/15/2009	9:22	LPR3H-CS120	1	Tissue	x							
35	8/15/2009	9:39	LPR3G-CS121	1	Tissue	x							
36	8/15/2009	7:04	LPR3K-MA099	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAN TAO	Print name:	Print name:	Print name:	Print name:	Print name:
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**	Date/Time: 8/20/09 9:10	Company: Alpha	Date/Time: 8/20	Company:	Date/Time: 8/20/09 14:48
Date/Time: 8.20.09/0910		Date/Time: 8/20 1320		Date/Time: 8/20	

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Seattle, WA 98119
Tel: (206) 378-1364
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8/20/09 21:15 Nathan Avelair 8/20/09 2100

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911651

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical
Project Number:	09.58.02.31	Attn:	Peter Henriksen
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up
Sampled By:	TD AR	Form filled out by:	TDO
Shipping Date:	No. LPR 0815094	Airbill Number:	N/A
Turnaround requested:	Standard		

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
37	8/15/2009	7:04	LPR3K-MA100	1	Tissue	x							
38	8/15/2009	7:07	LPR3K-MA101	1	Tissue	x							
39	8/15/2009	7:00	LPR3O-MA102	1	Tissue	x							
40	8/15/2009	7:00	LPR3O-MA103	1	Tissue	x							
41	8/15/2009	8:15	LPR3A-MA104	1	Tissue	x							
42	8/15/2009	8:18	LPR3A-MA105	1	Tissue	x							
43	8/15/2009	8:18	LPR3A-MA106	1	Tissue	x							
44	8/15/2009	8:20	LPR4H-MA107	1	Tissue	x							
45	8/15/2009	9:04	LPR3I-MA108	1	Tissue	x							
46	8/15/2009	9:04	LPR3I-MA109	1	Tissue	x							
				1	Tissue	x							
				1	Tissue	x							
			Total Number of Containers	46	Purchase Order / Statement of Work #								

1) Released by: THAI DO Print name: Signature: Company: **Windward Environmental** Date/Time: 8.20.09/0910	1) Rec'd by: S Woelk Scott Woelk Company: **Alpha Analytical** Date/Time: 8/20/09 9:10	2) Released by: S Woelk Print name: Signature: Company: Alpha Date/Time: 8/20 1320	2) Rec'd by: B P Company: Date/Time: 8/20	3) Released by: B P Print name: Signature: Company: Date/Time: 8/20	3) Rec'd by: Company: Alpha Date/Time: 8/20/09 18:45

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15 Nathan Auclair N. Auclair 8/20/09 2150

1 of 4

L0911655

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0818091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911655

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/18/2009	8:05	LPR5F-AR020	1	Tissue	x							
2	8/18/2009	8:15	LPR5F-AR021	1	Tissue	x							
3	8/18/2009	8:42	LPR4F-AR022	1	Tissue	x							
4	8/18/2009	8:35	LPR4D-AR023	1	Tissue	x							
5	8/18/2009	11:28	LPR4N-AR024	1	Tissue	x							
6	8/18/2009	12:39	LPR4Q-AR025	1	Tissue	x							
7	8/18/2009	12:30	LPR4Q-AR026	1	Tissue	x							
8	8/18/2009	11:19	LPR5P-AR027	1	Tissue	x							
9	8/18/2009	7:43	LPR5E-CC006	1	Tissue	x							
10	8/18/2009	7:43	LPR5E-CC007	1	Tissue	x							
11	8/18/2009	7:43	LPR5E-CC008	1	Tissue	x							
12	8/18/2009	12:01	LPR4P-CC009	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Print name: Scott Voelk	Print name:	Print name:	Print name:	Print name:
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company:
Company: **Windward Environmental**	Date/Time: 8/20/09 9:10	Company: Alpha	Date/Time: 8/20	Company:	Date/Time: 8/20/09 14:45
Date/Time: 8.20.09/0810		Date/Time: 8/20 B20		Date/Time: 8/20	

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15

Nathan Auclair 8/20/09 2150

L0911655

2 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0818092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	8/18/2009	7:43	LPR5E-CS122	1	Tissue	x							
14	8/18/2009	7:43	LPR5E-CS123	1	Tissue	x							
15	8/18/2009	8:40	LPR5G-CS124	1	Tissue	x							
16	8/18/2009	7:59	LPR4H-CS125	1	Tissue	x							
17	8/18/2009	10:35	LPR4L-CS126	1	Tissue	x							
18	8/18/2009	10:35	LPR4L-CS127	1	Tissue	x							
19	8/18/2009	11:41	LPR4O-CS128	1	Tissue	x							
20	8/18/2009	11:41	LPR4O-CS129	1	Tissue	x							
21	8/18/2009	11:41	LPR4O-CS130	1	Tissue	x							
22	8/18/2009	11:41	LPR4O-CS131	1	Tissue	x							
23	8/18/2009	12:01	LPR4P-CS132	1	Tissue	x							
24	8/18/2009	12:01	LPR4P-CS133	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Wolff	Print name:		Print name:	
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**	Date/Time: 8/20/09 9:10	Company:	Date/Time: 8/20	Company:	Date/Time: 8/20/09 14:45
Date/Time: 8.20.09/0910		Date/Time: 8/20 1320		Date/Time: 8/20	

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:45

Nathan Avelair 8/20/09 2150

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L091165J

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0818093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
25	8/18/2009	10:46	LPR4G-CS134	1	Tissue	x							
26	8/18/2009	10:32	LPR4F-CS135	1	Tissue	x							
27	8/18/2009	10:32	LPR4F-CS136	1	Tissue	x							
28	8/18/2009	13:55	LPR4G-CS137	1	Tissue	x							
29	8/18/2009	10:44	LPR4G-CS138	1	Tissue	x							
30	8/18/2009	8:15	LPR5F-IP001	1	Tissue	x							
31	8/18/2009	9:36	LPR5O-IP002	1	Tissue	x							
32	8/18/2009	8:40	LPR5G-MA110	1	Tissue	x							
33	8/18/2009	9:15	LPR5M-MA111	1	Tissue	x							
34	8/18/2009	9:30	LPR5J-MA112	1	Tissue	x							
35	8/18/2009	8:03	LPR4H-MA113	1	Tissue	x							
36	8/18/2009	10:13	LPR5L-MA114	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott WOLF	Print name:		Print name:	
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Company:	
Date/Time: 8/20/09 0910	Date/Time: 8/20/09 9:10	Date/Time: 8/20 1320	Date/Time: 8/20	Date/Time: 8/20	Date/Time: 8/20/09 14:45

* Distribution: White copies accompany shipment; yellow retained by consignor.

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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15

Nathan Averbach 8/20/09 2150

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0911655

4 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0818094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
8/18/2009	14:05	LPR5K-MA115	1	Tissue	x							
Total Number of Containers			37	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Print name: Scott Woelfle	Print name: S Woelfle	Print name: B Pu	Print name: B Pu	Print name:
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**	Date/Time: 8/20/09 9:10	Company: Alpha	Date/Time: 8/20	Company:	Date/Time: 8/20/09 14:15
Date/Time: 8.20.09/0910		Date/Time: 8/20 1320		Date/Time: 8/20	

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

8/20/09 21:15 Nathan Aucker 8/20/09 2150

1 of 2

L0911767

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0819091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911767

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
						Archive							
1	8/19/2009	10:51	LPR5H-AC006	1	Tissue	x							
2	8/19/2009	11:42	LPR4G-AC007	1	Tissue	x							
3	8/19/2009	9:28	LPR5F-AR028	1	Tissue	x							
4	8/19/2009	9:45	LPR5B-AR029	1	Tissue	x							
5	8/19/2009	10:51	LPR5H-AR030	1	Tissue	x							
6	8/19/2009	10:43	LPR5H-AR031	1	Tissue	x							
7	8/19/2009	12:44	LPR4N-AR032	1	Tissue	x							
8	8/19/2009	12:31	LPR4M-AR033	1	Tissue	x							
9	8/19/2009	12:44	LPR4N-AR034	1	Tissue	x							
10	8/19/2009	12:21	LPR4M-AR035	1	Tissue	x							
11	8/19/2009	9:01	LPR5E-CC010	1	Tissue	x							
12	8/19/2009	10:03	LPR5G-CC011	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIGUEZ		Print name:		Print name:	
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company:		Company:	
Date/Time: 8/24/09 1615	Date/Time: 8/24 16:15	Date/Time: 8/24 1715	Date/Time: 8/24 1715	Date/Time: 8/24 1715	Date/Time: 8-24-09 1840

Rel Rec 8-24-09 2115 Rec'd N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

2091767

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0819092
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason Turnaround requested: Standard

2091767

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
13	8/19/2009	10:51	LPR4F-CS139	1	Tissue	x							
14	8/19/2009	12:58	LPR4O-CS140	1	Tissue	x							
15	8/19/2009	13:11	LPR4P-CS141	1	Tissue	x							
16	8/19/2009	13:11	LPR4P-CS142	1	Tissue	x							
17	8/19/2009	12:20	LPR4H-CS143	1	Tissue	x							
18	8/19/2009	10:55	LPR4F-CS144	1	Tissue	x							
19	8/19/2009	12:17	LPR4H-CS150	1	Tissue	x							
20	8/19/2009	12:26	LPR4H-CS151	1	Tissue	x							
21	8/19/2009	10:32	LPR5A-EO001	1	Tissue	x							
22	8/19/2009	8:58	LPR5C-FH001	1	Tissue	x							
23	8/19/2009	12:35	LPR4I-MA116	1	Tissue	x							
24	8/19/2009	10:29	LPR5A-MA117	1	Tissue	x							
	Total Number of Containers			24	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIQUEZ	Company: **Alpha Analytical**	Print name:	Company:	Print name:	Company: Alpha
Signature:	Date/Time: 8/24 16:15	Signature:	Date/Time: 8/24 1715	Signature:	Date/Time: 8-24-09 1840
Company: **Windward Environmental**		Company:		Company:	
Date/Time: 8/24/09 1615		Date/Time: 8/24 1715		Date/Time: 8/24 1715 1840	

Rel Rec Brod 8-24-09 2115 Rec N. Auclair N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

L0911768

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0820091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911768

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/20/2009	11:23	LPR5F-AR036	1	Tissue	x							
2	8/20/2009	12:04	LPR5H-AR037	1	Tissue	x							
3	8/20/2009	11:59	LPR5H-AR038	1	Tissue	x							
4	8/20/2009	12:30	LPR5J-AR039	1	Tissue	x							
5	8/20/2009	12:25	LPR5J-AR040	1	Tissue	x							
6	8/20/2009	13:44	LPR4M-AR041	1	Tissue	x							
7	8/20/2009	13:39	LPR4M-AR042	1	Tissue	x							
8	8/20/2009	14:42	LPR4Q-AR043	1	Tissue	x							
9	8/20/2009	14:42	LPR4Q-AR044	1	Tissue	x							
10	8/20/2009	10:56	LPR5E-CC012	1	Tissue	x							
11	8/20/2009	10:56	LPR5E-CC013	1	Tissue	x							
12	8/20/2009	10:56	LPR5E-CC014	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIGUEZ		Print name: Bruce Rosen		Print name:	
Signature:		Signature:		Signature:	
Company: **Windward Environmental**	Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company: Alpha
Date/Time: 8/24/09 1615	Date/Time: 8/24 1615	Date/Time: 8/24 1715	Date/Time: 8/24 1715	Date/Time: 8/24 1715 (18th)	Date/Time: 8-24- 1840

Rec Ross Brady 8-24-09 2115 Rec N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911768

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0820092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911768

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
13	8/20/2009	10:56	LPR5E-CC015	1	Tissue	x							
14	8/20/2009	11:36	LPR5G-CC016	1	Tissue	x							
15	8/20/2009	14:22	LPR4P-CC017	1	Tissue	x							
16	8/20/2009	11:36	LPR5G-CS145	1	Tissue	x							
17	8/20/2009	11:36	LPR5G-CS146	1	Tissue	x							
18	8/20/2009	11:36	LPR5G-CS147	1	Tissue	x							
19	8/20/2009	12:20	LPR5J-CS148	1	Tissue	x							
20	8/20/2009	13:19	LPR4L-CS149	1	Tissue	x							
21	8/20/2009	16:29	LPR5M-CS152	1	Tissue	x							
22	8/20/2009	13:03	LPR4G-CS153	1	Tissue	x							
23	8/20/2009	13:06	LPR4G-CS154	1	Tissue	x							
24	8/20/2009	12:16	LPR4F-CS155	1	Tissue	x							
			Total Number of Containers		Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIQUEZ	B Pr	B Pr	S Wolk	S Wolk	Ron Brady
Signature: [signature]	Company: **Alpha Analytical**	Print name:	Company:	Print name:	Company: Alpha
Company: **Windward Environmental**		Signature:		Signature:	
		Company:		Company:	
Date/Time: 8/24/09 1615	Date/Time: 8/24 16:15	Date/Time: 8/24 1715	Date/Time: 8/24 1715	Date/Time: 8/24 ~~1715~~ 18:40	Date/Time: 8/24-09 18:40

Rel: Ron Brady 8-24-09 21:15 Rec. N. Auclair N. Auclair 8/24/09 2138

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 3

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0911768

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0820093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L09 1768

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
25	8/20/2009	13:03	LPR4G-CS156	1	Tissue	x							
26	8/20/2009	16:33	LPR5M-CS157	1	Tissue	x							
27	8/20/2009	12:11	LPR4F-CS158	1	Tissue	x							
28	8/20/2009	12:16	LPR4F-CS159	1	Tissue	x							
29	8/20/2009	16:25	LPR5B-MA118	1	Tissue	x							
	Total Number of Containers			29	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIGUEZ	B Pa	B Pa	Scott/k	Scott/k	R Brady
Signature:					
Company: **Windward Environmental**	Company: **Alpha Analytical**	Company:	Company:	Company:	Company: Alpha
Date/Time: 8/24/09 1615	Date/Time: 8/24 16:15	Date/Time: 8/24 17:15	Date/Time: 8/24 17:15	Date/Time: 8/24 1745 1840	Date/Time: 8-24-09 1840

Rel. Ron Brady 8-24-09 2115 Rec'd N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

1 of 1

L0911769

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0821091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911769

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/21/2009	12:09	LPR5F-AR048	1	Tissue	x							
2	8/21/2009	11:56	LPR5F-AR049	1	Tissue	x							
3	8/21/2009	14:42	LPR4N-AR050	1	Tissue	x							
4	8/21/2009	11:50	LPR5A-AR051	1	Tissue	x							
5	8/21/2009	11:50	LPR5A-AR052	1	Tissue	x							
6	8/21/2009	12:35	LPR5B-AR053	1	Tissue	x							
7	8/21/2009	13:46	LPR5O-CS160	1	Tissue	x							
8	8/21/2009	12:55	LPR5M-CS161	1	Tissue	x							
9	8/21/2009	13:45	LPR5O-MA119	1	Tissue	x							
			Total Number of Containers	9	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIGUEZ		Print name:	Print name:	Print name:	
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company:		Company:	
Date/Time: 8/24/09 1615	Date/Time: 8/24 16:15	Date/Time: 8/24	Date/Time:	Date/Time:	Date/Time: 8-24-05 1840

Rel. Ron Bandy 8-24-05 2115 Rec. N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Suite 401
Seattle, WA 98119
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Fax: (206) 217-9343

1 of 2

L0911770

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0822091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
1	8/22/2009	7:23	LPR4L-AR054	1	Tissue	x							
2	8/22/2009	7:53	LPR4M-AR055	1	Tissue	x							
3	8/22/2009	7:53	LPR4M-AR056	1	Tissue	x							
4	8/22/2009	8:13	LPR5A-AR057	1	Tissue	x							
5	8/22/2009	8:19	LPR5A-AR058	1	Tissue	x							
6	8/22/2009	8:19	LPR5A-AR059	1	Tissue	x							
7	8/22/2009	8:17	LPR4N-AR060	1	Tissue	x							
8	8/22/2009	9:17	LPR5H-AR061	1	Tissue	x							
9	8/22/2009	9:22	LPR5H-AR062	1	Tissue	x							
10	8/22/2009	9:48	LPR5J-AR063	1	Tissue	x							
11	8/22/2009	9:44	LPR5J-AR064	1	Tissue	x							
12	8/22/2009	9:03	LPR5E-CC018	1	Tissue	x							
	Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIGUEZ		Print name:		Print name:	
Signature:	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company:
Company: **Windward Environmental**		Company:		Company:	
Date/Time: 8/24/09 1615	Date/Time: 8/24 16.15	Date/Time: 8/24	Date/Time:	Date/Time:	Date/Time: 8-24-09 1840

Reb Rec Brady 8-24-09 2115 Rec. N. Auclair N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC

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Fax: (206) 217-9343

L0911770

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0822092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

L0911770

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive							Comments / Instructions [Jar tag number(s)]
13	8/22/2009	7:23	LPR4L-CS162	1	Tissue	x							
14	8/22/2009	7:23	LPR4L-CS163	1	Tissue	x							
15	8/22/2009	7:17	LPR5O-CS164	1	Tissue	x							
16	8/22/2009	7:17	LPR5O-CS165	1	Tissue	x							
17	8/22/2009	7:39	LPR5M-CS166	1	Tissue	x							
18	8/22/2009	7:22	LPR5O-CS167	1	Tissue	x							
			Total Number of Containers	18	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: ANGELITA RODRIQUEZ		Print name:		Print name:	
Signature: [signature]	Company: **Alpha Analytical**	Signature:	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company:		Company:	
Date/Time: 8/24/09 1615	Date/Time: 8/24 16:15	Date/Time: 8/24	Date/Time:	Date/Time:	Date/Time: 8-24-09 1845

Rel. Ron Brady 8-24-09 21:15 Rec: N. Auclair N. Auclair 8/24/09 2138

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Seattle, WA 98119
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09120 69

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0825091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	8/25/2009	8:25	LPR6R-AC008	1	Tissue	x					
2	8/25/2009	8:25	LPR6R-AC009	1	Tissue	x					Hook in mouth, remove prior to processing
3	8/25/2009	8:10	LPR6S-AN002	1	Tissue	x					Hook in mouth, remove prior to processing
4	8/25/2009	9:25	LPR6P-AR065	1	Tissue	x					Hook in mouth, remove prior to processing
5	8/25/2009	9:48	LPR7E-AR066	1	Tissue	x					
6	8/25/2009	9:46	LPR7E-AR067	1	Tissue	x					
7	8/25/2009	7:13	LPR6B-AR068	1	Tissue	x					
8	8/25/2009	7:30	LPR6N-CC019	1	Tissue	x					
9	8/25/2009	7:30	LPR6N-CC020	1	Tissue	x					
10	8/25/2009	7:30	LPR6N-CC021	1	Tissue	x					
11	8/25/2009	7:30	LPR6N-CC022	1	Tissue	x					
12	8/25/2009	7:30	LPR6N-CC023	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelfle	Scott Woelfle	B Poosen	B Poosen	
Signature:	Company: **Alpha Analytical**	Signature: Scott Woelfle	Company: Alpha	Signature:	Company: Alpha
Company: **Windward Environmental**	Date/Time: 8/31/09 0920	Company: Alpha	Date/Time: 8/31/09 0920	Company:	Date/Time: 8/31/09 1230
Date/Time: 8-31-09/0920		Date/Time: 8/31/09 0920		Date/Time: 8/31/09	

Rel. 8/31/09 1630, 8/31/09 1050

Wind Ward environmental LLC
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912069

2 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0825092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
13	8/25/2009	7:30	LPR6N-CC024	1	Tissue	x					
14	8/25/2009	7:30	LPR6N-CC025	1	Tissue	x					
15	8/25/2009	7:30	LPR6N-CC026	1	Tissue	x					
16	8/25/2009	8:43	LPR6M-CC027	1	Tissue	x					
17	8/25/2009	8:43	LPR6M-CC028	1	Tissue	x					
18	8/25/2009	8:43	LPR6M-CC029	1	Tissue	x					
19	8/25/2009	8:43	LPR6M-CC030	1	Tissue	x					
20	8/25/2009	9:54	LPR6L-CC031	1	Tissue	x					
21	8/25/2009	9:54	LPR6L-CC032	1	Tissue	x					
22	8/25/2009	9:54	LPR6L-CC033	1	Tissue	x					
23	8/25/2009	10:41	LPR7M-CC034	1	Tissue	x					
24	8/25/2009	10:41	LPR7M-CC035	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Voelk	Print name: Scott Voelk	B Pr	B Pr	Wm Pr
Signature: [signature]	Company: **Alpha Analytical**	Signature: Scott Voelk	Company:	Print name: B Pooser	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Signature:	
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0720	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rec'd. Wm Pr 8/31/09 1630
Wm Pr 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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200 West Mercer Street
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Seattle, WA 98119
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Fax: (206) 217-9343

L0912069

3 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0825093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
25	8/25/2009	10:41	LPR7M-CC036	1	Tissue	x					
26	8/25/2009	11:33	LPR7L-CC037	1	Tissue	x					
27	8/25/2009	11:33	LPR7L-CC038	1	Tissue	x					
28	8/25/2009	11:33	LPR7L-CC039	1	Tissue	x					
29	8/25/2009	11:33	LPR7L-CC040	1	Tissue	x					
30	8/25/2009	11:33	LPR7L-CC041	1	Tissue	x					
31	8/25/2009	11:33	LPR7L-CC042	1	Tissue	x					
32	8/25/2009	11:33	LPR7L-CC043	1	Tissue	x					
33	8/25/2009	10:41	LPR7M-CS168	1	Tissue	x					
34	8/25/2009	9:42	LPR7G-CS169	1	Tissue	x					
35	8/25/2009	9:42	LPR7G-CS170	1	Tissue	x					
36	8/25/2009	9:35	LPR7G-CS171	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Pr	B Pr	[signature]
Signature: [signature]	Company: **Alpha Analytical**	Signature: Scott Woelk	Company:	Print name: Brian Pooser	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Signature:	
Date/Time: 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rel. [signature] 8/31/09 1630
[signature] 8/31/09 1830

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

L0912069

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0825094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
37	8/25/2009	9:42	LPR7G-CS172	1	Tissue	x					
38	8/25/2009	9:39	LPR7G-CS173	1	Tissue	x					
39	8/25/2009	9:35	LPR7G-CS174	1	Tissue	x					
40	8/25/2009	9:35	LPR7G-CS175	1	Tissue	x					
41	8/25/2009	9:35	LPR7G-CS176	1	Tissue	x					
42	8/25/2009	9:24	LPR7F-CS177	1	Tissue	x					
43	8/25/2009	9:24	LPR7F-CS178	1	Tissue	x					
44	8/25/2009	9:24	LPR7F-CS179	1	Tissue	x					
45	8/25/2009	9:24	LPR7F-CS180	1	Tissue	x					
46	8/25/2009	9:24	LPR7F-CS181	1	Tissue	x					
47	8/25/2009	10:42	LPR6F-CS182	1	Tissue	x					
48	8/25/2009	7:26	LPR6G-CS183	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Pr	B Pr	[signature]
Signature: [signature]	Company: **Alpha Analytical**	Signature: Scott Woelk	Company:	Print name: B Poosen	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Signature:	
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rel. [signature] 8/31/09 1630
[signature] 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912069

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0825095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriguez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive					Comments / Instructions [Jar tag number(s)]
49	8/25/2009	9:54	LPR6L-EL001	1	Tissue	x					
50	8/25/2009	7:36	LPR6C-EO002	1	Tissue	x					
51	8/25/2009	7:17	LPR6Q-IP003	1	Tissue	x					
52	8/25/2009	7:30	LPR6N-MA120	1	Tissue	x					
53	8/25/2009	8:20	LPR6R-MA121	1	Tissue	x					
54	8/25/2009	9:54	LPR6L-MA122	1	Tissue	x					
55	8/25/2009	11:09	LPR7Q-MA123	1	Tissue	x					
			Total Number of Containers	55	Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Pr	B Pr	[signature]
Signature: [signature]	Company: Alpha Analytical	Signature: Scott Woelk	Company: Alpha	Print name: B POOSER	Company: Alpha
Company: Windward Environmental		Company: Alpha		Signature:	
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rel. [signature] 8/31/09 1630 [signature] 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

L0912071

1 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0826091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	8/26/2009	7:55	LPR6S-AC010	1	Tissue	x					
2	8/26/2009	8:44	LPR6P-AC011	1	Tissue	x					
3	8/26/2009	8:44	LPR6P-AC012	1	Tissue	x					
4	8/26/2009	7:38	LPR6N-CC045	1	Tissue	x					
5	8/26/2009	7:38	LPR6N-CC046	1	Tissue	x					
6	8/26/2009	7:38	LPR6N-CC047	1	Tissue	x					
7	8/26/2009	7:38	LPR6N-CC048	1	Tissue	x					
8	8/26/2009	9:04	LPR6L-CC050	1	Tissue	x					
9	8/26/2009	9:04	LPR6L-CC051	1	Tissue	x					
10	8/26/2009	9:04	LPR6L-CC052	1	Tissue	x					
11	8/26/2009	9:04	LPR6L-CC053	1	Tissue	x					
12	8/26/2009	9:04	LPR6L-CC054	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B [illegible]	B [illegible]	[illegible]
Signature: [illegible]	Company: **Alpha Analytical**	Signature: S Woelk	Company:	Print name: B POOSEE	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Signature:	
Date/Time: 8-31.09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rel. [illegible] 8/31/09 1630
[illegible] 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

L0912071

2 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0826092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
13	8/26/2009	9:36	LPR7M-CC055	1	Tissue	x					
14	8/26/2009	9:36	LPR7M-CC056	1	Tissue	x					
15	8/26/2009	9:36	LPR7M-CC057	1	Tissue	x					
16	8/26/2009	9:36	LPR7M-CC058	1	Tissue	x					
17	8/26/2009	9:36	LPR7M-CC059	1	Tissue	x					
18	8/26/2009	10:18	LPR7L-CC061	1	Tissue	x					
19	8/26/2009	10:18	LPR7L-CC062	1	Tissue	x					
20	8/26/2009	10:18	LPR7L-CC063	1	Tissue	x					
21	8/26/2009	10:18	LPR7L-CS184	1	Tissue	x					
22	8/26/2009	10:18	LPR7L-CS185	1	Tissue	x					
23	8/26/2009	11:38	LPR7F-CS186	1	Tissue	x					
24	8/26/2009	11:38	LPR7F-CS187	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Pr	Print name: B POOSER	Wayne Plumer
Signature: [signature]	Company: **Alpha Analytical**	Signature: S Woelk	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Company:	
Date/Time: 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09	Date/Time: 8/31/09 1230

Rec. Wayne Plumer 8/31/09 1630
Wayne Plumer 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

L0912071

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0826093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
25	8/26/2009	10:47	LPR7G-CS188	1	Tissue	x					
26	8/26/2009	10:47	LPR7G-CS189	1	Tissue	x					
27	8/26/2009	7:43	LPR6G-CS190	1	Tissue	x					
28	8/26/2009	11:34	LPR7I-CS191	1	Tissue	x					
29	8/26/2009	11:14	LPR7G-CS192	1	Tissue	x					
30	8/26/2009	11:11	LPR7G-CS193	1	Tissue	x					
31	8/26/2009	8:58	LPR7H-CS194	1	Tissue	x					
32	8/26/2009	8:58	LPR7H-CS195	1	Tissue	x					
33	8/26/2009	7:12	LPR6F-CS196	1	Tissue	x					
34	8/26/2009	7:12	LPR6F-CS197	1	Tissue	x					
35	8/26/2009	7:12	LPR6F-CS198	1	Tissue	x					
36	8/26/2009	7:17	LPR6F-CS199	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Po	Print name: B POOSER	Wayne Pham
Signature: [signature]	Company: **Alpha Analytical**	Signature: S Woelk	Company:	Signature:	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Company:	
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09	Date/Time: 8/31/09 1230

Rec. Wayne Pham 8/31/09 1630
Wayne Pham 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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Tel: (206) 378-1364
Fax: (206) 217-9343

L0912071

4 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0826094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
37	8/26/2009	8:25	LPR6K-CS200	1	Tissue	x					
38	8/26/2009	7:49	LPR6J-EO003	1	Tissue	x					
39	8/26/2009	8:50	LPR7K-EO004	1	Tissue	x					
40	8/26/2009	8:29	LPR6M-IP004	1	Tissue	x					
41	8/26/2009	10:18	LPR7L-IP005	1	Tissue	x					
42	8/26/2009	7:11	LPR6Q-MA124	1	Tissue	x					
43	8/26/2009	8:18	LPR6R-MA125	1	Tissue	x					
44	8/26/2009	10:37	LPR7N-MA126	1	Tissue	x					
45	8/26/2009	11:26	LPR7J-MA127	1	Tissue	x					
			Total Number of Containers	45	Purchase Order / Statement of Work #						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:	3) Released by:	3) Rec'd by:
Print name: THAI DO	Scott Woelk	Print name: Scott Woelk	B Pr	B Pr	[signature]
Signature: [signature]	Company: **Alpha Analytical**	Signature: S Woelk	Company: Alpha	Print name: B POOSER	Company: Alpha
Company: **Windward Environmental**		Company: Alpha		Signature:	
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Company:	Date/Time: 8/31/09 1230
				Date/Time: 8/31/09	

Rel. [signature] 8/31/09 1630
[signature] 8/31/09 1630

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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200 West Mercer Street
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Seattle, WA 98119
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L09/2072

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	8/27/2009	7:27	LPR6S-AC013	1	Tissue	x					
2	8/27/2009	9:48	LPR7P-AC014	1	Tissue	x					
3	8/27/2009	8:26	LPR7C-AC015	1	Tissue	x					
4	8/27/2009	8:47	LPR6O-AR069	1	Tissue	x					
5	8/27/2009	8:08	LPR7H-AR070	1	Tissue	x					
6	8/27/2009	11:08	LPR7O-AR071	1	Tissue	x					
7	8/27/2009	7:06	LPR6N-CC064	1	Tissue	x					
8	8/27/2009	7:06	LPR6N-CC065	1	Tissue	x					
9	8/27/2009	8:24	LPR6L-CC066	1	Tissue	x					
10	8/27/2009	8:24	LPR6L-CC067	1	Tissue	x					
11	8/27/2009	9:01	LPR7M-CC068	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: ~~8.31.09 0920~~ 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time:	Date/Time: 8/31/09 1630	Date/Time:
~~Rec'd by:~~ Scott Wolfe	**Rec'd by:** B Pan	**Rec'd by:** Wayne Penn	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: ~~8.31.09~~ 9/31/09 920	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09 1830	Date/Time: 8/31/09 1630	Date/Time:

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Seattle, WA 98119
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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 6

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912072

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	8/27/2009	9:01	LPR7M-CC069	1	Tissue	x					
13	8/27/2009	9:01	LPR7M-CC070	1	Tissue	x					
14	8/27/2009	9:01	LPR7M-CC071	1	Tissue	x					
15	8/27/2009	9:01	LPR7M-CC072	1	Tissue	x					
16	8/27/2009	9:01	LPR7M-CC073	1	Tissue	x					
17	8/27/2009	10:24	LPR7L-CC074	1	Tissue	x					
18	8/27/2009	10:24	LPR7L-CC075	1	Tissue	x					
19	8/27/2009	10:24	LPR7L-CC076	1	Tissue	x					
20	8/27/2009	10:24	LPR7L-CC077	1	Tissue	x					
21	8/27/2009	10:24	LPR7L-CC078	1	Tissue	x					
22	8/27/2009	10:24	LPR7L-CC079	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: 8/31/09	Company: Alpha	Company:
Date/Time: ~~8/31/09 0920~~	Date/Time: 8/31/09 0920	Date/Time:	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: ~~Scott Woelke~~	**Rec'd by:** B Pon	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical** 8/31/09	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: ~~8/31/09 0920~~	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912072

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	8/27/2009	10:24	LPR7L-CC080	1	Tissue	x					
24	8/27/2009	10:24	LPR7L-CC081	1	Tissue	x					
25	8/27/2009	10:24	LPR7L-CC082	1	Tissue	x					
26	8/27/2009	7:06	LPR6N-CS201	1	Tissue	x					
27	8/27/2009	7:06	LPR6N-CS202	1	Tissue	x					
28	8/27/2009	7:52	LPR6M-CS203	1	Tissue	x					
29	8/27/2009	9:01	LPR7M-CS204	1	Tissue	x					
30	8/27/2009	8:38	LPR7F-CS205	1	Tissue	x					
31	8/27/2009	7:13	LPR6G-CS206	1	Tissue	x					
32	8/27/2009	7:00	LPR6F-CS207	1	Tissue	x					
33	8/27/2009	7:17	LPR6G-CS208	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: J Woelk	**Rec'd by:** B Pm	**Rec'd by:** W Pm	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8.31.09	Date/Time: 8/31/09 0920	Date/Time: 8/31/09 1830	Date/Time: 8/31/09 1630	Date/Time:

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Seattle, WA 98119
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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912072

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	8/27/2009	8:05	LPR7H-CS209	1	Tissue	x					
35	8/27/2009	8:38	LPR7F-CS210	1	Tissue	x					
36	8/27/2009	6:56	LPR6F-CS211	1	Tissue	x					
37	8/27/2009	8:38	LPR7F-CS212	1	Tissue	x					
38	8/27/2009	7:17	LPR6G-CS213	1	Tissue	x					
39	8/27/2009	8:46	LPR7F-CS214	1	Tissue	x					
40	8/27/2009	7:36	LPR6H-CS215	1	Tissue	x					
41	8/27/2009	8:38	LPR7F-CS216	1	Tissue	x					
42	8/27/2009	8:55	LPR7G-CS217	1	Tissue	x					
43	8/27/2009	7:17	LPR6G-CS218	1	Tissue	x					
44	8/27/2009	6:50	LPR6F-CS219	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Woelk	3) **Released by:** B Pan	4) **Released by:** Wm Pan	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: 8/31/09	Company: Alpha	Company:
Date/Time: 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time: ~~0910~~	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: S Woelk	**Rec'd by:** B Pan	**Rec'd by:** Wm Pan	**Rec'd by:** ALPHA	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 8/31/09 0920	Date/Time: 8/31/09 0910	Date/Time: 8/31/09 1030	Date/Time: 8/31/09 1630	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912072

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	8/27/2009	8:59	LPR7G-CS220	1	Tissue	x					
46	8/27/2009	6:50	LPR6F-CS221	1	Tissue	x					
47	8/27/2009	8:08	LPR7H-CS222	1	Tissue	x					
48	8/27/2009	8:55	LPR7G-CS223	1	Tissue	x					
49	8/27/2009	9:05	LPR7G-CS224	1	Tissue	x					
50	8/27/2009	9:05	LPR7G-CS225	1	Tissue	x					
51	8/27/2009	7:13	LPR6G-CS226	1	Tissue	x					
52	8/27/2009	8:55	LPR7G-CS227	1	Tissue	x					
53	8/27/2009	9:34	LPR7Q-IP006	1	Tissue	x					
54	8/27/2009	6:56	LPR6Q-MA128	1	Tissue	x					
55	8/27/2009	7:17	LPR6G-MA129	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8.31.09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** B Pan	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09 1030	Date/Time: 8/31/09 1630	Date/Time:

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Seattle, WA 98119
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

6 of 6

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912072

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0827096
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
-56	8/27/2009	14:54	LPR6V-MA130	1	Tissue	x					
	Total Number of Containers			56	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8.31.09 0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: Scott Wolk	**Rec'd by:** B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: 8/31/09	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8/31/09 0920	Date/Time: 9:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912073

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0828091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8.31.09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	8/28/2009	7:24	LPR6S-AN003	1	Tissue	x					
2	8/28/2009	8:05	LPR6P-AN004	1	Tissue	x					
3	8/28/2009	8:28	LPR7D-AR072	1	Tissue	x					
4	8/28/2009	7:50	LPR6M-CC083	1	Tissue	x					
5	8/28/2009	8:25	LPR6L-CC084	1	Tissue	x					
6	8/28/2009	8:25	LPR6L-CC085	1	Tissue	x					
7	8/28/2009	8:25	LPR6L-CC086	1	Tissue	x					
8	8/28/2009	9:32	LPR7L-CC087	1	Tissue	x					
9	8/28/2009	9:32	LPR7L-CC088	1	Tissue	x					
10	8/28/2009	9:32	LPR7L-CC089	1	Tissue	x					
11	8/28/2009	9:32	LPR7L-CC090	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Woelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: 4pLg	Company:	Company: Alpha	Company:
Date/Time: 8.31.09 0920	Date/Time: 8/31/09 0940	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: 8/31/09	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8/31/09 0920	Date/Time: 9:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912073

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0828092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	8/28/2009	9:32	LPR7L-CC091	1	Tissue	x					
13	8/28/2009	9:32	LPR7L-CC092	1	Tissue	x					
14	8/28/2009	9:32	LPR7L-CC093	1	Tissue	x					
15	8/28/2009	9:32	LPR7L-CC094	1	Tissue	x					
16	8/28/2009	7:04	LPR6G-CS228	1	Tissue	x					
17	8/28/2009	8:50	LPR7G-CS229	1	Tissue	x					
18	8/28/2009	8:32	LPR7F-CS230	1	Tissue	x					
19	8/28/2009	8:50	LPR7G-CS231	1	Tissue	x					
20	8/28/2009	8:55	LPR7G-CS232	1	Tissue	x					
21	8/28/2009	7:01	LPR6G-CS233	1	Tissue	x					
22	8/28/2009	7:59	LPR7H-CS234	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8-31.09/0930	Date/Time: 8/31/09 0920	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** B Pan	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8/31/09 0920	Date/Time: 8/31/09 9:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912073

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0828093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	8/28/2009	8:41	LPR7I-CS235	1	Tissue	x					
24	8/28/2009	9:05	LPR7J-CS236	1	Tissue	x					
25	8/28/2009	8:36	LPR7F-CS237	1	Tissue	x					
26	8/28/2009	8:32	LPR7F-CS238	1	Tissue	x					
27	8/28/2009	7:04	LPR6G-CS239	1	Tissue	x					
28	8/28/2009	7:27	LPR6H-CS240	1	Tissue	x					
29	8/28/2009	7:11	LPR6J-CS241	1	Tissue	x					
30	8/28/2009	7:51	LPR7K-CS242	1	Tissue	x					
31	8/28/2009	7:24	LPR6S-IP007	1	Tissue	x					
32	8/28/2009	7:07	LPR6N-MA131	1	Tissue	x					
33	8/28/2009	9:06	LPR7Q-MA132	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0920	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: 8/31/09	Company: Alpha	Company:	Company:
Date/Time: 8/31/09 0930	Date/Time: 09:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912073

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0828094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	8-31-09
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	8/28/2009	8:53	LPR7G-MA133	1	Tissue	x					
35	8/28/2009	6:51	LPR6I-MA134	1	Tissue	x					
36	8/28/2009	8:53	LPR7G-MA135	1	Tissue	x					
37	8/28/2009	8:46	LPR7I-OL001	1	Tissue	x					
	Total Number of Containers			37	Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company:	Company: Alpha	Company:
Date/Time: 8-31-09/0920	Date/Time: 8/31/09 0926	Date/Time: 8/31/09	Date/Time: 8/31/09 1630	Date/Time:
Rec'd by: S Wolk	Rec'd by: B Pn 8/31/09	Rec'd by:	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company:	Company: Alpha	Company: ALPHA	Company:
Date/Time: 8/31/09 0930	Date/Time: 9:20	Date/Time: 8/31/09 1230	Date/Time: 8/31/09 1630	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09/2310

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0829091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	8/29/2009	11:11	LPR6P-AC016	1	Tissue	x					Hook in mouth, please remove prior to processing
2	8/29/2009	12:06	LPR7N-AC017	1	Tissue	x					
3	8/29/2009	11:01	LPR6P-AN005	1	Tissue	x					
4	8/29/2009	11:44	LPR7P-AN006	1	Tissue	x					
5	8/29/2009	8:27	LPR6O-AR073	1	Tissue	x					
6	8/29/2009	10:49	LPR6R-AR074	1	Tissue	x					Hook in mouth, please remove prior to processing
7	8/29/2009	8:59	LPR7L-CC095	1	Tissue	x					
8	8/29/2009	7:10	LPR6N-CC096	1	Tissue	x					
9	8/29/2009	7:10	LPR6N-CC097	1	Tissue	x					
10	8/29/2009	7:10	LPR6N-CC098	1	Tissue	x					
11	8/29/2009	7:10	LPR6N-CC099	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:** 12:40	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09123 10

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0829092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	8/29/2009	7:48	LPR6M-CC100	1	Tissue	x					
13	8/29/2009	7:48	LPR6M-CC101	1	Tissue	x					
14	8/29/2009	7:48	LPR6M-CC102	1	Tissue	x					
15	8/29/2009	7:48	LPR6M-CC103	1	Tissue	x					
16	8/29/2009	8:10	LPR6L-CC104	1	Tissue	x					
17	8/29/2009	8:10	LPR6L-CC105	1	Tissue	x					
18	8/29/2009	8:10	LPR6L-CC106	1	Tissue	x					
19	8/29/2009	8:10	LPR6L-CC107	1	Tissue	x					
20	8/29/2009	8:33	LPR7M-CC108	1	Tissue	x					
21	8/29/2009	8:33	LPR7M-CC109	1	Tissue	x					
22	8/29/2009	8:33	LPR7M-CC110	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: CB HA	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912310

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0829093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	8/29/2009	8:33	LPR7M-CC111	1	Tissue	x					
24	8/29/2009	8:33	LPR7M-CC112	1	Tissue	x					
25	8/29/2009	8:59	LPR7L-CC113	1	Tissue	x					
26	8/29/2009	8:59	LPR7L-CC114	1	Tissue	x					
27	8/29/2009	8:59	LPR7L-CC115	1	Tissue	x					
28	8/29/2009	8:59	LPR7L-CC116	1	Tissue	x					
29	8/29/2009	8:59	LPR7L-CC117	1	Tissue	x					
30	8/29/2009	8:59	LPR7L-CC118	1	Tissue	x					
31	8/29/2009	7:10	LPR6N-CS243	1	Tissue	x					
32	8/29/2009	7:10	LPR6N-CS244	1	Tissue	x					
33	8/29/2009	7:32	LPR6H-CS245	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1840	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: 9/3/09 1635	Company:	Company:
Date/Time: 9/8/2 1010	Date/Time: 9/3/09 1840	Date/Time:	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912310

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0829094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	8/29/2009	7:32	LPR6H-CS246	1	Tissue	x					
35	8/29/2009	7:04	LPR6G-CS247	1	Tissue	x					
36	8/29/2009	8:01	LPR7H-CS248	1	Tissue	x					
37	8/29/2009	6:45	LPR6F-CS249	1	Tissue	x					
38	8/29/2009	7:08	LPR6G-CS250	1	Tissue	x					
39	8/29/2009	7:57	LPR7K-CS251	1	Tissue	x					
40	8/29/2009	7:04	LPR6G-CS252	1	Tissue	x					
41	8/29/2009	8:00	LPR7H-CS253	1	Tissue	x					
42	8/29/2009	6:45	LPR6F-CS254	1	Tissue	x					
43	8/29/2009	6:45	LPR6F-CS255	1	Tissue	x					
44	8/29/2009	8:01	LPR7H-CS256	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: AlphaLab	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/10:00	Date/Time: 9/3/09 1040	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/3/09 10/0	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912310

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0829095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	8/29/2009	7:04	LPR6G-CS257	1	Tissue	x					
46	8/29/2009	8:01	LPR7H-CS258	1	Tissue	x					
47	8/29/2009	12:01	LPR7O-CS259	1	Tissue	x					
48	8/29/2009	11:28	LPR7G-CS260	1	Tissue	x					
49	8/29/2009	11:40	LPR7I-CS261	1	Tissue	x					
50	8/29/2009	11:27	LPR7G-CS262	1	Tissue	x					
51	8/29/2009	11:27	LPR7G-CS263	1	Tissue	x					
52	8/29/2009	11:28	LPR7G-CS264	1	Tissue	x					
53	8/29/2009	6:53	LPR6I-EO005	1	Tissue	x					
54	8/29/2009	7:57	LPR7K-MA136	1	Tissue	x					
55	8/29/2009	8:50	LPR7J-MA137	1	Tissue	x					
	Total Number of Containers			55	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L09/2311

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/1/2009	12:55	LPR1G-AR075	1	Tissue	x					
2	9/1/2009	11:02	LPR2E-AR076	1	Tissue	x					
3	9/1/2009	10:02	LPR2I-CS265	1	Tissue	x					
4	9/1/2009	10:02	LPR2I-CS266	1	Tissue	x					
5	9/1/2009	10:02	LPR2I-CS267	1	Tissue	x					
6	9/1/2009	10:02	LPR2I-CS268	1	Tissue	x					
7	9/1/2009	10:02	LPR2I-CS269	1	Tissue	x					
8	9/1/2009	10:02	LPR2I-CS270	1	Tissue	x					
9	9/1/2009	10:02	LPR2I-CS271	1	Tissue	x					
10	9/1/2009	10:02	LPR2I-CS272	1	Tissue	x					
11	9/1/2009	10:02	LPR2I-CS273	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1040	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0901092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/1/2009	10:10	LPR1L-CS274	1	Tissue	x					
13	9/1/2009	10:02	LPR1L-CS275	1	Tissue	x					
14	9/1/2009	11:03	LPR2J-CS276	1	Tissue	x					
15	9/1/2009	11:03	LPR2J-CS277	1	Tissue	x					
16	9/1/2009	11:03	LPR2J-CS278	1	Tissue	x					
17	9/1/2009	11:03	LPR2J-CS279	1	Tissue	x					
18	9/1/2009	11:03	LPR2J-CS280	1	Tissue	x					
19	9/1/2009	11:03	LPR2J-CS281	1	Tissue	x					
20	9/1/2009	11:32	LPR2K-CS282	1	Tissue	x					
21	9/1/2009	11:32	LPR2K-CS283	1	Tissue	x					
22	9/1/2009	11:32	LPR2K-CS284	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: Windward Environmental	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1040	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:
Company: Alpha Analytical	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

Wind Ward environmental LLC
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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/1/2009	11:32	LPR2K-CS285	1	Tissue	x					
24	9/1/2009	11:32	LPR2K-CS286	1	Tissue	x					
25	9/1/2009	11:32	LPR2K-CS287	1	Tissue	x					
26	9/1/2009	11:32	LPR2K-CS288	1	Tissue	x					
27	9/1/2009	11:32	LPR2K-CS289	1	Tissue	x					
28	9/1/2009	11:32	LPR2K-CS290	1	Tissue	x					
29	9/1/2009	11:32	LPR2K-CS291	1	Tissue	x					
30	9/1/2009	11:32	LPR2K-CS292	1	Tissue	x					
31	9/1/2009	11:32	LPR2K-CS293	1	Tissue	x					
32	9/1/2009	11:32	LPR2K-CS294	1	Tissue	x					
33	9/1/2009	11:32	LPR2K-CS295	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** SWoelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1040	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by: SWoelk	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: 9/3/09 1635 ALPHA	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time:	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0901094
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/1/2009	11:32	LPR2K-CS296	1	Tissue	x					
35	9/1/2009	11:32	LPR2K-CS297	1	Tissue	x					
36	9/1/2009	11:32	LPR2K-CS298	1	Tissue	x					
37	9/1/2009	11:32	LPR2K-CS299	1	Tissue	x					
38	9/1/2009	11:32	LPR2K-CS300	1	Tissue	x					
39	9/1/2009	11:32	LPR2K-CS301	1	Tissue	x					
40	9/1/2009	11:32	LPR2K-CS302	1	Tissue	x					
41	9/1/2009	11:32	LPR2K-CS303	1	Tissue	x					
42	9/1/2009	11:32	LPR2K-CS304	1	Tissue	x					
43	9/1/2009	11:32	LPR2K-CS305	1	Tissue	x					
44	9/1/2009	11:32	LPR2K-CS306	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolfe	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by: S Wolfe	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of 12

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/1/2009	11:32	LPR2K-CS307	1	Tissue	x					
46	9/1/2009	11:32	LPR2K-CS308	1	Tissue	x					
47	9/1/2009	11:32	LPR2K-CS309	1	Tissue	x					
48	9/1/2009	11:32	LPR2K-CS310	1	Tissue	x					
49	9/1/2009	11:32	LPR2K-CS311	1	Tissue	x					
50	9/1/2009	11:32	LPR2K-CS312	1	Tissue	x					
51	9/1/2009	11:32	LPR2K-CS313	1	Tissue	x					
52	9/1/2009	12:33	LPR1I-CS314	1	Tissue	x					
53	9/1/2009	12:33	LPR1I-CS315	1	Tissue	x					
54	9/1/2009	12:33	LPR1I-CS316	1	Tissue	x					
55	9/1/2009	12:33	LPR1I-CS317	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/1/2009	12:33	LPR1I-CS318	1	Tissue	x					
57	9/1/2009	12:33	LPR1I-CS319	1	Tissue	x					
58	9/1/2009	12:33	LPR1I-CS320	1	Tissue	x					
59	9/1/2009	12:33	LPR1I-CS321	1	Tissue	x					
60	9/1/2009	12:33	LPR1I-CS322	1	Tissue	x					
61	9/1/2009	12:33	LPR1I-CS323	1	Tissue	x					
62	9/1/2009	12:33	LPR1I-CS324	1	Tissue	x					
63	9/1/2009	12:33	LPR1I-CS325	1	Tissue	x					
64	9/1/2009	12:33	LPR1I-CS326	1	Tissue	x					
65	9/1/2009	12:33	LPR1I-CS327	1	Tissue	x					
66	9/1/2009	12:33	LPR1I-CS328	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Uoe/K	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1040	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by: S Uoe/K	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09123 11

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0901097
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/1/2009	12:33	LPR1I-CS329	1	Tissue	x					
68	9/1/2009	12:33	LPR1I-CS330	1	Tissue	x					
69	9/1/2009	12:33	LPR1I-CS331	1	Tissue	x					
70	9/1/2009	13:10	LPR1J-CS332	1	Tissue	x					
71	9/1/2009	13:10	LPR1J-CS333	1	Tissue	x					
72	9/1/2009	13:10	LPR1J-CS334	1	Tissue	x					
73	9/1/2009	13:10	LPR1J-CS335	1	Tissue	x					
74	9/1/2009	13:10	LPR1J-CS336	1	Tissue	x					
75	9/1/2009	13:10	LPR1J-CS337	1	Tissue	x					
76	9/1/2009	13:10	LPR1J-CS338	1	Tissue	x					
77	9/1/2009	13:10	LPR1J-CS339	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 12.40	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09/2311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/1/2009	13:10	LPR1J-CS340	1	Tissue	x					
79	9/1/2009	13:10	LPR1J-CS341	1	Tissue	x					
80	9/1/2009	13:10	LPR1J-CS342	1	Tissue	x					
81	9/1/2009	13:10	LPR1J-CS343	1	Tissue	x					
82	9/1/2009	13:10	LPR1J-CS344	1	Tissue	x					
83	9/1/2009	13:10	LPR1J-CS345	1	Tissue	x					
84	9/1/2009	13:43	LPR1H-CS346	1	Tissue	x					
85	9/1/2009	14:04	LPR1K-CS347	1	Tissue	x					
86	9/1/2009	14:04	LPR1K-CS348	1	Tissue	x					
87	9/1/2009	14:04	LPR1K-CS349	1	Tissue	x					
88	9/1/2009	14:04	LPR1K-CS350	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0901099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/1/2009	14:04	LPR1K-CS351	1	Tissue	x					
90	9/1/2009	14:04	LPR1K-CS352	1	Tissue	x					
91	9/1/2009	14:04	LPR1K-CS353	1	Tissue	x					
92	9/1/2009	14:04	LPR1K-CS354	1	Tissue	x					
93	9/1/2009	14:04	LPR1K-CS355	1	Tissue	x					
94	9/1/2009	14:04	LPR1K-CS356	1	Tissue	x					
95	9/1/2009	14:04	LPR1K-CS357	1	Tissue	x					
96	9/1/2009	14:04	LPR1K-CS358	1	Tissue	x					
97	9/1/2009	14:04	LPR1K-CS359	1	Tissue	x					
98	9/1/2009	14:04	LPR1K-CS360	1	Tissue	x					
99	9/1/2009	11:16	LPR2N-CS361	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09010910
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/1/2009	12:49	LPR1N-CS362	1	Tissue	x					
101	9/1/2009	11:16	LPR2N-CS363	1	Tissue	x					
102	9/1/2009	12:09	LPR2L-CS364	1	Tissue	x					
103	9/1/2009	11:46	LPR2M-CS365	1	Tissue	x					
104	9/1/2009	11:46	LPR2M-CS366	1	Tissue	x					
105	9/1/2009	11:16	LPR2N-CS367	1	Tissue	x					
106	9/1/2009	11:07	LPR2N-CS368	1	Tissue	x					
107	9/1/2009	11:07	LPR2N-CS369	1	Tissue	x					
108	9/1/2009	11:07	LPR2N-CS370	1	Tissue	x					
109	9/1/2009	11:16	LPR2N-CS371	1	Tissue	x					
110	9/1/2009	11:07	LPR2N-CS372	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09010911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/1/2009	11:07	LPR2N-CS373	1	Tissue	x					
112	9/1/2009	11:12	LPR2N-CS374	1	Tissue	x					
113	9/1/2009	12:12	LPR2L-CS375	1	Tissue	x					
114	9/1/2009	15:25	LPR1R-CS376	1	Tissue	x					
115	9/1/2009	11:07	LPR2N-CS377	1	Tissue	x					
116	9/1/2009	12:49	LPR1N-CS378	1	Tissue	x					
117	9/1/2009	12:56	LPR1N-CS379	1	Tissue	x					
118	9/1/2009	12:09	LPR2L-CS380	1	Tissue	x					
119	9/1/2009	12:59	LPR1G-MA138	1	Tissue	x					
120	9/1/2009	13:10	LPR1J-MA139	1	Tissue	x					
121	9/1/2009	13:10	LPR1J-MA140	1	Tissue	x					
	Total Number of Containers			11		Purchase Order / Statement of Work #					

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 12:40	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/3/09 1016	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1631	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912311

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09010912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/1/2009	13:10	LPR1J-MA141	1	Tissue	x					
123	9/1/2009	10:58	LPR2E-MA142	1	Tissue	x					
124	9/1/2009	12:21	LPR2O-MA143	1	Tissue	x					
125	9/1/2009	12:21	LPR2O-MA144	1	Tissue	x					
	Total Number of Containers			**125**	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolff	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09.03.09/1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:
Rec'd by: S Wolff	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/3/09 1010	Date/Time: 9/3/09 1240	Date/Time: 9/3/09 1635	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/2/2009	14:13	LPR2K-AC018	1	Tissue	x					
2	9/2/2009	15:29	LPR1G-AR077	1	Tissue	x					
3	9/2/2009	14:59	LPR2N-AR078	1	Tissue	x					
4	9/2/2009	12:26	LPR2I-CS381	1	Tissue	x					
5	9/2/2009	12:26	LPR2I-CS382	1	Tissue	x					
6	9/2/2009	12:26	LPR2I-CS383	1	Tissue	x					
7	9/2/2009	12:26	LPR2I-CS384	1	Tissue	x					
8	9/2/2009	13:37	LPR2J-CS385	1	Tissue	x					
9	9/2/2009	13:37	LPR2J-CS386	1	Tissue	x					
10	9/2/2009	13:37	LPR2J-CS387	1	Tissue	x					
11	9/2/2009	13:37	LPR2J-CS388	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** A Pr	**Rec'd by:** N. Mclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/9/09 1330	Date/Time: 9/8/09 16:45	Date/Time: 8/8/09 2010	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/2/2009	13:37	LPR2J-CS389	1	Tissue	x					
13	9/2/2009	13:37	LPR2J-CS390	1	Tissue	x					
14	9/2/2009	13:37	LPR2J-CS391	1	Tissue	x					
15	9/2/2009	14:13	LPR2K-CS392	1	Tissue	x					
16	9/2/2009	14:13	LPR2K-CS393	1	Tissue	x					
17	9/2/2009	14:13	LPR2K-CS394	1	Tissue	x					
18	9/2/2009	14:13	LPR2K-CS395	1	Tissue	x					
19	9/2/2009	14:13	LPR2K-CS396	1	Tissue	x					
20	9/2/2009	14:13	LPR2K-CS397	1	Tissue	x					
21	9/2/2009	14:13	LPR2K-CS398	1	Tissue	x					
22	9/2/2009	14:13	LPR2K-CS399	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:30	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** Alpha 9/9/09	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 16:45	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O.#:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/2/2009	14:13	LPR2K-CS400	1	Tissue	x					
24	9/2/2009	14:13	LPR2K-CS401	1	Tissue	x					
25	9/2/2009	14:13	LPR2K-CS402	1	Tissue	x					
26	9/2/2009	14:13	LPR2K-CS403	1	Tissue	x					
27	9/2/2009	14:13	LPR2K-CS404	1	Tissue	x					
28	9/2/2009	14:13	LPR2K-CS405	1	Tissue	x					
29	9/2/2009	14:13	LPR2K-CS406	1	Tissue	x					
30	9/2/2009	14:13	LPR2K-CS407	1	Tissue	x					
31	9/2/2009	14:13	LPR2K-CS408	1	Tissue	x					
32	9/2/2009	15:02	LPR1I-CS409	1	Tissue	x					
33	9/2/2009	15:02	LPR1I-CS410	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Welle			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 2pm	Date/Time:	Date/Time:
Rec'd by: Scott Welle	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/2/2009	15:02	LPR1I-CS411	1	Tissue	x					
35	9/2/2009	15:02	LPR1I-CS412	1	Tissue	x					
36	9/2/2009	15:02	LPR1I-CS413	1	Tissue	x					
37	9/2/2009	15:02	LPR1I-CS414	1	Tissue	x					
38	9/2/2009	15:02	LPR1I-CS415	1	Tissue	x					
39	9/2/2009	15:02	LPR1I-CS416	1	Tissue	x					
40	9/2/2009	15:02	LPR1I-CS417	1	Tissue	x					
41	9/2/2009	15:02	LPR1I-CS418	1	Tissue	x					
42	9/2/2009	15:02	LPR1I-CS419	1	Tissue	x					
43	9/2/2009	15:02	LPR1I-CS420	1	Tissue	x					
44	9/2/2009	15:02	LPR1I-CS421	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of 12

CHAIN-OF-CUSTODY/TEST REQUEST FORM

20912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0902095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/2/2009	15:02	LPR1I-CS422	1	Tissue	x					
46	9/2/2009	15:02	LPR1I-CS423	1	Tissue	x					
47	9/2/2009	15:02	LPR1I-CS424	1	Tissue	x					
48	9/2/2009	15:02	LPR1I-CS425	1	Tissue	x					
49	9/2/2009	15:02	LPR1I-CS426	1	Tissue	x					
50	9/2/2009	15:02	LPR1I-CS427	1	Tissue	x					
51	9/2/2009	15:02	LPR1I-CS428	1	Tissue	x					
52	9/2/2009	14:32	LPR2M-CS429	1	Tissue	x					
53	9/2/2009	14:24	LPR2M-CS430	1	Tissue	x					
54	9/2/2009	14:57	LPR2N-CS431	1	Tissue	x					
55	9/2/2009	13:18	LPR1N-CS432	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/2/2009	12:18	LPR1L-CS433	1	Tissue	x					
57	9/2/2009	13:51	LPR2L-CS434	1	Tissue	x					
58	9/2/2009	13:51	LPR2L-CS435	1	Tissue	x					
59	9/2/2009	13:51	LPR2L-CS436	1	Tissue	x					
60	9/2/2009	13:18	LPR1N-CS437	1	Tissue	x					
61	9/2/2009	14:27	LPR2M-CS438	1	Tissue	x					
62	9/2/2009	15:46	LPR1J-CS439	1	Tissue	x					
63	9/2/2009	15:46	LPR1J-CS440	1	Tissue	x					
64	9/2/2009	15:46	LPR1J-CS441	1	Tissue	x					
65	9/2/2009	15:46	LPR1J-CS442	1	Tissue	x					
66	9/2/2009	15:46	LPR1J-CS443	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 23:30	Date/Time:	Date/Time:
Rec'd by: Scott Doelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: aecom	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Seattle, WA 98119
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912539

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0902097
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/2/2009	15:46	LPR1J-CS444	1	Tissue	x					
68	9/2/2009	15:46	LPR1J-CS445	1	Tissue	x					
69	9/2/2009	15:46	LPR1J-CS446	1	Tissue	x					
70	9/2/2009	15:46	LPR1J-CS447	1	Tissue	x					
71	9/2/2009	15:46	LPR1J-CS448	1	Tissue	x					
72	9/2/2009	15:46	LPR1J-CS449	1	Tissue	x					
73	9/2/2009	15:46	LPR1J-CS450	1	Tissue	x					
74	9/2/2009	15:46	LPR1J-CS451	1	Tissue	x					
75	9/2/2009	15:46	LPR1J-CS452	1	Tissue	x					
76	9/2/2009	15:46	LPR1J-CS453	1	Tissue	x					
77	9/2/2009	15:46	LPR1J-CS454	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0902098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/2/2009	15:46	LPR1J-CS455	1	Tissue	x					
79	9/2/2009	15:46	LPR1J-CS456	1	Tissue	x					
80	9/2/2009	15:46	LPR1J-CS457	1	Tissue	x					
81	9/2/2009	15:46	LPR1J-CS458	1	Tissue	x					
82	9/2/2009	15:46	LPR1J-CS459	1	Tissue	x					
83	9/2/2009	15:46	LPR1J-CS460	1	Tissue	x					
84	9/2/2009	15:46	LPR1J-CS461	1	Tissue	x					
85	9/2/2009	15:46	LPR1J-CS462	1	Tissue	x					
86	9/2/2009	15:46	LPR1J-CS463	1	Tissue	x					
87	9/2/2009	15:46	LPR1J-CS464	1	Tissue	x					
88	9/2/2009	15:46	LPR1J-CS465	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Wolk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 R5:00	Date/Time:	Date/Time:
Rec'd by: Scott Wolk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1530	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical	No. LPR 0902099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/2/2009	15:46	LPR1J-CS466	1	Tissue	x					
90	9/2/2009	16:33	LPR1K-CS467	1	Tissue	x					
91	9/2/2009	16:33	LPR1K-CS468	1	Tissue	x					
92	9/2/2009	16:33	LPR1K-CS469	1	Tissue	x					
93	9/2/2009	16:33	LPR1K-CS470	1	Tissue	x					
94	9/2/2009	16:33	LPR1K-CS471	1	Tissue	x					
95	9/2/2009	16:33	LPR1K-CS472	1	Tissue	x					
96	9/2/2009	16:33	LPR1K-CS473	1	Tissue	x					
97	9/2/2009	16:33	LPR1K-CS474	1	Tissue	x					
98	9/2/2009	16:33	LPR1K-CS475	1	Tissue	x					
99	9/2/2009	16:33	LPR1K-CS476	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita RA Angelita Rodriquez	Scott Wolk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 2032	Date/Time:	Date/Time:
Rec'd by: Scott Wolk	**Rec'd by:**	**Rec'd by:** N. Sinclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

WindWard environmental LLC
200 West Mercer Street
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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 09020910
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive					Comments / Instructions [Jar tag number(s)]
100	9/2/2009	16:33	LPR1K-CS477	1	Tissue	x					
101	9/2/2009	16:33	LPR1K-CS478	1	Tissue	x					
102	9/2/2009	16:33	LPR1K-CS479	1	Tissue	x					
103	9/2/2009	16:33	LPR1K-CS480	1	Tissue	x					
104	9/2/2009	16:33	LPR1K-CS481	1	Tissue	x					
105	9/2/2009	16:33	LPR1K-CS482	1	Tissue	x					
106	9/2/2009	16:33	LPR1K-CS483	1	Tissue	x					
107	9/2/2009	16:33	LPR1K-CS484	1	Tissue	x					
108	9/2/2009	12:18	LPR1L-CS485	1	Tissue	x					
109	9/2/2009	12:53	LPR1M-CS486	1	Tissue	x					
110	9/2/2009	12:53	LPR1M-CS487	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Angelita Rodriquez ANGELITA RODRIQUEZ	Scott Woelk	9/8/09		
Company: Windward Environmental	Company: Alpha	Company: Alpha 20:00	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time:	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: Alpha Analytical	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09020911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/2/2009	12:53	LPR1M-CS488	1	Tissue	x					
112	9/2/2009	13:26	LPR1N-CS489	1	Tissue	x					
113	9/2/2009	13:26	LPR1N-CS490	1	Tissue	x					
114	9/2/2009	12:08	LPR1L-CS491	1	Tissue	x					
115	9/2/2009	12:49	LPR1M-CS492	1	Tissue	x					
116	9/2/2009	12:49	LPR1M-CS493	1	Tissue	x					
117	9/2/2009	12:49	LPR1M-CS494	1	Tissue	x					
118	9/2/2009	13:31	LPR1N-CS495	1	Tissue	x					
119	9/2/2009	13:31	LPR1N-CS496	1	Tissue	x					
120	9/2/2009	13:57	LPR2L-CS497	1	Tissue	x					
121	9/2/2009	12:08	LPR1L-CS498	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	1650			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Avelair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912539

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09020912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/2/2009	13:57	LPR2L-CS499	1	Tissue	x					
123	9/2/2009	14:27	LPR2M-CS500	1	Tissue	x					
124	9/2/2009	15:46	LPR1J-MA145	1	Tissue	x					
125	9/2/2009	14:09	LPR2O-MA146	1	Tissue	x					
126	9/2/2009	13:23	LPR1Q-MA147	1	Tissue	x					
127	9/2/2009	14:06	LPR2O-MA148	1	Tissue	x					
128	9/2/2009	14:18	LPR2C-MA149	1	Tissue	x					
129	9/2/2009	13:23	LPR1Q-MA150	1	Tissue	x					
130	9/2/2009	14:18	LPR2C-MA151	1	Tissue	x					
131	9/2/2009	14:03	LPR2O-MA152	1	Tissue	x					
132	9/2/2009	13:20	LPR1Q-MA153	1	Tissue	x					
	Total Number of Containers			132	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 23:30	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:** Alpha	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Seattle, WA 98119
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912541

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/3/2009	12:27	LPR2G-AR079	1	Tissue	x					Hook in mouth, please remove prior to processing
2	9/3/2009	14:08	LPR1G-AR080	1	Tissue	x					Hook in mouth, please remove prior to processing
3	9/3/2009	12:37	LPR1Q-AR081	1	Tissue	x					
4	9/3/2009	12:37	LPR1Q-AR082	1	Tissue	x					
5	9/3/2009	12:37	LPR1Q-AR083	1	Tissue	x					
6	9/3/2009	11:10	LPR1K-CS501	1	Tissue	x					
7	9/3/2009	11:10	LPR1K-CS502	1	Tissue	x					
8	9/3/2009	11:10	LPR1K-CS503	1	Tissue	x					
9	9/3/2009	11:10	LPR1K-CS504	1	Tissue	x					
10	9/3/2009	11:10	LPR1K-CS505	1	Tissue	x					
11	9/3/2009	11:10	LPR1K-CS506	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

20912541

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/3/2009	11:10	LPR1K-CS507	1	Tissue	x					
13	9/3/2009	11:10	LPR1K-CS508	1	Tissue	x					
14	9/3/2009	11:10	LPR1K-CS509	1	Tissue	x					
15	9/3/2009	11:10	LPR1K-CS510	1	Tissue	x					
16	9/3/2009	11:10	LPR1K-CS511	1	Tissue	x					
17	9/3/2009	11:10	LPR1K-CS512	1	Tissue	x					
18	9/3/2009	11:10	LPR1K-CS513	1	Tissue	x					
19	9/3/2009	11:10	LPR1K-CS514	1	Tissue	x					
20	9/3/2009	11:10	LPR1K-CS515	1	Tissue	x					
21	9/3/2009	11:10	LPR1K-CS516	1	Tissue	x					
22	9/3/2009	11:10	LPR1K-CS517	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita RQ ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 21:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

3 of 11

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0903093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/3/2009	11:10	LPR1K-CS518	1	Tissue	x					
24	9/3/2009	11:10	LPR1K-CS519	1	Tissue	x					
25	9/3/2009	11:10	LPR1K-CS520	1	Tissue	x					
26	9/3/2009	11:10	LPR1K-CS521	1	Tissue	x					
27	9/3/2009	11:10	LPR1K-CS522	1	Tissue	x					
28	9/3/2009	11:10	LPR1K-CS523	1	Tissue	x					
29	9/3/2009	11:10	LPR1K-CS524	1	Tissue	x					
30	9/3/2009	11:50	LPR2I-CS525	1	Tissue	x					
31	9/3/2009	11:50	LPR2I-CS526	1	Tissue	x					
32	9/3/2009	11:50	LPR2I-CS527	1	Tissue	x					
33	9/3/2009	12:35	LPR2J-CS528	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 2013	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/3/2009	12:35	LPR2J-CS529	1	Tissue	x					
35	9/3/2009	12:35	LPR2J-CS530	1	Tissue	x					
36	9/3/2009	12:35	LPR2J-CS531	1	Tissue	x					
37	9/3/2009	12:35	LPR2J-CS532	1	Tissue	x					
38	9/3/2009	12:35	LPR2J-CS533	1	Tissue	x					
39	9/3/2009	12:35	LPR2J-CS534	1	Tissue	x					
40	9/3/2009	12:35	LPR2J-CS535	1	Tissue	x					
41	9/3/2009	12:35	LPR2J-CS536	1	Tissue	x					
42	9/3/2009	12:35	LPR2J-CS537	1	Tissue	x					
43	9/3/2009	12:35	LPR2J-CS538	1	Tissue	x					
44	9/3/2009	12:35	LPR2J-CS539	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/3/2009	12:35	LPR2J-CS540	1	Tissue	x					
46	9/3/2009	12:35	LPR2J-CS541	1	Tissue	x					
47	9/3/2009	12:35	LPR2J-CS542	1	Tissue	x					
48	9/3/2009	12:07	LPR1M-CS543	1	Tissue	x					
49	9/3/2009	12:42	LPR1N-CS544	1	Tissue	x					
50	9/3/2009	12:03	LPR1M-CS545	1	Tissue	x					
51	9/3/2009	13:13	LPR2K-CS546	1	Tissue	x					
52	9/3/2009	13:13	LPR2K-CS547	1	Tissue	x					
53	9/3/2009	13:13	LPR2K-CS548	1	Tissue	x					
54	9/3/2009	13:13	LPR2K-CS549	1	Tissue	x					
55	9/3/2009	13:13	LPR2K-CS550	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Sinclair	**Rec'd by:**	**Rec'd by:**
Scott Woelk				
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

6 of 11

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/3/2009	13:13	LPR2K-CS551	1	Tissue	x					
57	9/3/2009	13:13	LPR2K-CS552	1	Tissue	x					
58	9/3/2009	13:13	LPR2K-CS553	1	Tissue	x					
59	9/3/2009	13:13	LPR2K-CS554	1	Tissue	x					
60	9/3/2009	12:03	LPR1M-CS555	1	Tissue	x					
61	9/3/2009	12:07	LPR1M-CS556	1	Tissue	x					
62	9/3/2009	11:35	LPR1L-CS557	1	Tissue	x					
63	9/3/2009	12:07	LPR1M-CS558	1	Tissue	x					
64	9/3/2009	11:27	LPR1L-CS559	1	Tissue	x					
65	9/3/2009	12:00	LPR1M-CS560	1	Tissue	x					
66	9/3/2009	12:07	LPR1M-CS561	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16 50	Date/Time: 9/8/09 16:50	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Aulisi	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

Wind Ward environmental LLC

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

7 of 11

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/3/2009	11:27	LPR1L-CS562	1	Tissue	x					
68	9/3/2009	11:35	LPR1L-CS563	1	Tissue	x					
69	9/3/2009	13:52	LPR1I-CS564	1	Tissue	x					
70	9/3/2009	13:52	LPR1I-CS565	1	Tissue	x					
71	9/3/2009	13:52	LPR1I-CS566	1	Tissue	x					
72	9/3/2009	13:52	LPR1I-CS567	1	Tissue	x					
73	9/3/2009	13:52	LPR1I-CS568	1	Tissue	x					
74	9/3/2009	13:52	LPR1I-CS569	1	Tissue	x					
75	9/3/2009	13:52	LPR1I-CS570	1	Tissue	x					
76	9/3/2009	13:52	LPR1I-CS571	1	Tissue	x					
79	9/3/2009	11:27	LPR1L-CS572	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha Lab	Company: Alpha 20:30	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 ~~16:50~~ 28	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Avelair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha Lab	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2091254/

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0903098
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/3/2009	11:27	LPR1L-CS573	1	Tissue	x					
79	9/3/2009	12:00	LPR1M-CS574	1	Tissue	x					
80	9/3/2009	12:07	LPR1M-CS575	1	Tissue	x					
81	9/3/2009	12:03	LPR1M-CS576	1	Tissue	x					
82	9/3/2009	14:23	LPR1J-CS577	1	Tissue	x					
83	9/3/2009	14:23	LPR1J-CS578	1	Tissue	x					
84	9/3/2009	14:23	LPR1J-CS579	1	Tissue	x					
85	9/3/2009	14:23	LPR1J-CS580	1	Tissue	x					
86	9/3/2009	14:23	LPR1J-CS581	1	Tissue	x					
87	9/3/2009	14:23	LPR1J-CS582	1	Tissue	x					
88	9/3/2009	14:23	LPR1J-CS583	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912541

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0903099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/3/2009	14:23	LPR1J-CS584	1	Tissue	x					
90	9/3/2009	14:23	LPR1J-CS585	1	Tissue	x					
91	9/3/2009	14:23	LPR1J-CS586	1	Tissue	x					
92	9/3/2009	14:23	LPR1J-CS587	1	Tissue	x					
93	9/3/2009	14:23	LPR1J-CS588	1	Tissue	x					
94	9/3/2009	14:23	LPR1J-CS589	1	Tissue	x					
95	9/3/2009	14:23	LPR1J-CS590	1	Tissue	x					
96	9/3/2009	14:23	LPR1J-CS591	1	Tissue	x					
97	9/3/2009	14:23	LPR1J-CS592	1	Tissue	x					
98	9/3/2009	14:23	LPR1J-CS593	1	Tissue	x					
99	9/3/2009	14:23	LPR2B-CS594	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Wollk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:
Rec'd by: Scott Wollk	**Rec'd by:**	**Rec'd by:** N. Audair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912541

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09030910	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/3/2009	14:05	LPR2M-CS595	1	Tissue	x					
101	9/3/2009	14:39	LPR2L-CS596	1	Tissue	x					
102	9/3/2009	14:00	LPR2M-CS597	1	Tissue	x					
103	9/3/2009	14:08	LPR2M-CS598	1	Tissue	x					
104	9/3/2009	14:05	LPR2M-CS599	1	Tissue	x					
105	9/3/2009	14:23	LPR2B-CS600	1	Tissue	x					
106	9/3/2009	14:05	LPR2M-CS601	1	Tissue	x					
107	9/3/2009	14:05	LPR2M-CS602	1	Tissue	x					
108	9/3/2009	14:39	LPR2L-CS603	1	Tissue	x					
109	9/3/2009	13:43	LPR2N-CS604	1	Tissue	x					
110	9/3/2009	13:26	LPR2N-CS605	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Angelita Rodriquez	Scott Woelk			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1830	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

11 of 11

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L09125Y1

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09030911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/3/2009	13:13	LPR2K-CS606	1	Tissue	x					
112	9/3/2009	14:23	LPR2B-FH002	1	Tissue	x					
113	9/3/2009	14:23	LPR2B-FH003	1	Tissue	x					
114	9/3/2009	12:22	LPR1P-MA154	1	Tissue	x					
115	9/3/2009	12:36	LPR1Q-MA155	1	Tissue	x					
116	9/3/2009	14:44	LPR2O-MA156	1	Tissue	x					
	Total Number of Containers			**116**	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
ANGELITA RODRIQUEZ	Scott Docke			
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 1650	Date/Time: 9/8/09 20:00	Date/Time:	Date/Time:
Rec'd by: Scott Docke	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/8/09 1330	Date/Time: 9/8/09 16:50	Date/Time: 9/8/09 2000	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912664

1 of 13

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/4/2009	14:07	LPR2F-AR084	1	Tissue	x					Hook in mouth, please remove prior to processing
2	9/4/2009	9:39	LPR1K-CS607	1	Tissue	x					
3	9/4/2009	9:39	LPR1K-CS608	1	Tissue	x					
4	9/4/2009	9:39	LPR1K-CS609	1	Tissue	x					
5	9/4/2009	9:39	LPR1K-CS610	1	Tissue	x					
6	9/4/2009	9:39	LPR1K-CS611	1	Tissue	x					
7	9/4/2009	9:39	LPR1K-CS612	1	Tissue	x					
8	9/4/2009	9:39	LPR1K-CS613	1	Tissue	x					
9	9/4/2009	9:39	LPR1K-CS614	1	Tissue	x					
10	9/4/2009	9:39	LPR1K-CS615	1	Tissue	x					
11	9/4/2009	9:39	LPR1K-CS616	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B. Do	3) **Released by:** Ron Borg	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9-10-09 1913	Date/Time: 9-10-09 22[illegible]	Date/Time:	Date/Time:
Rec'd by: B Do 9/10 14:40	**Rec'd by:** Ron Borg	**Rec'd by:** N. Auclair M. Cwiek	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time:	Date/Time: 1915	Date/Time: 9/11/09 2200	Date/Time:	Date/Time:

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Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912664

2 of 13

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0904092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/4/2009	9:39	LPR1K-CS617	1	Tissue	x					
13	9/4/2009	9:39	LPR1K-CS618	1	Tissue	x					
14	9/4/2009	9:39	LPR1K-CS619	1	Tissue	x					
15	9/4/2009	9:39	LPR1K-CS620	1	Tissue	x					
16	9/4/2009	9:39	LPR1K-CS621	1	Tissue	x					
17	9/4/2009	9:39	LPR1K-CS622	1	Tissue	x					
18	9/4/2009	9:39	LPR1K-CS623	1	Tissue	x					
19	9/4/2009	9:39	LPR1K-CS624	1	Tissue	x					
20	9/4/2009	10:22	LPR2I-CS625	1	Tissue	x					
21	9/4/2009	10:22	LPR2I-CS626	1	Tissue	x					
22	9/4/2009	10:22	LPR2I-CS627	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2210	Date/Time:	Date/Time:
Rec'd by: B Pan 9/10 1440	**Rec'd by:** Ron Brady	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time:	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912664

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/4/2009	10:22	LPR2I-CS628	1	Tissue	x					
24	9/4/2009	11:11	LPR2J-CS629	1	Tissue	x					
25	9/4/2009	11:11	LPR2J-CS630	1	Tissue	x					
26	9/4/2009	11:20	LPR1N-CS631	1	Tissue	x					
27	9/4/2009	10:29	LPR1M-CS632	1	Tissue	x					
28	9/4/2009	11:51	LPR2K-CS633	1	Tissue	x					
29	9/4/2009	11:51	LPR2K-CS634	1	Tissue	x					
30	9/4/2009	11:51	LPR2K-CS635	1	Tissue	x					
31	9/4/2009	11:51	LPR2K-CS636	1	Tissue	x					
32	9/4/2009	11:51	LPR2K-CS637	1	Tissue	x					
33	9/4/2009	11:51	LPR2K-CS638	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:
Rec'd by: B Pa 9/10 1440	**Rec'd by:** Ron Brady	**Rec'd by:** N. Auclair T. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time:	Date/Time: 9/10/09 1915	Date/Time: 8/10/09 2200	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/4/2009	11:51	LPR2K-CS639	1	Tissue	x					
35	9/4/2009	11:51	LPR2K-CS640	1	Tissue	x					
36	9/4/2009	11:51	LPR2K-CS641	1	Tissue	x					
37	9/4/2009	9:56	LPR1L-CS642	1	Tissue	x					
38	9/4/2009	10:35	LPR1M-CS643	1	Tissue	x					
39	9/4/2009	10:29	LPR1M-CS644	1	Tissue	x					
~~40~~ 40	9/4/2009	10:00	LPR1L-CS645	1	Tissue	x					
41	9/4/2009	9:56	LPR1L-CS646	1	Tissue	x					
42	9/4/2009	11:20	LPR1N-CS647	1	Tissue	x					
43	9/4/2009	10:00	LPR1L-CS648	1	Tissue	x					
44	9/4/2009	12:22	LPR1I-CS649	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15 15	Date/Time: 9/10/09 22 1545	Date/Time:	Date/Time:
Rec'd by: 9/10 1440	**Rec'd by:**	**Rec'd by:** N. Aulair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time:	Date/Time: 9/10/09 15 15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/4/2009	12:22	LPR1I-CS650	1	Tissue	x					
46	9/4/2009	12:22	LPR1I-CS651	1	Tissue	x					
47	9/4/2009	12:22	LPR1I-CS652	1	Tissue	x					
48	9/4/2009	11:20	LPR1N-CS653	1	Tissue	x					
49	9/4/2009	10:33	LPR1M-CS654	1	Tissue	x					
50	9/4/2009	11:20	LPR1N-CS655	1	Tissue	x					
51	9/4/2009	10:33	LPR1M-CS656	1	Tissue	x					
52	9/4/2009	12:10	LPR2M-CS657	1	Tissue	x					
53	9/4/2009	12:41	LPR2N-CS658	1	Tissue	x					
54	9/4/2009	12:41	LPR2N-CS659	1	Tissue	x					
55	9/4/2009	12:15	LPR2M-CS660	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10/09 1815	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Aulair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1913	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

Wind Ward environmental LLC
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/4/2009	11:52	LPR2L-CS661	1	Tissue	x					
57	9/4/2009	12:10	LPR2M-CS662	1	Tissue	x					
58	9/4/2009	12:51	LPR1J-CS663	1	Tissue	x					
59	9/4/2009	12:51	LPR1J-CS664	1	Tissue	x					
60	9/4/2009	12:51	LPR1J-CS665	1	Tissue	x					
61	9/4/2009	12:51	LPR1J-CS666	1	Tissue	x					
62	9/4/2009	12:51	LPR1J-CS667	1	Tissue	x					
63	9/4/2009	12:51	LPR1J-CS668	1	Tissue	x					
64	9/4/2009	12:51	LPR1J-CS669	1	Tissue	x					
65	9/4/2009	12:51	LPR1J-CS670	1	Tissue	x					
66	9/4/2009	12:51	LPR1J-CS671	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2230	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

LO912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0904097
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/4/2009	12:51	LPR1J-CS672	1	Tissue	x					
68	9/4/2009	12:51	LPR1J-CS673	1	Tissue	x					
69	9/4/2009	12:51	LPR1J-CS674	1	Tissue	x					
70	9/4/2009	10:08	LPR1O-CS675	1	Tissue	x					
71	9/4/2009	11:00	LPR1D-FH004	1	Tissue	x					
72	9/4/2009	11:14	LPR1Q-FH005	1	Tissue	x					
73	9/4/2009	10:22	LPR2I-MA157	1	Tissue	x					
74	9/4/2009	11:25	LPR2H-MA158	1	Tissue	x					
75	9/4/2009	12:53	LPR2E-MA159	1	Tissue	x					
76	9/4/2009	11:39	LPR2O-MA160	1	Tissue	x					
77	9/4/2009	9:46	LPR1AA-MM006	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1400	Date/Time: 9/10 1515	Date/Time: 9/10/09 2220	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1515	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0904098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/4/2009	9:46	LPR1AA-MM007	1	Tissue	x					
79	9/4/2009	9:40	LPR1AA-MM008	1	Tissue	x					
80	9/4/2009	9:40	LPR1AA-MM009	1	Tissue	x					
81	9/4/2009	9:40	LPR1AA-MM010	1	Tissue	x					
82	9/4/2009	9:40	LPR1AA-MM011	1	Tissue	x					
83	9/4/2009	9:40	LPR1AA-MM012	1	Tissue	x					
84	9/4/2009	9:46	LPR1AA-MM013	1	Tissue	x					
85	9/4/2009	9:53	LPR1AA-MM014	1	Tissue	x					
86	9/4/2009	10:25	LPR1BB-MM015	1	Tissue	x					
87	9/4/2009	10:56	LPR1Q-MM016	1	Tissue	x					
88	9/4/2009	11:00	LPR1D-MM017	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1400	Date/Time: 9/10 19[17]	Date/Time: 9/10/09 22[00]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 18[15]	Date/Time: 9/10/09 2000	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0904099
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/4/2009	11:00	LPR1D-MM018	1	Tissue	x					
90	9/4/2009	11:00	LPR1D-MM019	1	Tissue	x					
91	9/4/2009	11:00	LPR1D-MM020	1	Tissue	x					
92	9/4/2009	11:00	LPR1D-MM021	1	Tissue	x					
93	9/4/2009	11:00	LPR1D-MM022	1	Tissue	x					
94	9/4/2009	11:00	LPR1D-MM023	1	Tissue	x					
95	9/4/2009	9:46	LPR1AA-MM024	1	Tissue	x					
96	9/4/2009	11:00	LPR1D-MM025	1	Tissue	x					
97	9/4/2009	11:00	LPR1D-MM026	1	Tissue	x					
98	9/4/2009	11:00	LPR1D-MM027	1	Tissue	x					
99	9/4/2009	11:00	LPR1D-MM028	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19[illegible]	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by: B Pn	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19[illegible]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

LO912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09040910	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/4/2009	11:00	LPR1D-MM029	1	Tissue	x					
101	9/4/2009	11:14	LPR1Q-MM030	1	Tissue	x					
102	9/4/2009	11:14	LPR1Q-MM031	1	Tissue	x					
103	9/4/2009	11:14	LPR1Q-MM032	1	Tissue	x					
104	9/4/2009	11:14	LPR1Q-MM033	1	Tissue	x					
105	9/4/2009	11:14	LPR1Q-MM034	1	Tissue	x					
106	9/4/2009	11:14	LPR1Q-MM035	1	Tissue	x					
107	9/4/2009	11:14	LPR1Q-MM036	1	Tissue	x					
108	9/4/2009	11:14	LPR1Q-MM037	1	Tissue	x					
109	9/4/2009	11:14	LPR1Q-MM038	1	Tissue	x					
110	9/4/2009	11:14	LPR1Q-MM039	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09040911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/4/2009	11:14	LPR1Q-MM040	1	Tissue	x					
112	9/4/2009	11:14	LPR1Q-MM041	1	Tissue	x					
113	9/4/2009	11:14	LPR1Q-MM042	1	Tissue	x					
114	9/4/2009	11:14	LPR1Q-MM043	1	Tissue	x					
115	9/4/2009	11:14	LPR1Q-MM044	1	Tissue	x					
116	9/4/2009	11:14	LPR1Q-MM045	1	Tissue	x					
117	9/4/2009	11:14	LPR1Q-MM046	1	Tissue	x					
118	9/4/2009	11:14	LPR1Q-MM047	1	Tissue	x					
119	9/4/2009	11:14	LPR1Q-MM048	1	Tissue	x					
120	9/4/2009	11:14	LPR1Q-MM049	1	Tissue	x					
121	9/4/2009	11:14	LPR1Q-MM050	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by: B Pn	**Rec'd by:** R Brady	**Rec'd by:** N. Aulair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912664

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09040912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/4/2009	11:14	LPR1Q-MM051	1	Tissue	x					
123	9/4/2009	11:14	LPR1Q-MM052	1	Tissue	x					
124	9/4/2009	11:14	LPR1Q-MM053	1	Tissue	x					
125	9/4/2009	11:14	LPR1Q-MM054	1	Tissue	x					
126	9/4/2009	11:14	LPR1Q-MM055	1	Tissue	x					
127	9/4/2009	11:14	LPR1Q-MM056	1	Tissue	x					
128	9/4/2009	11:14	LPR1Q-MM057	1	Tissue	x					
129	9/4/2009	11:14	LPR1Q-MM058	1	Tissue	x					
130	9/4/2009	11:14	LPR1Q-MM060	1	Tissue	x					
131	9/4/2009	11:14	LPR1Q-MM061	1	Tissue	x					
132	9/4/2009	11:14	LPR1Q-MM062	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10/09 19[illegible]	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Aucl[illegible]	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alph[illegible]	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19[illegible]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

13 of 13

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912864

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09040913	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
133	9/4/2009	11:14	LPR1Q-MM063	1	Tissue	x					
134	9/4/2009	11:14	LPR1Q-MM064	1	Tissue	x					
135	9/4/2009	11:14	LPR1Q-MM065	1	Tissue	x					
	Total Number of Containers			**135**	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19:15	Date/Time: 9/10/09 22:00	Date/Time:	Date/Time:
Rec'd by: B Pa 9/10 1440	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time:	Date/Time: 9/10/09 19:15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/5/2009	12:03	LPR1G-AR085	1	Tissue	x					Hook in mouth, please remove prior to processing
2	9/5/2009	15:15	LPR5M-AR086	1	Tissue	x					
3	9/5/2009	10:55	LPR1K-CS676	1	Tissue	x					
4	9/5/2009	10:55	LPR1K-CS677	1	Tissue	x					
5	9/5/2009	10:55	LPR1K-CS678	1	Tissue	x					
6	9/5/2009	10:55	LPR1K-CS679	1	Tissue	x					
7	9/5/2009	10:55	LPR1K-CS680	1	Tissue	x					
8	9/5/2009	10:55	LPR1K-CS681	1	Tissue	x					
9	9/5/2009	10:55	LPR1K-CS682	1	Tissue	x					
10	9/5/2009	10:55	LPR1K-CS683	1	Tissue	x					
11	9/5/2009	10:55	LPR1K-CS684	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/5/2009	10:55	LPR1K-CS685	1	Tissue	x					
13	9/5/2009	10:55	LPR1K-CS686	1	Tissue	x					
14	9/5/2009	10:55	LPR1K-CS687	1	Tissue	x					
15	9/5/2009	10:55	LPR1K-CS688	1	Tissue	x					
16	9/5/2009	10:55	LPR1K-CS689	1	Tissue	x					
17	9/5/2009	11:34	LPR1J-CS690	1	Tissue	x					
18	9/5/2009	11:34	LPR1J-CS691	1	Tissue	x					
19	9/5/2009	11:34	LPR1J-CS692	1	Tissue	x					
20	9/5/2009	11:34	LPR1J-CS693	1	Tissue	x					
21	9/5/2009	11:34	LPR1J-CS694	1	Tissue	x					
22	9/5/2009	11:34	LPR1J-CS695	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2220	Date/Time:	Date/Time:
Rec'd by: B Pn	**Rec'd by:** R Brady	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0905093
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/5/2009	11:34	LPR1J-CS696	1	Tissue	x					
24	9/5/2009	11:34	LPR1J-CS697	1	Tissue	x					
25	9/5/2009	11:34	LPR1J-CS698	1	Tissue	x					
26	9/5/2009	11:34	LPR1J-CS699	1	Tissue	x					
27	9/5/2009	11:34	LPR1J-CS700	1	Tissue	x					
28	9/5/2009	11:34	LPR1J-CS701	1	Tissue	x					
29	9/5/2009	12:13	LPR1I-CS702	1	Tissue	x					
30	9/5/2009	12:13	LPR1I-CS703	1	Tissue	x					
31	9/5/2009	12:13	LPR1I-CS704	1	Tissue	x					
32	9/5/2009	12:13	LPR1I-CS705	1	Tissue	x					
33	9/5/2009	12:13	LPR1I-CS706	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: Windward Environmental	Company: 9/10	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 19:15	Date/Time: 9/10/09 22:00	Date/Time:	Date/Time:
Rec'd by: B Pr	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: Alpha Analytical	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19:15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/5/2009	12:13	LPR1I-CS707	1	Tissue	x					
35	9/5/2009	12:13	LPR1I-CS708	1	Tissue	x					
36	9/5/2009	12:13	LPR1I-CS709	1	Tissue	x					
37	9/5/2009	12:13	LPR1I-CS710	1	Tissue	x					
38	9/5/2009	12:13	LPR1I-CS711	1	Tissue	x					
39	9/5/2009	12:46	LPR2K-CS712	1	Tissue	x					
40	9/5/2009	12:46	LPR2K-CS713	1	Tissue	x					
41	9/5/2009	12:46	LPR2K-CS714	1	Tissue	x					
42	9/5/2009	12:46	LPR2K-CS715	1	Tissue	x					
43	9/5/2009	12:46	LPR2K-CS716	1	Tissue	x					
44	9/5/2009	12:46	LPR2K-CS717	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19:15	Date/Time: 9/10/09 22:00	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Aulair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19:15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/5/2009	12:46	LPR2K-CS718	1	Tissue	x					
46	9/5/2009	12:46	LPR2K-CS719	1	Tissue	x					
47	9/5/2009	11:45	LPR2M-CS720	1	Tissue	x					
48	9/5/2009	11:18	LPR2L-CS721	1	Tissue	x					
49	9/5/2009	13:23	LPR2J-CS722	1	Tissue	x					
50	9/5/2009	13:23	LPR2J-CS723	1	Tissue	x					
51	9/5/2009	13:23	LPR2J-CS724	1	Tissue	x					
52	9/5/2009	13:23	LPR2J-CS725	1	Tissue	x					
53	9/5/2009	11:20	LPR2L-CS726	1	Tissue	x					
54	9/5/2009	11:20	LPR2L-CS727	1	Tissue	x					
55	9/5/2009	10:29	LPR1L-CS728	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15:15	Date/Time: 9/10/09 22:00	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:** R Brady	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15:15	Date/Time: 9/10/09 2300	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/5/2009	12:14	LPR2N-CS729	1	Tissue	x					
57	9/5/2009	11:45	LPR2M-CS730	1	Tissue	x					
58	9/5/2009	10:45	LPR1N-CS731	1	Tissue	x					
59	9/5/2009	10:13	LPR1M-CS732	1	Tissue	x					
60	9/5/2009	10:23	LPR1M-CS733	1	Tissue	x					
61	9/5/2009	10:23	LPR1M-CS734	1	Tissue	x					
62	9/5/2009	10:13	LPR1M-CS735	1	Tissue	x					
63	9/5/2009	10:35	LPR1L-CS736	1	Tissue	x					
64	9/5/2009	12:09	LPR2N-CS737	1	Tissue	x					
65	9/5/2009	12:09	LPR2N-CS738	1	Tissue	x					
66	9/5/2009	12:09	LPR2N-CS739	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15:15	Date/Time: 9/10/09 22°	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:** a Brady	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/5/2009	10:13	LPR1M-CS740	1	Tissue	x					
68	9/5/2009	10:35	LPR1L-CS741	1	Tissue	x					
69	9/5/2009	10:35	LPR1L-CS742	1	Tissue	x					
70	9/5/2009	14:06	LPR2I-CS743	1	Tissue	x					
71	9/5/2009	14:06	LPR2I-CS744	1	Tissue	x					
72	9/5/2009	14:06	LPR2I-CS745	1	Tissue	x					
73	9/5/2009	14:06	LPR2I-CS746	1	Tissue	x					
74	9/5/2009	14:06	LPR2I-CS747	1	Tissue	x					
75	9/5/2009	14:06	LPR2I-CS748	1	Tissue	x					
76	9/5/2009	14:06	LPR2I-CS749	1	Tissue	x					
77	9/5/2009	14:06	LPR2I-CS750	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1515	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/5/2009	14:06	LPR2I-CS751	1	Tissue	x					
79	9/5/2009	15:15	LPR5M-CS752	1	Tissue	x					
80	9/5/2009	10:29	LPR1L-CS753	1	Tissue	x					
81	9/5/2009	10:48	LPR1Q-FH006	1	Tissue	x					
82	9/5/2009	10:48	LPR1Q-FH007	1	Tissue	x					
83	9/5/2009	10:48	LPR1Q-FH008	1	Tissue	x					
84	9/5/2009	10:48	LPR1Q-FH009	1	Tissue	x					
85	9/5/2009	10:56	LPR1D-FH010	1	Tissue	x					
86	9/5/2009	10:56	LPR1D-FH011	1	Tissue	x					
87	9/5/2009	10:56	LPR1D-FH012	1	Tissue	x					
88	9/5/2009	10:56	LPR1D-FH013	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19:15	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15:35	Date/Time: 9/10/09 2300	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0905099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/5/2009	10:56	LPR1D-FH014	1	Tissue	x					
90	9/5/2009	11:08	LPR2B-FH015	1	Tissue	x					
91	9/5/2009	11:08	LPR2B-FH016	1	Tissue	x					
92	9/5/2009	11:08	LPR2B-FH017	1	Tissue	x					
93	9/5/2009	11:12	LPR2B-FH018	1	Tissue	x					
94	9/5/2009	11:12	LPR2B-FH019	1	Tissue	x					
95	9/5/2009	11:12	LPR2B-FH020	1	Tissue	x					
96	9/5/2009	11:12	LPR2B-FH021	1	Tissue	x					
97	9/5/2009	11:12	LPR2B-FH022	1	Tissue	x					
98	9/5/2009	11:12	LPR2B-FH023	1	Tissue	x					
99	9/5/2009	11:12	LPR2B-FH024	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050910	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/5/2009	11:12	LPR2B-FH025	1	Tissue	x					
101	9/5/2009	11:12	LPR2B-FH026	1	Tissue	x					
102	9/5/2009	11:12	LPR2B-FH027	1	Tissue	x					
103	9/5/2009	14:45	LPR2B-FH028	1	Tissue	x					
104	9/5/2009	11:10	LPR2B-FH029	1	Tissue	x					
105	9/5/2009	11:10	LPR2B-FH030	1	Tissue	x					
106	9/5/2009	11:10	LPR2B-FH031	1	Tissue	x					
107	9/5/2009	11:10	LPR2B-FH032	1	Tissue	x					
108	9/5/2009	11:10	LPR2B-FH033	1	Tissue	x					
109	9/5/2009	11:10	LPR2B-FH034	1	Tissue	x					
110	9/5/2009	11:10	LPR2B-FH035	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09050911
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/5/2009	11:10	LPR2B-FH036	1	Tissue	x					
112	9/5/2009	11:10	LPR2B-FH037	1	Tissue	x					
113	9/5/2009	11:10	LPR2B-FH038	1	Tissue	x					
114	9/5/2009	11:10	LPR2B-FH039	1	Tissue	x					
115	9/5/2009	11:10	LPR2B-FH040	1	Tissue	x					
116	9/5/2009	11:10	LPR2B-FH041	1	Tissue	x					
117	9/5/2009	11:10	LPR2B-FH042	1	Tissue	x					
118	9/5/2009	11:10	LPR2B-FH043	1	Tissue	x					
119	9/5/2009	11:10	LPR2B-FH044	1	Tissue	x					
120	9/5/2009	11:10	LPR2B-FH045	1	Tissue	x					
121	9/5/2009	11:10	LPR2B-FH046	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19 15	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by: B P	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19 15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

Windward environmental LLC
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Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/5/2009	11:10	LPR2B-FH047	1	Tissue	x					
123	9/5/2009	11:10	LPR2B-FH048	1	Tissue	x					
124	9/5/2009	11:10	LPR2B-FH049	1	Tissue	x					
125	9/5/2009	11:10	LPR2B-FH050	1	Tissue	x					
126	9/5/2009	11:10	LPR2B-FH051	1	Tissue	x					
127	9/5/2009	11:10	LPR2B-FH052	1	Tissue	x					
128	9/5/2009	11:10	LPR2B-FH053	1	Tissue	x					
129	9/5/2009	11:10	LPR2B-FH054	1	Tissue	x					
130	9/5/2009	11:10	LPR2B-FH055	1	Tissue	x					
131	9/5/2009	11:10	LPR2B-FH056	1	Tissue	x					
132	9/5/2009	11:12	LPR2B-MA161	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pu	3) **Released by:** R Brady	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15[15]	Date/Time: 9/10/09 22[00]	Date/Time:	Date/Time:
Rec'd by: B Pu	**Rec'd by:** R Brady	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15[15]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050913	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
133	9/5/2009	11:26	LPR2O-MA162	1	Tissue	x					
134	9/5/2009	11:40	LPR2C-MA163	1	Tissue	x					
135	9/5/2009	11:40	LPR2C-MA164	1	Tissue	x					
136	9/5/2009	10:05	LPR1AA-MM066	1	Tissue	x					
137	9/5/2009	10:02	LPR1AA-MM067	1	Tissue	x					
138	9/5/2009	10:48	LPR1Q-MM068	1	Tissue	x					
139	9/5/2009	10:03	LPR1AA-MM069	1	Tissue	x					
140	9/5/2009	10:03	LPR1AA-MM070	1	Tissue	x					
141	9/5/2009	10:03	LPR1AA-MM071	1	Tissue	x					
142	9/5/2009	10:11	LPR1BB-MM072	1	Tissue	x					
143	9/5/2009	10:11	LPR1BB-MM073	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pa	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19[15]	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19[15]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050914	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
144	9/5/2009	10:09	LPR1BB-MM074	1	Tissue	x					
145	9/5/2009	10:09	LPR1BB-MM075	1	Tissue	x					
146	9/5/2009	11:10	LPR2B-MM076	1	Tissue	x					
147	9/5/2009	11:10	LPR2B-MM077	1	Tissue	x					
148	9/5/2009	11:10	LPR2B-MM078	1	Tissue	x					
149	9/5/2009	11:10	LPR2B-MM079	1	Tissue	x					
150	9/5/2009	11:10	LPR2B-MM080	1	Tissue	x					
151	9/5/2009	11:10	LPR2B-MM081	1	Tissue	x					
152	9/5/2009	11:10	LPR2B-MM082	1	Tissue	x					
153	9/5/2009	11:10	LPR2B-MM083	1	Tissue	x					
154	9/5/2009	11:10	LPR2B-MM084	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:
Rec'd by: B Pan	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050915	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
155	9/5/2009	11:10	LPR2B-MM085	1	Tissue	x					
156	9/5/2009	11:10	LPR2B-MM086	1	Tissue	x					
157	9/5/2009	11:10	LPR2B-MM087	1	Tissue	x					
158	9/5/2009	11:10	LPR2B-MM088	1	Tissue	x					
159	9/5/2009	11:10	LPR2B-MM089	1	Tissue	x					
160	9/5/2009	11:10	LPR2B-MM090	1	Tissue	x					
161	9/5/2009	11:10	LPR2B-MM091	1	Tissue	x					
162	9/5/2009	11:10	LPR2B-MM092	1	Tissue	x					
163	9/5/2009	11:10	LPR2B-MM093	1	Tissue	x					
164	9/5/2009	11:10	LPR2B-MM094	1	Tissue	x					
165	9/5/2009	11:10	LPR2B-MM095	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15 15	Date/Time: 9/10/09 22 00	Date/Time:	Date/Time:
Rec'd by: B Pham	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15 15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050916	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
166	9/5/2009	11:10	LPR2B-MM096	1	Tissue	x					
167	9/5/2009	11:10	LPR2B-MM097	1	Tissue	x					
168	9/5/2009	11:10	LPR2B-MM098	1	Tissue	x					
169	9/5/2009	11:10	LPR2B-MM099	1	Tissue	x					
170	9/5/2009	11:10	LPR2B-MM100	1	Tissue	x					
171	9/5/2009	11:10	LPR2B-MM101	1	Tissue	x					
172	9/5/2009	11:10	LPR2B-MM102	1	Tissue	x					
173	9/5/2009	11:10	LPR2B-MM103	1	Tissue	x					
174	9/5/2009	11:10	LPR2B-MM104	1	Tissue	x					
175	9/5/2009	11:10	LPR2B-MM105	1	Tissue	x					
176	9/5/2009	11:10	LPR2B-MM106	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B P	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:
Rec'd by: B P	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

17 of 17

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912753

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09050917	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					Archive					
177 9/5/2009	11:10	LPR2B-MM107	1	Tissue	x					
Total Number of Containers			**177**	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1815	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1815	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912678

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0907091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/7/2009	13:50	LPR8W-AR087	1	Tissue	x					
2	9/7/2009	13:50	LPR8W-AR088	1	Tissue	x					
3	9/7/2009	13:50	LPR8W-AR089	1	Tissue	x					
4	9/7/2009	13:50	LPR8W-AR090	1	Tissue	x					
5	9/7/2009	13:50	LPR8W-AR091	1	Tissue	x					
6	9/7/2009	13:50	LPR8W-AR092	1	Tissue	x					
7	9/7/2009	14:00	LPR8X-AR093	1	Tissue	x					
8	9/7/2009	14:00	LPR8X-AR094	1	Tissue	x					
9	9/7/2009	14:00	LPR8X-AR095	1	Tissue	x					
10	9/7/2009	14:00	LPR8X-AR096	1	Tissue	x					
11	9/7/2009	14:00	LPR8X-AR097	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:** Ross Bradt	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15 15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912678

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0907092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/7/2009	14:00	LPR8X-AR098	1	Tissue	x					
13	9/7/2009	14:00	LPR8X-AR099	1	Tissue	x					
14	9/7/2009	14:00	LPR8X-AR100	1	Tissue	x					
15	9/7/2009	14:00	LPR8X-AR101	1	Tissue	x					
16	9/7/2009	14:00	LPR8X-AR102	1	Tissue	x					
17	9/7/2009	14:00	LPR8X-AR103	1	Tissue	x					
18	9/7/2009	14:00	LPR8X-AR104	1	Tissue	x					
19	9/7/2009	13:50	LPR8W-CS754	1	Tissue	x					
20	9/7/2009	13:15	LPR8V-MA165	1	Tissue	x					
21	9/7/2009	14:00	LPR8X-MA166	1	Tissue	x					
	Total Number of Containers			21	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1815	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1815	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 8

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0908091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai.Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/8/2009	8:04	LPR8Q-AC019	1	Tissue	x					
2	9/8/2009	8:44	LPR8R-AC020	1	Tissue	x					
3	9/8/2009	8:44	LPR8R-AC021	1	Tissue	x					
4	9/8/2009	9:48	LPR8W-AR105	1	Tissue	x					
5	9/8/2009	10:30	LPR8V-AR106	1	Tissue	x					
6	9/8/2009	10:30	LPR8V-AR107	1	Tissue	x					
7	9/8/2009	12:32	LPR8Y-AR108	1	Tissue	x					
8	9/8/2009	12:32	LPR8Y-AR109	1	Tissue	x					
9	9/8/2009	12:32	LPR8Y-AR110	1	Tissue	x					
10	9/8/2009	12:32	LPR8Y-AR111	1	Tissue	x					
11	9/8/2009	12:32	LPR8Y-AR112	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19[15]	Date/Time: 9/10/09 22[00]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: Alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15[15]	Date/Time: 9/10/09 2300	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 8

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0908092
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/8/2009	12:32	LPR8Y-AR113	1	Tissue	x					
13	9/8/2009	12:32	LPR8Y-AR114	1	Tissue	x					
14	9/8/2009	12:32	LPR8Y-AR115	1	Tissue	x					
15	9/8/2009	12:32	LPR8Y-AR116	1	Tissue	x					
16	9/8/2009	12:32	LPR8Y-AR117	1	Tissue	x					
17	9/8/2009	12:32	LPR8Y-AR118	1	Tissue	x					
18	9/8/2009	12:32	LPR8Y-AR119	1	Tissue	x					
19	9/8/2009	12:32	LPR8Y-AR120	1	Tissue	x					
20	9/8/2009	12:32	LPR8Y-AR121	1	Tissue	x					
21	9/8/2009	12:32	LPR8Y-AR122	1	Tissue	x					
22	9/8/2009	12:32	LPR8Y-AR123	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22[illegible]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: aepha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/11/09 0200	Date/Time:	Date/Time:

Wind Ward environmental LLC

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0908093
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/8/2009	12:32	LPR8Y-AR124	1	Tissue	x					
24	9/8/2009	12:32	LPR8Y-AR125	1	Tissue	x					
25	9/8/2009	12:32	LPR8Y-AR126	1	Tissue	x					
26	9/8/2009	12:32	LPR8Y-AR127	1	Tissue	x					
27	9/8/2009	12:32	LPR8Y-AR128	1	Tissue	x					
28	9/8/2009	11:41	LPR8F-AR129	1	Tissue	x					
29	9/8/2009	13:15	LPR8Z-AR130	1	Tissue	x					
30	9/8/2009	13:15	LPR8Z-AR131	1	Tissue	x					
31	9/8/2009	13:15	LPR8Z-AR132	1	Tissue	x					
32	9/8/2009	13:15	LPR8Z-AR133	1	Tissue	x					
33	9/8/2009	13:15	LPR8Z-AR134	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19:15	Date/Time: 9/10/09 22-	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Avelair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19:15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0908094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/8/2009	13:15	LPR8Z-AR135	1	Tissue	x					
35	9/8/2009	13:15	LPR8Z-AR136	1	Tissue	x					
36	9/8/2009	13:15	LPR8Z-AR137	1	Tissue	x					
37	9/8/2009	13:15	LPR8Z-AR138	1	Tissue	x					
38	9/8/2009	13:15	LPR8Z-AR139	1	Tissue	x					
39	9/8/2009	13:15	LPR8Z-AR140	1	Tissue	x					
40	9/8/2009	13:15	LPR8Z-AR141	1	Tissue	x					
41	9/8/2009	13:15	LPR8Z-AR142	1	Tissue	x					
42	9/8/2009	13:15	LPR8Z-AR143	1	Tissue	x					
43	9/8/2009	13:15	LPR8Z-AR144	1	Tissue	x					
44	9/8/2009	13:15	LPR8Z-AR145	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1915	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2000	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of 8

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0908095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/8/2009	13:15	LPR8Z-AR146	1	Tissue	x					
46	9/8/2009	13:15	LPR8Z-AR147	1	Tissue	x					
47	9/8/2009	13:15	LPR8Z-AR148	1	Tissue	x					
48	9/8/2009	13:15	LPR8Z-AR149	1	Tissue	x					
49	9/8/2009	13:15	LPR8Z-AR150	1	Tissue	x					
50	9/8/2009	13:15	LPR8Z-AR151	1	Tissue	x					
51	9/8/2009	13:15	LPR8Z-AR152	1	Tissue	x					
52	9/8/2009	13:15	LPR8Z-AR153	1	Tissue	x					
53	9/8/2009	13:15	LPR8Z-AR154	1	Tissue	x					
54	9/8/2009	13:15	LPR8Z-AR155	1	Tissue	x					
55	9/8/2009	13:15	LPR8Z-AR156	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 15[15]	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair A. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 1915	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt::	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0908096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/8/2009	13:15	LPR8Z-AR157	1	Tissue	x					
57	9/8/2009	13:15	LPR8Z-AR158	1	Tissue	x					
58	9/8/2009	7:48	LPR8S-CC119	1	Tissue	x					
59	9/8/2009	7:48	LPR8S-CC120	1	Tissue	x					
60	9/8/2009	7:48	LPR8S-CC121	1	Tissue	x					
61	9/8/2009	7:48	LPR8S-CC122	1	Tissue	x					
62	9/8/2009	7:48	LPR8S-CC123	1	Tissue	x					
63	9/8/2009	7:48	LPR8S-CC124	1	Tissue	x					
64	9/8/2009	8:44	LPR8R-CC127	1	Tissue	x					
65	9/8/2009	8:44	LPR8R-CC128	1	Tissue	x					
66	9/8/2009	8:44	LPR8R-CC129	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19[15]	Date/Time: 9/10/09 22[00]	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 19[15]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0912680

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0908097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/8/2009	8:44	LPR8R-CC130	1	Tissue	x					
68	9/8/2009	7:48	LPR8S-CS755	1	Tissue	x					
69	9/8/2009	8:44	LPR8R-CS756	1	Tissue	x					
70	9/8/2009	9:50	LPR8K-CS757	1	Tissue	x					
71	9/8/2009	9:54	LPR8K-CS758	1	Tissue	x					
72	9/8/2009	12:32	LPR8Y-CS759	1	Tissue	x					
73	9/8/2009	12:32	LPR8Y-CS760	1	Tissue	x					
74	9/8/2009	12:32	LPR8Y-CS761	1	Tissue	x					
75	9/8/2009	12:32	LPR8Y-EO006	1	Tissue	x					
76	9/8/2009	9:48	LPR8W-MS001	1	Tissue	x					
77	9/8/2009	10:09	LPR8X-MS002	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 1515	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:** N. Ayclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 15 15	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

8 of 8

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0912680

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0908098
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Kim Goffman	Turnaround requested:	Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78 9/8/2009	9:38	LPR8H-MS003	1	Tissue	x					
Total Number of Containers			**78**	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 09.10.09/1440	Date/Time: 9/10 19[15]	Date/Time: 9/10/09 22	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company:	Company: alpha	Company:	Company:
Date/Time: 9/10 1440	Date/Time: 9/10/09 18[15]	Date/Time: 9/10/09 2200	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4/09/3008

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 0909091
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/9/2009	7:49	LPR8U-AR159	1	Tissue	x					
2	9/9/2009	7:49	LPR8U-AR160	1	Tissue	x					
3	9/9/2009	7:49	LPR8U-AR161	1	Tissue	x					
4	9/9/2009	7:49	LPR8U-AR162	1	Tissue	x					
5	9/9/2009	7:49	LPR8U-AR163	1	Tissue	x					
6	9/9/2009	7:49	LPR8U-AR164	1	Tissue	x					
7	9/9/2009	7:49	LPR8U-AR165	1	Tissue	x					
8	9/9/2009	7:49	LPR8U-AR166	1	Tissue	x					
9	9/9/2009	7:49	LPR8U-AR167	1	Tissue	x					
10	9/9/2009	7:49	LPR8U-AR168	1	Tissue	x					
11	9/9/2009	7:49	LPR8U-AR169	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 17:50	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: **Passaic RI/FS Tissue**
Project Number: 09.58.02.31
Contact Name: Jennifer Parker
Sampled By: Thai Do, Angelita Rodriquez

Ship to: **Alpha Analytical** No. LPR 0909092
Attn: Peter Henriksen
Shipper: Lab Pick-up
Form filled out by: Mara Irby

Shipping Date:
Airbill Number: N/A
Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/9/2009	7:49	LPR8U-AR170	1	Tissue	x					
13	9/9/2009	7:49	LPR8U-AR171	1	Tissue	x					
14	9/9/2009	8:25	LPR8V-AR172	1	Tissue	x					
15	9/9/2009	8:25	LPR8V-AR173	1	Tissue	x					
16	9/9/2009	8:25	LPR8V-AR174	1	Tissue	x					
17	9/9/2009	8:25	LPR8V-AR175	1	Tissue	x					
18	9/9/2009	8:25	LPR8V-AR178	1	Tissue	x					
19	9/9/2009	8:25	LPR8V-AR179	1	Tissue	x					
20	9/9/2009	8:25	LPR8V-AR180	1	Tissue	x					
21	9/9/2009	8:25	LPR8V-AR181	1	Tissue	x					
22	9/9/2009	8:25	LPR8V-AR182	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2112	Date/Time:	Date/Time:
Rec'd by: Scott Walk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 11:30	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/9/2009	8:25	LPR8V-AR183	1	Tissue	x					
24	9/9/2009	8:25	LPR8V-AR184	1	Tissue	x					
25	9/9/2009	8:25	LPR8V-AR185	1	Tissue	x					
26	9/9/2009	8:25	LPR8V-AR186	1	Tissue	x					
27	9/9/2009	8:25	LPR8V-AR187	1	Tissue	x					
28	9/9/2009	9:51	LPR8X-AR188	1	Tissue	x					
29	9/9/2009	11:25	LPR8Z-AR189	1	Tissue	x					
30	9/9/2009	11:25	LPR8Z-AR190	1	Tissue	x					
31	9/9/2009	11:25	LPR8Z-AR191	1	Tissue	x					
32	9/9/2009	11:25	LPR8Z-AR192	1	Tissue	x					
33	9/9/2009	11:25	LPR8Z-AR193	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1400	Date/Time: 9/15/09 21:35	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha 17:50	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/9/2009	11:25	LPR8Z-AR194	1	Tissue	x					
35	9/9/2009	11:25	LPR8Z-AR195	1	Tissue	x					
36	9/9/2009	11:25	LPR8Z-AR196	1	Tissue	x					
37	9/9/2009	11:25	LPR8Z-AR197	1	Tissue	x					
38	9/9/2009	11:25	LPR8Z-AR198	1	Tissue	x					
39	9/9/2009	11:25	LPR8Z-AR199	1	Tissue	x					
40	9/9/2009	11:25	LPR8Z-AR200	1	Tissue	x					
41	9/9/2009	11:25	LPR8Z-AR201	1	Tissue	x					
42	9/9/2009	11:25	LPR8Z-AR202	1	Tissue	x					
43	9/9/2009	11:25	LPR8Z-AR203	1	Tissue	x					
44	9/9/2009	11:25	LPR8Z-AR204	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Wolfe	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Scott Wolfe	**Rec'd by:**	**Rec'd by:** N. Aucoin	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 N.So	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Wind Ward environmental LLC
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/9/2009	11:25	LPR8Z-AR205	1	Tissue	x					
46	9/9/2009	11:25	LPR8Z-AR206	1	Tissue	x					
47	9/9/2009	11:25	LPR8Z-AR207	1	Tissue	x					
48	9/9/2009	11:25	LPR8Z-AR208	1	Tissue	x					
49	9/9/2009	11:25	LPR8Z-AR209	1	Tissue	x					
50	9/9/2009	11:25	LPR8Z-AR210	1	Tissue	x					
51	9/9/2009	11:25	LPR8Z-AR211	1	Tissue	x					
52	9/9/2009	11:25	LPR8Z-AR212	1	Tissue	x					
53	9/9/2009	11:25	LPR8Z-AR213	1	Tissue	x					
54	9/9/2009	11:25	LPR8Z-AR214	1	Tissue	x					
55	9/9/2009	11:25	LPR8Z-AR215	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Woelfle	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1400	Date/Time: 9/15/09 2112	Date/Time:	Date/Time:
Rec'd by: Scott Woelfle	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1500	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/9/2009	11:25	LPR8Z-AR216	1	Tissue	x					
57	9/9/2009	11:25	LPR8Z-AR217	1	Tissue	x					
58	9/9/2009	11:25	LPR8Z-AR218	1	Tissue	x					
59	9/9/2009	11:25	LPR8Z-AR219	1	Tissue	x					
60	9/9/2009	11:25	LPR8Z-AR220	1	Tissue	x					
61	9/9/2009	11:25	LPR8Z-AR221	1	Tissue	x					
62	9/9/2009	11:25	LPR8Z-AR222	1	Tissue	x					
63	9/9/2009	11:25	LPR8Z-AR223	1	Tissue	x					
64	9/9/2009	11:25	LPR8Z-AR224	1	Tissue	x					
65	9/9/2009	11:25	LPR8Z-AR225	1	Tissue	x					
66	9/9/2009	11:25	LPR8Z-AR226	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:06	Date/Time:	Date/Time:
Rec'd by: Scott Wolfe	**Rec'd by:**	**Rec'd by:** N. Avelair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1420	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2400	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0909097
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/9/2009	11:25	LPR8Z-AR227	1	Tissue	x					
68	9/9/2009	11:25	LPR8Z-AR228	1	Tissue	x					
69	9/9/2009	11:25	LPR8Z-AR229	1	Tissue	x					
70	9/9/2009	11:25	LPR8Z-AR230	1	Tissue	x					
71	9/9/2009	11:25	LPR8Z-AR231	1	Tissue	x					
72	9/9/2009	11:25	LPR8Z-AR232	1	Tissue	x					
73	9/9/2009	11:25	LPR8Z-AR233	1	Tissue	x					
74	9/9/2009	11:25	LPR8Z-AR234	1	Tissue	x					
75	9/9/2009	11:25	LPR8Z-AR235	1	Tissue	x					
76	9/9/2009	11:25	LPR8Z-AR236	1	Tissue	x					
77	9/9/2009	11:25	LPR8Z-AR237	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Voll	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Scott Voll	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/9/2009	11:25	LPR8Z-AR238	1	Tissue	x					
79	9/9/2009	11:25	LPR8Z-AR239	1	Tissue	x					
80	9/9/2009	11:25	LPR8Z-AR240	1	Tissue	x					
81	9/9/2009	11:25	LPR8Z-AR241	1	Tissue	x					
82	9/9/2009	11:25	LPR8Z-AR242	1	Tissue	x					
83	9/9/2009	11:25	LPR8Z-AR243	1	Tissue	x					
84	9/9/2009	11:25	LPR8Z-AR244	1	Tissue	x					
85	9/9/2009	11:25	LPR8Z-AR245	1	Tissue	x					
86	9/9/2009	11:25	LPR8Z-AR246	1	Tissue	x					
87	9/9/2009	11:25	LPR8Z-AR247	1	Tissue	x					
88	9/9/2009	11:25	LPR8Z-AR248	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	Rec'd by:	Rec'd by: M. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: acepan	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0909099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/9/2009	11:25	LPR8Z-AR249	1	Tissue	x					
90	9/9/2009	11:25	LPR8Z-AR250	1	Tissue	x					
91	9/9/2009	11:25	LPR8Z-AR251	1	Tissue	x					
92	9/9/2009	11:25	LPR8Z-AR252	1	Tissue	x					
93	9/9/2009	11:25	LPR8Z-AR253	1	Tissue	x					
94	9/9/2009	11:25	LPR8Z-AR254	1	Tissue	x					
95	9/9/2009	11:25	LPR8Z-AR255	1	Tissue	x					
96	9/9/2009	11:25	LPR8Z-AR256	1	Tissue	x					
97	9/9/2009	11:25	LPR8Z-AR257	1	Tissue	x					
98	9/9/2009	11:25	LPR8Z-AR258	1	Tissue	x					
99	9/9/2009	11:25	LPR8Z-AR259	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Scott Wells	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:5	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09090910
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Archive					Comments / Instructions [Jar tag number(s)]
100	9/9/2009	11:25	LPR8Z-AR260	1	Tissue	x					
101	9/9/2009	11:25	LPR8Z-AR261	1	Tissue	x					
102	9/9/2009	11:25	LPR8Z-AR262	1	Tissue	x					
103	9/9/2009	11:25	LPR8Z-AR263	1	Tissue	x					
104	9/9/2009	11:25	LPR8Z-AR264	1	Tissue	x					
105	9/9/2009	11:25	LPR8Z-AR265	1	Tissue	x					
106	9/9/2009	11:25	LPR8Z-AR266	1	Tissue	x					
107	9/9/2009	11:25	LPR8Z-AR267	1	Tissue	x					
108	9/9/2009	11:25	LPR8Z-AR268	1	Tissue	x					
109	9/9/2009	12:20	LPR8Y-AR269	1	Tissue	x					
110	9/9/2009	12:20	LPR8Y-AR270	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:20	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09090911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/9/2009	12:20	LPR8Y-AR271	1	Tissue	x					
112	9/9/2009	12:20	LPR8Y-AR272	1	Tissue	x					
113	9/9/2009	12:20	LPR8Y-AR273	1	Tissue	x					
114	9/9/2009	12:20	LPR8Y-AR274	1	Tissue	x					
115	9/9/2009	12:20	LPR8Y-AR275	1	Tissue	x					
116	9/9/2009	12:20	LPR8Y-AR276	1	Tissue	x					
117	9/9/2009	12:20	LPR8Y-AR277	1	Tissue	x					
118	9/9/2009	12:20	LPR8Y-AR278	1	Tissue	x					
119	9/9/2009	12:20	LPR8Y-AR279	1	Tissue	x					
120	9/9/2009	12:20	LPR8Y-AR280	1	Tissue	x					
121	9/9/2009	12:20	LPR8Y-AR281	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Woelfle	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Sarah Woelfle	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/18/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09090912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/9/2009	12:20	LPR8Y-AR282	1	Tissue	x					
123	9/9/2009	12:20	LPR8Y-AR283	1	Tissue	x					
124	9/9/2009	12:20	LPR8Y-AR284	1	Tissue	x					
125	9/9/2009	12:20	LPR8Y-AR285	1	Tissue	x					
126	9/9/2009	12:20	LPR8Y-AR286	1	Tissue	x					
127	9/9/2009	12:20	LPR8Y-AR287	1	Tissue	x					
128	9/9/2009	12:20	LPR8Y-AR288	1	Tissue	x					
129	9/9/2009	9:15	LPR8R-CC131	1	Tissue	x					
150	9/9/2009	9:15	LPR8R-CC132	1	Tissue	x					
131	9/9/2009	9:15	LPR8R-CS762	1	Tissue	x					
132	9/9/2009	8:49	LPR8K-CS763	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Woelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2102	Date/Time:	Date/Time:
Rec'd by: Sarah Woelk	**Rec'd by:**	**Rec'd by:** N. Aucoin	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2102	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09090913
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
133	9/9/2009	8:49	LPR8K-CS764	1	Tissue	x					
134	9/9/2009	8:49	LPR8K-CS765	1	Tissue	x					
135	9/9/2009	8:47	LPR8K-CS766	1	Tissue	x					
136	9/9/2009	8:56	LPR8K-CS767	1	Tissue	x					
137	9/9/2009	8:56	LPR8K-CS768	1	Tissue	x					
138	9/9/2009	8:56	LPR8K-CS769	1	Tissue	x					
139	9/9/2009	9:54	LPR8J-CS770	1	Tissue	x					
140	9/9/2009	9:54	LPR8J-CS771	1	Tissue	x					
141	9/9/2009	9:54	LPR8J-CS772	1	Tissue	x					
142	9/9/2009	12:20	LPR8Y-CS773	1	Tissue	x					
143	9/9/2009	11:25	LPR8Z-CX001	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Woelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09090914	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
144	9/9/2009	11:25	LPR8Z-CX002	1	Tissue	x					
145	9/9/2009	11:25	LPR8Z-EO007	1	Tissue	x					
146	9/9/2009	11:25	LPR8Z-EO008	1	Tissue	x					
147	9/9/2009	12:20	LPR8Y-EO009	1	Tissue	x					
148	9/9/2009	9:15	LPR8R-IP008	1	Tissue	x					
149	9/9/2009	9:15	LPR8R-IP009	1	Tissue	x					
150	9/9/2009	7:49	LPR8U-MA172	1	Tissue	x					
151	9/9/2009	12:20	LPR8Y-RB001	1	Tissue	x					
	Total Number of Containers			151	Purchase Order / Statement of Work #						

1) Released by:	2) Released by: S Woelk	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 1750	Date/Time:	Date/Time:
Rec'd by: 9/15/09 Scott Woelk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913205

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0910091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/10/2009	13:02	LPR8S-AC022	1	Tissue	x					
2	9/10/2009	10:11	LPR8W-AR289	1	Tissue	x					
3	9/10/2009	10:11	LPR8W-AR290	1	Tissue	x					
4	9/10/2009	10:30	LPR8X-AR291	1	Tissue	x					
5	9/10/2009	9:30	LPR8U-AR292	1	Tissue	x					
6	9/10/2009	9:30	LPR8U-AR293	1	Tissue	x					
7	9/10/2009	10:35	LPR8Y-AR294	1	Tissue	x					
8	9/10/2009	10:35	LPR8Y-AR295	1	Tissue	x					
9	9/10/2009	10:35	LPR8Y-AR296	1	Tissue	x					
10	9/10/2009	10:35	LPR8Y-AR297	1	Tissue	x					
11	9/10/2009	10:35	LPR8Y-AR298	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	2) Released by: S Woolf	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:
Rec'd by: Saff Woolf	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0910092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/10/2009	10:35	LPR8Y-AR299	1	Tissue	x					
13	9/10/2009	10:35	LPR8Y-AR300	1	Tissue	x					
14	9/10/2009	10:35	LPR8Y-AR301	1	Tissue	x					
15	9/10/2009	10:35	LPR8Y-AR302	1	Tissue	x					
16	9/10/2009	10:35	LPR8Y-AR303	1	Tissue	x					
17	9/10/2009	10:35	LPR8Y-AR304	1	Tissue	x					
18	9/10/2009	10:35	LPR8Y-AR305	1	Tissue	x					
19	9/10/2009	10:35	LPR8Y-AR306	1	Tissue	x					
20	9/10/2009	10:35	LPR8Y-AR307	1	Tissue	x					
21	9/10/2009	10:35	LPR8Y-AR308	1	Tissue	x					
22	9/10/2009	10:35	LPR8Y-AR309	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Woelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2145	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1715	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0910093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/10/2009	9:55	LPR8Y-AR310	1	Tissue	x					
24	9/10/2009	9:55	LPR8Y-AR311	1	Tissue	x					
25	9/10/2009	9:55	LPR8Y-AR312	1	Tissue	x					
26	9/10/2009	9:55	LPR8Y-AR313	1	Tissue	x					
27	9/10/2009	9:55	LPR8Y-AR314	1	Tissue	x					
28	9/10/2009	9:55	LPR8Y-AR315	1	Tissue	x					
29	9/10/2009	9:55	LPR8Y-AR316	1	Tissue	x					
30	9/10/2009	9:55	LPR8Y-AR317	1	Tissue	x					
31	9/10/2009	9:55	LPR8Y-AR318	1	Tissue	x					
32	9/10/2009	9:55	LPR8Y-AR319	1	Tissue	x					
33	9/10/2009	9:55	LPR8Y-AR320	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Scott moelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0910094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/10/2009	9:55	LPR8Y-AR321	1	Tissue	x					
35	9/10/2009	9:55	LPR8Y-AR322	1	Tissue	x					
36	9/10/2009	9:55	LPR8Y-AR323	1	Tissue	x					
37	9/10/2009	9:55	LPR8Y-AR324	1	Tissue	x					
38	9/10/2009	9:55	LPR8Y-AR325	1	Tissue	x					
39	9/10/2009	9:55	LPR8Y-AR326	1	Tissue	x					
40	9/10/2009	9:55	LPR8Y-AR327	1	Tissue	x					
41	9/10/2009	9:55	LPR8Y-AR328	1	Tissue	x					
42	9/10/2009	9:55	LPR8Y-AR329	1	Tissue	x					
43	9/10/2009	9:55	LPR8Y-AR330	1	Tissue	x					
44	9/10/2009	9:55	LPR8Y-AR331	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Woelfle	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Scott Woelfle	**Rec'd by:**	**Rec'd by:** N. Buclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0910095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/10/2009	9:55	LPR8Y-AR332	1	Tissue	x					
46	9/10/2009	9:55	LPR8Y-AR333	1	Tissue	x					
47	9/10/2009	9:55	LPR8Y-AR334	1	Tissue	x					
48	9/10/2009	9:55	LPR8Y-AR335	1	Tissue	x					
49	9/10/2009	8:38	LPR8V-AR336	1	Tissue	x					
50	9/10/2009	8:38	LPR8V-AR337	1	Tissue	x					
51	9/10/2009	8:38	LPR8V-AR338	1	Tissue	x					
52	9/10/2009	8:38	LPR8V-AR339	1	Tissue	x					
53	9/10/2009	8:38	LPR8V-AR340	1	Tissue	x					
54	9/10/2009	8:38	LPR8V-AR341	1	Tissue	x					
55	9/10/2009	8:38	LPR8V-AR342	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:30	Date/Time:	Date/Time:
Rec'd by: Scott Woelk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0910096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/10/2009	8:38	LPR8V-AR343	1	Tissue	x					
57	9/10/2009	8:38	LPR8V-AR344	1	Tissue	x					
58	9/10/2009	8:38	LPR8V-AR345	1	Tissue	x					
59	9/10/2009	8:40	LPR8Z-AR346	1	Tissue	x					
60	9/10/2009	8:40	LPR8Z-AR347	1	Tissue	x					
61	9/10/2009	8:40	LPR8Z-AR348	1	Tissue	x					
62	9/10/2009	8:40	LPR8Z-AR349	1	Tissue	x					
63	9/10/2009	8:40	LPR8Z-AR350	1	Tissue	x					
64	9/10/2009	8:40	LPR8Z-AR351	1	Tissue	x					
65	9/10/2009	8:40	LPR8Z-AR352	1	Tissue	x					
66	9/10/2009	8:40	LPR8Z-AR353	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Wolf	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:0	Date/Time:	Date/Time:
Rec'd by: Scott Wolf	**Rec'd by:**	**Rec'd by:** N. Ouellair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:40	Date/Time: 9/15/09 21001	Date/Time:	Date/Time:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0910097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/10/2009	8:40	LPR8Z-AR354	1	Tissue	x					
68	9/10/2009	8:40	LPR8Z-AR355	1	Tissue	x					
69	9/10/2009	8:40	LPR8Z-AR356	1	Tissue	x					
70	9/10/2009	8:40	LPR8Z-AR357	1	Tissue	x					
71	9/10/2009	8:40	LPR8Z-AR358	1	Tissue	x					
72	9/10/2009	8:40	LPR8Z-AR359	1	Tissue	x					
73	9/10/2009	8:40	LPR8Z-AR360	1	Tissue	x					
74	9/10/2009	8:40	LPR8Z-AR361	1	Tissue	x					
75	9/10/2009	8:40	LPR8Z-AR362	1	Tissue	x					
76	9/10/2009	8:40	LPR8Z-AR363	1	Tissue	x					
77	9/10/2009	8:40	LPR8Z-AR364	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0910098
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/10/2009	8:40	LPR8Z-AR365	1	Tissue	x					
79	9/10/2009	8:40	LPR8Z-AR366	1	Tissue	x					
80	9/10/2009	8:40	LPR8Z-AR367	1	Tissue	x					
81	9/10/2009	8:40	LPR8Z-AR368	1	Tissue	x					
82	9/10/2009	8:40	LPR8Z-AR369	1	Tissue	x					
83	9/10/2009	8:40	LPR8Z-AR370	1	Tissue	x					
84	9/10/2009	8:40	LPR8Z-AR371	1	Tissue	x					
85	9/10/2009	8:40	LPR8Z-AR372	1	Tissue	x					
86	9/10/2009	8:40	LPR8Z-AR373	1	Tissue	x					
87	9/10/2009	8:40	LPR8Z-AR374	1	Tissue	x					
88	9/10/2009	8:40	LPR8Z-AR375	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by: S Woelk	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Sat Woelk 9/15/09	Rec'd by:	Rec'd by: N. Auclair N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Windward environmental LLC
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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0910099
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/10/2009	8:40	LPR8Z-AR376	1	Tissue	x					
90	9/10/2009	8:40	LPR8Z-AR377	1	Tissue	x					
91	9/10/2009	8:40	LPR8Z-AR378	1	Tissue	x					
92	9/10/2009	8:40	LPR8Z-AR379	1	Tissue	x					
93	9/10/2009	8:40	LPR8Z-AR380	1	Tissue	x					
94	9/10/2009	8:40	LPR8Z-AR381	1	Tissue	x					
95	9/10/2009	8:40	LPR8Z-AR382	1	Tissue	x					
96	9/10/2009	8:40	LPR8Z-AR383	1	Tissue	x					
97	9/10/2009	8:40	LPR8Z-AR384	1	Tissue	x					
98	9/10/2009	8:40	LPR8Z-AR385	1	Tissue	x					
99	9/10/2009	8:40	LPR8Z-AR386	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** Scott Hoelk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:30	Date/Time:	Date/Time:
Rec'd by: Scott Hoelk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha 17:50	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1406	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Wind Ward environmental LLC
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100910	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/10/2009	8:40	LPR8Z-AR387	1	Tissue	x					
101	9/10/2009	8:40	LPR8Z-AR388	1	Tissue	x					
102	9/10/2009	8:40	LPR8Z-AR389	1	Tissue	x					
103	9/10/2009	8:40	LPR8Z-AR390	1	Tissue	x					
104	9/10/2009	8:40	LPR8Z-AR391	1	Tissue	x					
105	9/10/2009	8:40	LPR8Z-AR392	1	Tissue	x					
106	9/10/2009	8:40	LPR8Z-AR393	1	Tissue	x					
107	9/10/2009	8:40	LPR8Z-AR394	1	Tissue	x					
108	9/10/2009	8:40	LPR8Z-AR395	1	Tissue	x					
109	9/10/2009	8:40	LPR8Z-AR396	1	Tissue	x					
110	9/10/2009	8:40	LPR8Z-AR397	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 09/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Scott Ironside	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/10/2009	8:40	LPR8Z-AR398	1	Tissue	x					
112	9/10/2009	8:40	LPR8Z-AR399	1	Tissue	x					
113	9/10/2009	8:40	LPR8Z-AR400	1	Tissue	x					
114	9/10/2009	8:40	LPR8Z-AR401	1	Tissue	x					
115	9/10/2009	8:40	LPR8Z-AR402	1	Tissue	x					
116	9/10/2009	8:40	LPR8Z-AR403	1	Tissue	x					
117	9/10/2009	8:40	LPR8Z-AR404	1	Tissue	x					
118	9/10/2009	8:40	LPR8Z-AR405	1	Tissue	x					
119	9/10/2009	8:40	LPR8Z-AR406	1	Tissue	x					
120	9/10/2009	8:40	LPR8Z-AR407	1	Tissue	x					
121	9/10/2009	8:40	LPR8Z-AR408	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Crockett	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Scott Nowell	**Rec'd by:**	**Rec'd by:** N. Aucoin	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1700	Date/Time: 9/16/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100912
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/10/2009	8:40	LPR8Z-AR409	1	Tissue	x					
123	9/10/2009	8:40	LPR8Z-AR410	1	Tissue	x					
124	9/10/2009	8:40	LPR8Z-AR411	1	Tissue	x					
125	9/10/2009	8:40	LPR8Z-AR412	1	Tissue	x					
126	9/10/2009	8:40	LPR8Z-AR413	1	Tissue	x					
127	9/10/2009	8:40	LPR8Z-AR414	1	Tissue	x					
128	9/10/2009	8:40	LPR8Z-AR415	1	Tissue	x					
129	9/10/2009	8:40	LPR8Z-AR416	1	Tissue	x					
130	9/10/2009	8:40	LPR8Z-AR417	1	Tissue	x					
131	9/10/2009	8:40	LPR8Z-AR418	1	Tissue	x					
132	9/10/2009	8:40	LPR8Z-AR419	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: Scott Wolfe	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:30	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100913	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
133	9/10/2009	8:40	LPR8Z-AR420	1	Tissue	x					
134	9/10/2009	8:40	LPR8Z-AR421	1	Tissue	x					
135	9/10/2009	8:40	LPR8Z-AR422	1	Tissue	x					
136	9/10/2009	8:40	LPR8Z-AR423	1	Tissue	x					
137	9/10/2009	8:40	LPR8Z-AR424	1	Tissue	x					
138	9/10/2009	8:40	LPR8Z-AR425	1	Tissue	x					
139	9/10/2009	8:40	LPR8Z-AR426	1	Tissue	x					
140	9/10/2009	8:40	LPR8Z-AR427	1	Tissue	x					
141	9/10/2009	8:40	LPR8Z-AR428	1	Tissue	x					
142	9/10/2009	8:40	LPR8Z-AR429	1	Tissue	x					
143	9/10/2009	8:40	LPR8Z-AR430	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2132	Date/Time:	Date/Time:
Rec'd by: Scott Wolfe	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1900	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100914	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
144	9/10/2009	8:40	LPR8Z-AR431	1	Tissue	x					
145	9/10/2009	8:40	LPR8Z-AR432	1	Tissue	x					
146	9/10/2009	8:40	LPR8Z-AR433	1	Tissue	x					
147	9/10/2009	8:40	LPR8Z-AR434	1	Tissue	x					
148	9/10/2009	8:40	LPR8Z-AR435	1	Tissue	x					
149	9/10/2009	8:40	LPR8Z-AR436	1	Tissue	x					
150	9/10/2009	8:40	LPR8Z-AR437	1	Tissue	x					
151	9/10/2009	8:40	LPR8Z-AR438	1	Tissue	x					
152	9/10/2009	8:40	LPR8Z-AR439	1	Tissue	x					
153	9/10/2009	8:40	LPR8Z-AR440	1	Tissue	x					
154	9/10/2009	8:40	LPR8Z-AR441	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: Scott Wolk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1700	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100915
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
155	9/10/2009	8:40	LPR8Z-AR442	1	Tissue	x					
156	9/10/2009	8:40	LPR8Z-AR443	1	Tissue	x					
157	9/10/2009	8:40	LPR8Z-AR444	1	Tissue	x					
158	9/10/2009	8:40	LPR8Z-AR445	1	Tissue	x					
159	9/10/2009	8:40	LPR8Z-AR446	1	Tissue	x					
160	9/10/2009	8:40	LPR8Z-AR447	1	Tissue	x					
161	9/10/2009	8:40	LPR8Z-AR448	1	Tissue	x					
162	9/10/2009	8:40	LPR8Z-AR449	1	Tissue	x					
163	9/10/2009	8:40	LPR8Z-AR450	1	Tissue	x					
164	9/10/2009	8:40	LPR8Z-AR451	1	Tissue	x					
165	9/10/2009	8:40	LPR8Z-AR452	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2123	Date/Time:	Date/Time:
Rec'd by: Swolk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100916	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
166	9/10/2009	8:40	LPR8Z-AR453	1	Tissue	x					
167	9/10/2009	8:40	LPR8Z-AR454	1	Tissue	x					
168	9/10/2009	8:40	LPR8Z-AR455	1	Tissue	x					
169	9/10/2009	8:40	LPR8Z-AR456	1	Tissue	x					
170	9/10/2009	8:40	LPR8Z-AR457	1	Tissue	x					
171	9/10/2009	8:40	LPR8Z-AR458	1	Tissue	x					
172	9/10/2009	8:40	LPR8Z-AR459	1	Tissue	x					
173	9/10/2009	8:40	LPR8Z-AR460	1	Tissue	x					
174	9/10/2009	8:40	LPR8Z-AR461	1	Tissue	x					
175	9/10/2009	8:40	LPR8Z-AR462	1	Tissue	x					
176	9/10/2009	9:15	LPR8Z-AR463	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:[illegible]	Date/Time:	Date/Time:
Rec'd by: S Wolk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100917	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
177	9/10/2009	9:15	LPR8Z-AR464	1	Tissue	x					
178	9/10/2009	9:15	LPR8Z-AR465	1	Tissue	x					
179	9/10/2009	9:15	LPR8Z-AR466	1	Tissue	x					
180	9/10/2009	9:15	LPR8Z-AR467	1	Tissue	x					
181	9/10/2009	9:15	LPR8Z-AR468	1	Tissue	x					
182	9/10/2009	9:15	LPR8Z-AR469	1	Tissue	x					
183	9/10/2009	9:15	LPR8Z-AR470	1	Tissue	x					
184	9/10/2009	9:15	LPR8Z-AR471	1	Tissue	x					
185	9/10/2009	9:15	LPR8Z-AR472	1	Tissue	x					
186	9/10/2009	9:15	LPR8Z-AR473	1	Tissue	x					
187	9/10/2009	9:15	LPR8Z-AR474	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2137	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1960	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100918
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
188	9/10/2009	9:15	LPR8Z-AR475	1	Tissue	x					
189	9/10/2009	9:15	LPR8Z-AR476	1	Tissue	x					
190	9/10/2009	9:15	LPR8Z-AR477	1	Tissue	x					
191	9/10/2009	9:15	LPR8Z-AR478	1	Tissue	x					
192	9/10/2009	9:15	LPR8Z-AR479	1	Tissue	x					
193	9/10/2009	9:15	LPR8Z-AR480	1	Tissue	x					
194	9/10/2009	9:15	LPR8Z-AR481	1	Tissue	x					
195	9/10/2009	9:15	LPR8Z-AR482	1	Tissue	x					
196	9/10/2009	9:15	LPR8Z-AR483	1	Tissue	x					
197	9/10/2009	9:15	LPR8Z-AR484	1	Tissue	x					
198	9/10/2009	9:15	LPR8Z-AR485	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1402	Date/Time: 9/15/09 1755	Date/Time: 9.15.09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100919	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
199	9/10/2009	9:15	LPR8Z-AR486	1	Tissue	x					
200	9/10/2009	9:15	LPR8Z-AR487	1	Tissue	x					
201	9/10/2009	9:15	LPR8Z-AR488	1	Tissue	x					
202	9/10/2009	9:15	LPR8Z-AR489	1	Tissue	x					
203	9/10/2009	9:15	LPR8Z-AR490	1	Tissue	x					
204	9/10/2009	9:15	LPR8Z-AR491	1	Tissue	x					
205	9/10/2009	9:15	LPR8Z-AR492	1	Tissue	x					
206	9/10/2009	9:15	LPR8Z-AR493	1	Tissue	x					
207	9/10/2009	9:15	LPR8Z-AR494	1	Tissue	x					
208	9/10/2009	9:15	LPR8Z-AR495	1	Tissue	x					
209	9/10/2009	9:15	LPR8Z-AR496	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Woelfle	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: S Woelfle	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/19/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100920	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
210	9/10/2009	9:15	LPR8Z-AR497	1	Tissue	x					
211	9/10/2009	9:15	LPR8Z-AR498	1	Tissue	x					
212	9/10/2009	9:15	LPR8Z-AR499	1	Tissue	x					
213	9/10/2009	9:15	LPR8Z-AR500	1	Tissue	x					
214	9/10/2009	9:15	LPR8Z-AR501	1	Tissue	x					
215	9/10/2009	9:15	LPR8Z-AR502	1	Tissue	x					
216	9/10/2009	9:15	LPR8Z-AR503	1	Tissue	x					
217	9/10/2009	9:15	LPR8Z-AR504	1	Tissue	x					
218	9/10/2009	9:15	LPR8Z-AR505	1	Tissue	x					
219	9/10/2009	9:15	LPR8Z-AR506	1	Tissue	x					
220	9/10/2009	9:15	LPR8Z-AR507	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1460	Date/Time: 9/15/09 1730	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100921	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
221	9/10/2009	9:15	LPR8Z-AR508	1	Tissue	x					
222	9/10/2009	9:15	LPR8Z-AR509	1	Tissue	x					
223	9/10/2009	9:15	LPR8Z-AR510	1	Tissue	x					
224	9/10/2009	9:15	LPR8Z-AR511	1	Tissue	x					
225	9/10/2009	9:15	LPR8Z-AR512	1	Tissue	x					
226	9/10/2009	9:15	LPR8Z-AR513	1	Tissue	x					
227	9/10/2009	9:15	LPR8Z-AR514	1	Tissue	x					
228	9/10/2009	9:15	LPR8Z-AR515	1	Tissue	x					
229	9/10/2009	9:15	LPR8Z-AR516	1	Tissue	x					
230	9/10/2009	9:15	LPR8Z-AR517	1	Tissue	x					
231	9/10/2009	9:15	LPR8Z-AR518	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100922	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
232	9/10/2009	9:15	LPR8Z-AR519	1	Tissue	x					
233	9/10/2009	9:15	LPR8Z-AR520	1	Tissue	x					
234	9/10/2009	9:15	LPR8Z-AR521	1	Tissue	x					
235	9/10/2009	9:15	LPR8Z-AR522	1	Tissue	x					
236	9/10/2009	9:15	LPR8Z-AR523	1	Tissue	x					
237	9/10/2009	9:15	LPR8Z-AR524	1	Tissue	x					
238	9/10/2009	9:15	LPR8Z-AR525	1	Tissue	x					
239	9/10/2009	9:15	LPR8Z-AR526	1	Tissue	x					
240	9/10/2009	9:15	LPR8Z-AR527	1	Tissue	x					
241	9/10/2009	9:15	LPR8Z-AR528	1	Tissue	x					
242	9/10/2009	8:40	LPR8Z-AR529	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolff	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: S Wolff	**Rec'd by:**	**Rec'd by:** N. Aucl air	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100923	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
243	9/10/2009	8:40	LPR8Z-AR530	1	Tissue	x					
244	9/10/2009	8:40	LPR8Z-AR531	1	Tissue	x					
245	9/10/2009	8:40	LPR8Z-AR532	1	Tissue	x					
246	9/10/2009	8:40	LPR8Z-AR533	1	Tissue	x					
247	9/10/2009	8:40	LPR8Z-AR534	1	Tissue	x					
248	9/10/2009	13:02	LPR8S-CC133	1	Tissue	x					
249	9/10/2009	13:02	LPR8S-CC134	1	Tissue	x					
250	9/10/2009	13:02	LPR8S-CC135	1	Tissue	x					
251	9/10/2009	13:02	LPR8S-CC136	1	Tissue	x					
252	9/10/2009	13:02	LPR8S-CC137	1	Tissue	x					
253	9/10/2009	13:02	LPR8S-CC138	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Sinclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1755	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100924
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
254	9/10/2009	8:38	LPR8V-CS774	1	Tissue	x					
255	9/10/2009	10:23	LPR8J-CS775	1	Tissue	x					
256	9/10/2009	10:23	LPR8J-CS776	1	Tissue	x					
257	9/10/2009	10:30	LPR8J-CS777	1	Tissue	x					
258	9/10/2009	11:15	LPR8R-CS778	1	Tissue	x					
259	9/10/2009	11:15	LPR8R-CS779	1	Tissue	x					
260	9/10/2009	11:15	LPR8R-CS780	1	Tissue	x					
261	9/10/2009	11:15	LPR8R-CS781	1	Tissue	x					
262	9/10/2009	11:15	LPR8R-CS782	1	Tissue	x					
263	9/10/2009	11:57	LPR8K-CS783	1	Tissue	x					
264	9/10/2009	11:57	LPR8K-CS784	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Worrell	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2430	Date/Time:	Date/Time:
Rec'd by: S Worrell	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1715	Date/Time: 9/15/09 2102	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100925
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
265	9/10/2009	11:57	LPR8K-CS785	1	Tissue	x					
266	9/10/2009	11:57	LPR8K-CS786	1	Tissue	x					
267	9/10/2009	11:57	LPR8K-CS787	1	Tissue	x					
268	9/10/2009	12:03	LPR8K-CS788	1	Tissue	x					
269	9/10/2009	12:03	LPR8K-CS789	1	Tissue	x					
270	9/10/2009	13:02	LPR8S-CS790	1	Tissue	x					
271	9/10/2009	13:02	LPR8S-CS791	1	Tissue	x					
272	9/10/2009	13:02	LPR8S-CS792	1	Tissue	x					
273	9/10/2009	13:02	LPR8S-CS793	1	Tissue	x					
274	9/10/2009	13:02	LPR8S-CS794	1	Tissue	x					
275	9/10/2009	13:02	LPR8S-CS795	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha Alph	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 9/15/09 2:30	Date/Time:	Date/Time:
Rec'd by: S Wolff	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100926	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
276	9/10/2009	13:02	LPR8S-CS796	1	Tissue	x					
277	9/10/2009	13:02	LPR8S-CS797	1	Tissue	x					
278	9/10/2009	13:02	LPR8S-CS798	1	Tissue	x					
279	9/10/2009	10:35	LPR8Y-CS799	1	Tissue	x					
280	9/10/2009	10:35	LPR8Y-CS800	1	Tissue	x					
281	9/10/2009	8:40	LPR8Z-EO010	1	Tissue	x					
282	9/10/2009	9:55	LPR8Y-EO011	1	Tissue	x					
283	9/10/2009	13:02	LPR8S-IP010	1	Tissue	x					
284	9/10/2009	13:02	LPR8S-IP011	1	Tissue	x					
285	9/10/2009	13:02	LPR8S-IP012	1	Tissue	x					
286	9/10/2009	13:02	LPR8S-IP013	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolfe	3) ~~**Released by:**~~	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:
Rec'd by: S Wolfe	~~**Rec'd by:**~~	**Rec'd by:** N. Duclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 09100927
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
287	9/10/2009	8:38	LPR8V-MA167	1	Tissue	x					
288	9/10/2009	9:30	LPR8U-MA168	1	Tissue	x					
289	9/10/2009	9:30	LPR8U-MA169	1	Tissue	x					
290	9/10/2009	9:30	LPR8U-MA170	1	Tissue	x					
291	9/10/2009	9:30	LPR8U-MA171	1	Tissue	x					
292	9/10/2009	9:30	LPR8U-MA173	1	Tissue	x					
293	9/10/2009	9:30	LPR8U-MD009	1	Tissue	x					
294	9/10/2009	8:40	LPR8Z-MD010	1	Tissue	x					
295	9/10/2009	11:51	LPR8A-MS004	1	Tissue	x					
296	9/10/2009	10:11	LPR8W-MS005	1	Tissue	x					
297	9/10/2009	8:40	LPR8Z-OL002	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolff	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: S Wolff	**Rec'd by:**	**Rec'd by:** R. Auclair N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09100928	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
298	9/10/2009	9:55	LPR8Y-OL003	1	Tissue	x					
299	9/10/2009	9:55	LPR8Y-OL004	1	Tissue	x					
300	9/10/2009	9:15	LPR8Z-OL005	1	Tissue	x					
301	9/10/2009	9:55	LPR8Y-RB002	1	Tissue	x					
302	9/10/2009	9:55	LPR8Y-RB003	1	Tissue	x					
303	9/10/2009	9:55	LPR8Y-RB004	1	Tissue	x					
304	9/10/2009	9:55	LPR8Y-RB005	1	Tissue	x					
305	9/10/2009	11:15	LPR8R-SB006	1	Tissue	x					
	Total Number of Containers			305	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolfe	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:22	Date/Time:	Date/Time:
Rec'd by: S Wolfe	**Rec'd by:**	**Rec'd by:** N. Aucoin	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: acespher	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
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Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

209/3013

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0911091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/11/2009	11:03	LPR8Z-AR535	1	Tissue	x					
2	9/11/2009	11:03	LPR8Z-AR536	1	Tissue	x					
3	9/11/2009	11:03	LPR8Z-AR537	1	Tissue	x					
4	9/11/2009	11:03	LPR8Z-AR538	1	Tissue	x					
5	9/11/2009	11:03	LPR8Z-AR539	1	Tissue	x					
6	9/11/2009	11:03	LPR8Z-AR540	1	Tissue	x					
7	9/11/2009	11:03	LPR8Z-AR541	1	Tissue	x					
8	9/11/2009	11:03	LPR8Z-AR542	1	Tissue	x					
9	9/11/2009	11:03	LPR8Z-AR543	1	Tissue	x					
10	9/11/2009	11:03	LPR8Z-AR544	1	Tissue	x					
11	9/11/2009	11:03	LPR8Z-AR545	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Reclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1906	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/11/2009	11:03	LPR8Z-AR546	1	Tissue	x					
13	9/11/2009	11:03	LPR8Z-AR547	1	Tissue	x					
14	9/11/2009	11:03	LPR8Z-AR548	1	Tissue	x					
15	9/11/2009	11:03	LPR8Z-AR549	1	Tissue	x					
16	9/11/2009	11:03	LPR8Z-AR550	1	Tissue	x					
17	9/11/2009	11:03	LPR8Z-AR551	1	Tissue	x					
18	9/11/2009	11:03	LPR8Z-AR552	1	Tissue	x					
19	9/11/2009	11:03	LPR8Z-AR553	1	Tissue	x					
20	9/11/2009	11:03	LPR8Z-AR554	1	Tissue	x					
21	9/11/2009	11:03	LPR8Z-AR555	1	Tissue	x					
22	9/11/2009	11:03	LPR8Z-AR556	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/11/2009	11:03	LPR8Z-AR557	1	Tissue	x					
24	9/11/2009	11:03	LPR8Z-AR558	1	Tissue	x					
25	9/11/2009	11:03	LPR8Z-AR559	1	Tissue	x					
26	9/11/2009	11:03	LPR8Z-AR560	1	Tissue	x					
27	9/11/2009	11:03	LPR8Z-AR561	1	Tissue	x					
28	9/11/2009	11:03	LPR8Z-AR562	1	Tissue	x					
29	9/11/2009	11:03	LPR8Z-AR563	1	Tissue	x					
30	9/11/2009	11:03	LPR8Z-AR564	1	Tissue	x					
31	9/11/2009	11:03	LPR8Z-AR565	1	Tissue	x					
32	9/11/2009	11:03	LPR8Z-AR566	1	Tissue	x					
33	9/11/2009	11:03	LPR8Z-AR567	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 19:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/11/2009	11:03	LPR8Z-AR568	1	Tissue	x					
35	9/11/2009	11:03	LPR8Z-AR569	1	Tissue	x					
36	9/11/2009	11:03	LPR8Z-AR570	1	Tissue	x					
37	9/11/2009	11:03	LPR8Z-AR571	1	Tissue	x					
38	9/11/2009	11:03	LPR8Z-AR572	1	Tissue	x					
39	9/11/2009	11:03	LPR8Z-AR573	1	Tissue	x					
40	9/11/2009	11:03	LPR8Z-AR574	1	Tissue	x					
41	9/11/2009	11:03	LPR8Z-AR575	1	Tissue	x					
42	9/11/2009	11:03	LPR8Z-AR576	1	Tissue	x					
43	9/11/2009	11:03	LPR8Z-AR577	1	Tissue	x					
44	9/11/2009	11:03	LPR8Z-AR578	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:35	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/11/2009	11:03	LPR8Z-AR579	1	Tissue	x					
46	9/11/2009	11:03	LPR8Z-AR580	1	Tissue	x					
47	9/11/2009	11:03	LPR8Z-AR581	1	Tissue	x					
48	9/11/2009	11:03	LPR8Z-AR582	1	Tissue	x					
49	9/11/2009	11:03	LPR8Z-AR583	1	Tissue	x					
50	9/11/2009	11:03	LPR8Z-AR584	1	Tissue	x					
51	9/11/2009	11:03	LPR8Z-AR585	1	Tissue	x					
52	9/11/2009	11:03	LPR8Z-AR586	1	Tissue	x					
53	9/11/2009	11:03	LPR8Z-AR587	1	Tissue	x					
54	9/11/2009	11:03	LPR8Z-AR588	1	Tissue	x					
55	9/11/2009	11:03	LPR8Z-AR589	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2400	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/11/2009	11:03	LPR8Z-AR590	1	Tissue	x					
57	9/11/2009	11:03	LPR8Z-AR591	1	Tissue	x					
58	9/11/2009	11:03	LPR8Z-AR592	1	Tissue	x					
59	9/11/2009	11:03	LPR8Z-AR593	1	Tissue	x					
60	9/11/2009	11:03	LPR8Z-AR594	1	Tissue	x					
61	9/11/2009	11:03	LPR8Z-AR595	1	Tissue	x					
62	9/11/2009	11:03	LPR8Z-AR596	1	Tissue	x					
63	9/11/2009	11:03	LPR8Z-AR597	1	Tissue	x					
64	9/11/2009	11:03	LPR8Z-AR598	1	Tissue	x					
65	9/11/2009	11:03	LPR8Z-AR599	1	Tissue	x					
66	9/11/2009	11:03	LPR8Z-AR600	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by: S Wolk	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: S Wolk	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/11/09 1402	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/11/2009	11:03	LPR8Z-AR601	1	Tissue	x					
68	9/11/2009	11:03	LPR8Z-AR602	1	Tissue	x					
69	9/11/2009	11:03	LPR8Z-AR603	1	Tissue	x					
70	9/11/2009	11:03	LPR8Z-AR604	1	Tissue	x					
71	9/11/2009	11:03	LPR8Z-AR605	1	Tissue	x					
72	9/11/2009	11:03	LPR8Z-AR606	1	Tissue	x					
73	9/11/2009	11:03	LPR8Z-AR607	1	Tissue	x					
74	9/11/2009	11:03	LPR8Z-AR608	1	Tissue	x					
75	9/11/2009	11:03	LPR8Z-AR609	1	Tissue	x					
76	9/11/2009	11:03	LPR8Z-AR610	1	Tissue	x					
77	9/11/2009	11:03	LPR8Z-AR611	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** S Wolk	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by: S Wolk	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:30	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/11/2009	11:03	LPR8Z-AR612	1	Tissue	x					
79	9/11/2009	11:03	LPR8Z-AR613	1	Tissue	x					
80	9/11/2009	11:03	LPR8Z-AR614	1	Tissue	x					
81	9/11/2009	11:03	LPR8Z-AR615	1	Tissue	x					
82	9/11/2009	11:03	LPR8Z-AR616	1	Tissue	x					
83	9/11/2009	11:03	LPR8Z-AR617	1	Tissue	x					
84	9/11/2009	11:51	LPR8Y-AR618	1	Tissue	x					
85	9/11/2009	11:51	LPR8Y-AR619	1	Tissue	x					
86	9/11/2009	11:51	LPR8Y-AR620	1	Tissue	x					
87	9/11/2009	11:51	LPR8Y-AR621	1	Tissue	x					
88	9/11/2009	11:51	LPR8Y-AR622	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2300	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:30	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0911099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/11/2009	11:51	LPR8Y-AR623	1	Tissue	x					
90	9/11/2009	11:51	LPR8Y-AR624	1	Tissue	x					
91	9/11/2009	11:51	LPR8Y-AR625	1	Tissue	x					
92	9/11/2009	11:51	LPR8Y-AR626	1	Tissue	x					
93	9/11/2009	11:03	LPR8Z-EO012	1	Tissue	x					
94	9/11/2009	11:03	LPR8Z-EO013	1	Tissue	x					
95	9/11/2009	11:03	LPR8Z-EO014	1	Tissue	x					
96	9/11/2009	11:51	LPR8Y-MS006	1	Tissue	x					
97	9/11/2009	8:16	LPR8L-RB006	1	Tissue	x					
98	9/11/2009	11:51	LPR8Y-RB007	1	Tissue	x					
99	9/11/2009	11:51	LPR8Y-RB008	1	Tissue	x					
	Total Number of Containers			99	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 09/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1800	Date/Time: 9/15/09 17:30	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0913020

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0912091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/12/2009	7:58	LPR8U-AR627	1	Tissue	x					
2	9/12/2009	8:30	LPR8D-AR628	1	Tissue	x					
3	9/12/2009	8:30	LPR8D-AR629	1	Tissue	x					
4	9/12/2009	10:57	LPR8X-AR630	1	Tissue	x					
5	9/12/2009	11:16	LPR8W-AR631	1	Tissue	x					
6	9/12/2009	11:16	LPR8W-AR632	1	Tissue	x					
7	9/12/2009	9:35	LPR8V-AR633	1	Tissue	x					
8	9/12/2009	9:35	LPR8V-AR634	1	Tissue	x					
9	9/12/2009	9:35	LPR8V-AR635	1	Tissue	x					
10	9/12/2009	9:35	LPR8V-AR636	1	Tissue	x					
11	9/12/2009	9:35	LPR8V-AR637	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by: S Woelf	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 21:00	Date/Time:	Date/Time:
Rec'd by: S Woelf	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

Windward environmental LLC
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0912092
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/12/2009	9:35	LPR8V-AR638	1	Tissue	x					
13	9/12/2009	9:35	LPR8V-AR639	1	Tissue	x					
14	9/12/2009	9:35	LPR8V-AR640	1	Tissue	x					
15	9/12/2009	9:35	LPR8V-AR641	1	Tissue	x					
16	9/12/2009	9:35	LPR8V-AR642	1	Tissue	x					
17	9/12/2009	9:35	LPR8V-AR643	1	Tissue	x					
18	9/12/2009	9:35	LPR8V-AR644	1	Tissue	x					
19	9/12/2009	7:58	LPR8U-CC139	1	Tissue	x					
20	9/12/2009	7:58	LPR8U-CC140	1	Tissue	x					
21	9/12/2009	7:58	LPR8U-CC141	1	Tissue	x					
22	9/12/2009	8:45	LPR8R-CC142	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0912093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/12/2009	9:35	LPR8V-CC143	1	Tissue	x					
24	9/12/2009	10:57	LPR8X-CC144	1	Tissue	x					
25	9/12/2009	10:57	LPR8X-CC145	1	Tissue	x					
26	9/12/2009	10:57	LPR8X-CC146	1	Tissue	x					
27	9/12/2009	10:57	LPR8X-CC147	1	Tissue	x					
28	9/12/2009	12:00	LPR8S-CC148	1	Tissue	x					
29	9/12/2009	12:00	LPR8S-CC149	1	Tissue	x					
30	9/12/2009	12:00	LPR8S-CC150	1	Tissue	x					
31	9/12/2009	12:00	LPR8S-CC151	1	Tissue	x					
32	9/12/2009	7:58	LPR8U-CS801	1	Tissue	x					
33	9/12/2009	7:41	LPR8K-CS802	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0912094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/12/2009	7:41	LPR8K-CS803	1	Tissue	x					
35	9/12/2009	8:25	LPR8J-CS804	1	Tissue	x					
36	9/12/2009	8:22	LPR8J-CS805	1	Tissue	x					
37	9/12/2009	7:38	LPR8K-CS806	1	Tissue	x					
38	9/12/2009	7:47	LPR8H-CS807	1	Tissue	x					
39	9/12/2009	8:45	LPR8R-CS808	1	Tissue	x					
40	9/12/2009	8:45	LPR8R-CS809	1	Tissue	x					
41	9/12/2009	9:35	LPR8V-CS810	1	Tissue	x					
42	9/12/2009	9:35	LPR8V-CS811	1	Tissue	x					
43	9/12/2009	9:35	LPR8V-CS812	1	Tissue	x					
44	9/12/2009	9:35	LPR8V-CS813	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Sinclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1700	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0912095
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/12/2009	9:35	LPR8V-CS814	1	Tissue	x					
46	9/12/2009	11:16	LPR8W-CS815	1	Tissue	x					
47	9/12/2009	12:00	LPR8S-CS816	1	Tissue	x					
48	9/12/2009	12:00	LPR8S-CS817	1	Tissue	x					
49	9/12/2009	10:02	LPR8M-CS818	1	Tissue	x					
50	9/12/2009	10:02	LPR8M-CS819	1	Tissue	x					
51	9/12/2009	10:07	LPR8M-CS820	1	Tissue	x					
52	9/12/2009	10:50	LPR8L-CS821	1	Tissue	x					
53	9/12/2009	10:57	LPR8X-DC001	1	Tissue	x					
54	9/12/2009	10:57	LPR8X-DC002	1	Tissue	x					
55	9/12/2009	11:16	LPR8W-EO015	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/5/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/5/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0912096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/12/2009	9:35	LPR8V-MA174	1	Tissue	x					
57	9/12/2009	9:35	LPR8V-MA175	1	Tissue	x					
58	9/12/2009	9:35	LPR8V-MA176	1	Tissue	x					
59	9/12/2009	9:35	LPR8V-MA177	1	Tissue	x					
60	9/12/2009	9:35	LPR8V-MA178	1	Tissue	x					
61	9/12/2009	9:35	LPR8V-MA179	1	Tissue	x					
62	9/12/2009	9:35	LPR8V-MA180	1	Tissue	x					
63	9/12/2009	9:35	LPR8V-MA181	1	Tissue	x					
64	9/12/2009	9:35	LPR8V-MA182	1	Tissue	x					
65	9/12/2009	9:35	LPR8V-MA183	1	Tissue	x					
66	9/12/2009	9:35	LPR8V-MA184	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2120	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Hurlair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0912097
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/12/2009	9:35	LPR8V-MA185	1	Tissue	x					
68	9/12/2009	9:35	LPR8V-MA186	1	Tissue	x					
69	9/12/2009	9:35	LPR8V-MA187	1	Tissue	x					
70	9/12/2009	9:35	LPR8V-MA188	1	Tissue	x					
71	9/12/2009	9:35	LPR8V-MA189	1	Tissue	x					
72	9/12/2009	9:35	LPR8V-MA190	1	Tissue	x					
73	9/12/2009	9:35	LPR8V-MA191	1	Tissue	x					
74	9/12/2009	9:35	LPR8V-MA192	1	Tissue	x					
75	9/12/2009	9:35	LPR8V-MD011	1	Tissue	x					
76	9/12/2009	11:16	LPR8W-MD012	1	Tissue	x					
77	9/12/2009	9:35	LPR8V-SB007	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2130	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/15/09 1800	Date/Time: 9/17/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**		No. LPR 0912098
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/12/2009	9:35	LPR8V-SB008	1	Tissue	x					
79	9/12/2009	9:35	LPR8V-SB009	1	Tissue	x					
80	9/12/2009	9:35	LPR8V-SB010	1	Tissue	x					
81	9/12/2009	9:35	LPR8V-SB011	1	Tissue	x					
82	9/12/2009	9:35	LPR8V-SB012	1	Tissue	x					
83	9/12/2009	9:35	LPR8V-WS006	1	Tissue	x					
84	9/12/2009	9:35	LPR8V-WS007	1	Tissue	x					
85	9/12/2009	9:35	LPR8V-WS008	1	Tissue	x					
86	9/12/2009	9:35	LPR8V-WS009	1	Tissue	x					
87	9/12/2009	10:57	LPR8X-WS010	1	Tissue	x					
88	9/12/2009	10:57	LPR8X-WS011	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09 17:50	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0912099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/12/2009	10:57	LPR8X-WS012	1	Tissue	x					
90	9/12/2009	11:16	LPR8W-WS013	1	Tissue	x					
91	9/12/2009	11:16	LPR8W-WS014	1	Tissue	x					
92	9/12/2009	11:16	LPR8W-WS015	1	Tissue	x					
93	9/12/2009	11:16	LPR8W-WS016	1	Tissue	x					
94	9/12/2009	11:16	LPR8W-WS017	1	Tissue	x					
95	9/12/2009	11:16	LPR8W-WS018	1	Tissue	x					
			Total Number of Containers	95	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/15/09 1400	Date/Time: 9/15/09	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:
Rec'd by: 9/15/09	**Rec'd by:**	**Rec'd by:** N. Aucoin	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 1400	Date/Time: 9/15/09 1750	Date/Time: 9/15/09 2100	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913206

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0915091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/15/2009	9:53	LPR4L-CC152	1	Tissue	x					
2	9/15/2009	8:34	LPR5I-CS822	1	Tissue	x					
3	9/15/2009	9:38	LPR4O-CS823	1	Tissue	x					
4	9/15/2009	9:53	LPR4L-CS824	1	Tissue	x					
5	9/15/2009	9:53	LPR4L-CS825	1	Tissue	x					
6	9/15/2009	9:53	LPR4L-CS826	1	Tissue	x					
7	9/15/2009	9:46	LPR5O-CS827	1	Tissue	x					
8	9/15/2009	10:00	LPR6F-CS828	1	Tissue	x					
9	9/15/2009	9:46	LPR5O-CS829	1	Tissue	x					
10	9/15/2009	10:13	LPR6G-CS830	1	Tissue	x					
11	9/15/2009	9:46	LPR5O-CS831	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha Analytical	Company: Alpha	Company: Alpha	Company:
Date/Time: 9.17.09/0745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09	Date/Time: 9/18 ~~23:30~~ 02:30	Date/Time:
Rec'd by: Kevin Hoogerlyde	Rec'd by: Scott Lecaire	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha ~~23:30~~	Company: Alpha	Company:
Date/Time: 9/17/09 745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09	Date/Time: 9/18/09 2:00	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0915092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/15/2009	9:49	LPR5O-CS832	1	Tissue	x					
13	9/15/2009	10:09	LPR6G-CS833	1	Tissue	x					
14	9/15/2009	9:49	LPR5O-CS834	1	Tissue	x					
15	9/15/2009	9:49	LPR5O-CS835	1	Tissue	x					
16	9/15/2009	10:13	LPR6G-CS836	1	Tissue	x					
17	9/15/2009	8:50	LPR4H-CS837	1	Tissue	x					
18	9/15/2009	8:55	LPR4H-CS838	1	Tissue	x					
19	9/15/2009	10:09	LPR6G-CS839	1	Tissue	x					
20	9/15/2009	9:58	LPR6F-CS840	1	Tissue	x					
21	9/15/2009	10:00	LPR6F-CS841	1	Tissue	x					
22	9/15/2009	9:35	LPR5M-EO016	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha Analytical	Company:	Company:	Company:
Date/Time: 09.17.09/ 0745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09	Date/Time: 9/18/09 02:30	Date/Time:
Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company: alpha	Company:
Date/Time: 9/17/09 7:45	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09 23:30	Date/Time: 9/18/09 2:00	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0915093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Mara Irby	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/15/2009	9:23	LPR4P-MA193	1	Tissue	x					
24	9/15/2009	9:53	LPR4L-SB013	1	Tissue	x					
25	9/15/2009	8:34	LPR5I-WS019	1	Tissue	x					
					Tissue						
					Tissue						
					Tissue						
					Tissue						
					Tissue						
					Tissue						
					Tissue						
					Tissue						
	Total Number of Containers			25	Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company: Alpha Analytical	Company: Alpha	Company:	Company:
Date/Time: 09.17.09/0745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09	Date/Time: 9/18 by 0230	Date/Time:
Rec'd by: Kevin Hoogheyde	**Rec'd by:** Scott Wolfe	**Rec'd by:**	**Rec'd by:** N. Auclair	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha 23:30	Company: Alpha	Company:
Date/Time: 9/17/09 7:45	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09 2400	Date/Time: 9/18/09 2:00	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913207

Project/Client Name:	Passaic RI/FS Tissue	Ship to:	Alpha Analytical		No. LPR 0916091
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Suzanne Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/16/2009	1008	LPR4O-AN007	1	Tissue	x					
2	9/16/2009	0909	LPR5I-CC153	1	Tissue	x					
3	9/16/2009	1008	LPR4O-CS842	1	Tissue	x					
4	9/16/2009	1008	LPR4O-CS843	1	Tissue	x					
5	9/16/2009	1028	LPR4L-CS844	1	Tissue	x					
6	9/16/2009	0911	LPR4H-CS845	1	Tissue	x					
7	9/16/2009	1000	LPR5O-CS846	1	Tissue	x					
8	9/16/2009	1000	LPR5O-CS847	1	Tissue	x					
9	9/16/2009	1000	LPR5O-CS848	1	Tissue	x					
10	9/16/2009	1008	LPR6F-CS849	1	Tissue	x					
11	9/16/2009	1008	LPR6F-CS850	1	Tissue	x					
			Total Number of Containers		Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Kevin Hoogahyde Alpha Analytical	Company: Alpha	Company: Alpha	Company:
Date/Time: 09.17.09/0745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09	Date/Time: 9/18/09 02:00	Date/Time:
Rec'd by: Kevin Hoogahyde	Rec'd by: Scott Wolf	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company: alpha	Company:
Date/Time: 9/17/09 7:45	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09 23:30	Date/Time: 9/18/09 2:00	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0916092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Suzanne Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/16/2009	1010	LPR6F-CS851	1	Tissue	x					
13	9/16/2009	1010	LPR6F-CS852	1	Tissue	x					
14	9/16/2009	1017	LPR6G-CS853	1	Tissue	x					
15	9/16/2009	1022	LPR6H-CS854	1	Tissue	x					
16	9/16/2009	1025	LPR6H-CS855	1	Tissue	x					
17	9/16/2009	1025	LPR6H-CS856	1	Tissue	x					
18	9/16/2009	1022	LPR6H-MA194	1	Tissue	x					
	9/16/2009										
	9/16/2009										
	9/16/2009										
	9/16/2009										
	Total Number of Containers				Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company: Alpha Analytical	Company: Alpha	Company: Alpha	Company:
Date/Time: 09.17.09/0745	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09 23:30	Date/Time: 9/18/09 0230	Date/Time:
Rec'd by: Kevin Hoogheyde	Rec'd by: Scott Wolfe	Rec'd by:	Rec'd by: N. Auclair	Rec'd by:
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company: Alpha	Company:
Date/Time: 9/17/09 17:45	Date/Time: 9/17/09 9:00	Date/Time: 9/17/09 23:30	Date/Time: 9/18/09 2:00	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913787

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0917091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Suzanne Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/17/2009	1105	LPR4L-AC023	1	Tissue	x					
2	9/17/2009	1025	LPR4P-CC154	1	Tissue	x					
3	9/17/2009	1049	LPR4O-CC155	1	Tissue	x					
4	9/17/2009	1105	LPR4L-CC156	1	Tissue	x					
5	9/17/2009	1004	LPR5E-CS857	1	Tissue	x					
6	9/17/2009	1025	LPR4P-CS858	1	Tissue	x					
7	9/17/2009	1025	LPR4P-CS859	1	Tissue	x					
8	9/17/2009	1138	LPR6G-CS860	1	Tissue	x					
9	9/17/2009	1149	LPR6H-CS861	1	Tissue	x					
10	9/17/2009	1113	LPR5O-CS862	1	Tissue	x					
11	9/17/2009	1138	LPR6G-CS863	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913787

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0917092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Suzanne Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/17/2009	1136	LPR6G-CS864	1	Tissue	x					
13	9/17/2009	1127	LPR6F-CS865	1	Tissue	x					
14	9/17/2009	1127	LPR6F-CS866	1	Tissue	x					
15	9/17/2009	1110	LPR5O-CS867	1	Tissue	x					
16	9/17/2009	1101	LPR5M-CS868	1	Tissue	x					
17	9/17/2009	1138	LPR6G-CS869	1	Tissue	x					
18	9/17/2009	1113	LPR5O-CS870	1	Tissue	x					
19	9/17/2009	1127	LPR6F-CS871	1	Tissue	x					
20	9/17/2009	0952	LPR5I-MA195	1	Tissue	x					
21	9/17/2009	0952	LPR5I-MA196	1	Tissue	x					
22	9/17/2009	1004	LPR5E-MA197	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09 0835	Date/Time: 9/21/09	Date/Time: 9/21/09 1830	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/01/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 3

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913787

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0917092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Suzanne Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/17/2009	1004	LPR5E-MA198	1	Tissue	x					
24	9/17/2009	1025	LPR4P-MA199	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21/09	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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Seattle, WA 98119
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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 13

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/18/2009	11:15	LPR5S-AC024	1	Tissue	x					
2	9/18/2009	10:35	LPR5R-CC157	1	Tissue	x					
3	9/18/2009	10:35	LPR5R-CC158	1	Tissue	x					
4	9/18/2009	10:35	LPR5R-CC159	1	Tissue	x					
5	9/18/2009	10:35	LPR5R-CC160	1	Tissue	x					
6	9/18/2009	10:35	LPR5R-CC161	1	Tissue	x					
7	9/18/2009	10:35	LPR5R-CC162	1	Tissue	x					
8	9/18/2009	10:35	LPR5R-CC163	1	Tissue	x					
9	9/18/2009	11:15	LPR5S-CC166	1	Tissue	x					
10	9/18/2009	11:15	LPR5S-CC167	1	Tissue	x					
11	9/18/2009	11:15	LPR5S-CC168	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21/09	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 8/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 13

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/18/2009	11:15	LPR5S-CC169	1	Tissue	x					
13	9/18/2009	11:15	LPR5S-CC170	1	Tissue	x					
14	9/18/2009	11:57	LPR5T-CC172	1	Tissue	x					
15	9/18/2009	13:19	LPR4R-CC173	1	Tissue	x					
16	9/18/2009	13:19	LPR4R-CC174	1	Tissue	x					
17	9/18/2009	13:50	LPR4S-CC175	1	Tissue	x					
18	9/18/2009	13:50	LPR4S-CC176	1	Tissue	x					
19	9/18/2009	13:50	LPR4S-CC177	1	Tissue	x					
20	9/18/2009	14:10	LPR4T-CC178	1	Tissue	x					
21	9/18/2009	9:34	LPR4H-CS872	1	Tissue	x					
22	9/18/2009	11:11	LPR4G-CS873	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21/09	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/18/2009	12:06	LPR6F-CS874	1	Tissue	x					
24	9/18/2009	12:06	LPR6F-CS875	1	Tissue	x					
25	9/18/2009	12:06	LPR6F-CS876	1	Tissue	x					
26	9/18/2009	13:30	LPR4G-CS877	1	Tissue	x					
27	9/18/2009	13:30	LPR4G-CS878	1	Tissue	x					
28	9/18/2009	12:10	LPR6F-CS879	1	Tissue	x					
29	9/18/2009	12:19	LPR6G-CS880	1	Tissue	x					
30	9/18/2009	13:57	LPR5O-CS881	1	Tissue	x					
31	9/18/2009	13:45	LPR5M-CS882	1	Tissue	x					
32	9/18/2009	13:57	LPR5O-CS883	1	Tissue	x					
33	9/18/2009	13:45	LPR5M-CS884	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time:	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/18/2009	10:35	LPR5R-EL002	1	Tissue	x					
35	9/18/2009	11:15	LPR5S-FD001	1	Tissue	x					
36	9/18/2009	11:15	LPR5S-FD002	1	Tissue	x					
37	9/18/2009	11:15	LPR5S-FD003	1	Tissue	x					
38	9/18/2009	10:10	LPR5Q-FD004	1	Tissue	x					
39	9/18/2009	10:10	LPR5Q-FD005	1	Tissue	x					
40	9/18/2009	10:10	LPR5Q-FD006	1	Tissue	x					
41	9/18/2009	10:10	LPR5Q-FD007	1	Tissue	x					
42	9/18/2009	10:10	LPR5Q-FD008	1	Tissue	x					
43	9/18/2009	10:10	LPR5Q-FD009	1	Tissue	x					
44	9/18/2009	10:10	LPR5Q-FD010	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21/09	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/21/09 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/18/2009	10:10	LPR5Q-FD011	1	Tissue	x					
46	9/18/2009	10:10	LPR5Q-FD012	1	Tissue	x					
47	9/18/2009	10:10	LPR5Q-FD013	1	Tissue	x					
48	9/18/2009	10:10	LPR5Q-FD014	1	Tissue	x					
49	9/18/2009	10:10	LPR5Q-FD015	1	Tissue	x					
50	9/18/2009	10:10	LPR5Q-FD016	1	Tissue	x					
51	9/18/2009	10:10	LPR5Q-FD017	1	Tissue	x					
52	9/18/2009	10:10	LPR5Q-FD018	1	Tissue	x					
53	9/18/2009	10:10	LPR5Q-FD019	1	Tissue	x					
54	9/18/2009	10:10	LPR5Q-FD020	1	Tissue	x					
55	9/18/2009	10:10	LPR5Q-FD021	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pan	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pan	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: Alpha	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918096	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
56	9/18/2009	10:10	LPR5Q-FD022	1	Tissue	x					
57	9/18/2009	10:10	LPR5Q-FD023	1	Tissue	x					
58	9/18/2009	10:10	LPR5Q-FD024	1	Tissue	x					
59	9/18/2009	10:10	LPR5Q-FD025	1	Tissue	x					
60	9/18/2009	10:10	LPR5Q-FD026	1	Tissue	x					
61	9/18/2009	10:10	LPR5Q-FD027	1	Tissue	x					
62	9/18/2009	10:10	LPR5Q-FD028	1	Tissue	x					
63	9/18/2009	10:10	LPR5Q-FD029	1	Tissue	x					
64	9/18/2009	10:10	LPR5Q-FD030	1	Tissue	x					
65	9/18/2009	10:10	LPR5Q-FD031	1	Tissue	x					
66	9/18/2009	10:10	LPR5Q-FD032	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by: B Pan	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918097	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
67	9/18/2009	10:10	LPR5Q-FD033	1	Tissue	x					
68	9/18/2009	10:10	LPR5Q-FD034	1	Tissue	x					
69	9/18/2009	10:10	LPR5Q-FD035	1	Tissue	x					
70	9/18/2009	10:10	LPR5Q-FD036	1	Tissue	x					
71	9/18/2009	10:10	LPR5Q-FD037	1	Tissue	x					
72	9/18/2009	10:10	LPR5Q-FD038	1	Tissue	x					
73	9/18/2009	10:10	LPR5Q-FD039	1	Tissue	x					
74	9/18/2009	10:10	LPR5Q-FD040	1	Tissue	x					
75	9/18/2009	9:35	LPR5I-MA200	1	Tissue	x					
76	9/18/2009	10:35	LPR5R-MA201	1	Tissue	x					
77	9/18/2009	10:35	LPR5R-MA202	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ACP HP	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

20913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918098	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
78	9/18/2009	10:35	LPR5R-MA203	1	Tissue	x					
79	9/18/2009	10:35	LPR5R-MA204	1	Tissue	x					
80	9/18/2009	10:35	LPR5R-MA205	1	Tissue	x					
81	9/18/2009	10:35	LPR5R-MA206	1	Tissue	x					
82	9/18/2009	10:35	LPR5R-MA207	1	Tissue	x					
83	9/18/2009	10:35	LPR5R-MA208	1	Tissue	x					
84	9/18/2009	10:35	LPR5R-MA209	1	Tissue	x					
85	9/18/2009	10:35	LPR5R-MA210	1	Tissue	x					
86	9/18/2009	11:15	LPR5S-MA211	1	Tissue	x					
87	9/18/2009	11:15	LPR5S-MA212	1	Tissue	x					
88	9/18/2009	11:15	LPR5S-MA213	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pa	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/24 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0918099	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
89	9/18/2009	11:42	LPR5E-MA214	1	Tissue	x					
90	9/18/2009	13:00	LPR4L-MA215	1	Tissue	x					
91	9/18/2009	13:19	LPR4R-MA216	1	Tissue	x					
92	9/18/2009	13:19	LPR4R-MA217	1	Tissue	x					
93	9/18/2009	13:19	LPR4R-MA218	1	Tissue	x					
94	9/18/2009	13:19	LPR4R-MA219	1	Tissue	x					
95	9/18/2009	13:50	LPR4S-MA220	1	Tissue	x					
96	9/18/2009	13:50	LPR4S-MA221	1	Tissue	x					
97	9/18/2009	13:50	LPR4S-MA222	1	Tissue	x					
98	9/18/2009	13:50	LPR4S-MA223	1	Tissue	x					
99	9/18/2009	13:50	LPR4S-MA224	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1830	Date/Time:	Date/Time:
Rec'd by: B Pan	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time 9/21/09 1820	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical** No. LPR 09180910
Project Number:	09.58.02.31	Attn:	Peter Henriksen Shipping Date:
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up Airbill Number: N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason Turnaround requested: Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
100	9/18/2009	14:10	LPR4T-MA225	1	Tissue	x					
101	9/18/2009	14:10	LPR4T-MA226	1	Tissue	x					
102	9/18/2009	14:10	LPR4T-MA227	1	Tissue	x					
103	9/18/2009	14:10	LPR4T-MA228	1	Tissue	x					
104	9/18/2009	14:10	LPR4T-MA229	1	Tissue	x					
105	9/18/2009	14:10	LPR4T-MA230	1	Tissue	x					
106	9/18/2009	14:10	LPR4T-MA231	1	Tissue	x					
107	9/18/2009	14:10	LPR4T-MA232	1	Tissue	x					
108	9/18/2009	11:57	LPR5T-MA233	1	Tissue	x					
109	9/18/2009	11:57	LPR5T-MA234	1	Tissue	x					
110	9/18/2009	11:57	LPR5T-MA235	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pa	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09 0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0913789

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09180911	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
111	9/18/2009	11:57	LPR5T-MA236	1	Tissue	x					
112	9/18/2009	11:57	LPR5T-MA237	1	Tissue	x					
113	9/18/2009	11:57	LPR5T-MA238	1	Tissue	x					
114	9/18/2009	11:57	LPR5T-MA239	1	Tissue	x					
115	9/18/2009	11:57	LPR5T-MA240	1	Tissue	x					
116	9/18/2009	11:57	LPR5T-MA241	1	Tissue	x					
117	9/18/2009	11:57	LPR5T-MA242	1	Tissue	x					
118	9/18/2009	11:57	LPR5T-MA243	1	Tissue	x					
119	9/18/2009	11:57	LPR5T-MA244	1	Tissue	x					
120	9/18/2009	11:57	LPR5T-MA245	1	Tissue	x					
121	9/18/2009	11:57	LPR5T-MA246	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:** B Pa	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09180912	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
122	9/18/2009	11:57	LPR5T-MA247	1	Tissue	x					
123	9/18/2009	11:57	LPR5T-MA248	1	Tissue	x					
124	9/18/2009	14:10	LPR4T-MA249	1	Tissue	x					
125	9/18/2009	10:35	LPR5R-MD013	1	Tissue	x					
126	9/18/2009	13:50	LPR4S-MD014	1	Tissue	x					
127	9/18/2009	10:10	LPR5Q-MS007	1	Tissue	x					
128	9/18/2009	10:35	LPR5R-MS008	1	Tissue	x					
129	9/18/2009	10:35	LPR5R-MS009	1	Tissue	x					
130	9/18/2009	10:35	LPR5R-MS010	1	Tissue	x					
131	9/18/2009	13:50	LPR4S-MS011	1	Tissue	x					
132	9/18/2009	14:10	LPR4T-MS012	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1830	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913789

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 09180913	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
133	9/18/2009	12:24	LPR6H-RB009	1	Tissue	x					
134	9/18/2009	11:57	LPR5T-SB014	1	Tissue	x					
135	9/18/2009	14:10	LPR4T-SB015	1	Tissue	x					
136	9/18/2009	11:57	LPR5T-WS020	1	Tissue	x					
137	9/18/2009	11:57	LPR5T-WS021	1	Tissue	x					
138	9/18/2009	13:50	LPR4S-WS022	1	Tissue	x					
139	9/18/2009	14:10	LPR4T-WS023	1	Tissue	x					
140	9/18/2009	11:15	LPR5S-CC165	1	Tissue	x					
						x					
						x					
						x					
	Total Number of Containers			140	Purchase Order / Statement of Work #						

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by: B Pm	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/24 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/22/09 1820	Date/Time:	Date/Time:

Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt::	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913792

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0919091	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
1	9/19/2009	8:48	LPR6F-AR645	1	Tissue	x					
2	9/19/2009	10:27	LPR1G-AR646	1	Tissue	x					
3	9/19/2009	9:35	LPR5Q-CC179	1	Tissue	x					
4	9/19/2009	11:00	LPR5S-CC180	1	Tissue	x					
5	9/19/2009	11:00	LPR5S-CC181	1	Tissue	x					
6	9/19/2009	11:00	LPR5S-CC182	1	Tissue	x					
7	9/19/2009	11:33	LPR5T-CC183	1	Tissue	x					
8	9/19/2009	11:33	LPR5T-CC184	1	Tissue	x					
9	9/19/2009	11:33	LPR5T-CC185	1	Tissue	x					
10	9/19/2009	12:10	LPR4T-CC186	1	Tissue	x					
11	9/19/2009	13:59	LPR4R-CC187	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/24/09 1820	Date/Time:	Date/Time:

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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913792

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0919092	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
12	9/19/2009	14:24	LPR4S-CC188	1	Tissue	x					
13	9/19/2009	8:59	LPR5O-CS885	1	Tissue	x					
14	9/19/2009	8:48	LPR6F-CS886	1	Tissue	x					
15	9/19/2009	9:16	LPR5M-CS887	1	Tissue	x					
16	9/19/2009	9:16	LPR5M-CS888	1	Tissue	x					
17	9/19/2009	9:12	LPR5M-CS889	1	Tissue	x					
18	9/19/2009	15:05	LPR4G-CS890	1	Tissue	x					
19	9/19/2009	12:12	LPR6G-CS891	1	Tissue	x					
20	9/19/2009	15:05	LPR4G-CS892	1	Tissue	x					
21	9/19/2009	10:12	LPR5R-DC004	1	Tissue	x					
22	9/19/2009	8:59	LPR5O-IP014	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09 / 0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913792

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0919093	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
23	9/19/2009	9:35	LPR5Q-MA250	1	Tissue	x					
24	9/19/2009	9:35	LPR5Q-MA251	1	Tissue	x					
25	9/19/2009	9:35	LPR5Q-MA252	1	Tissue	x					
26	9/19/2009	10:12	LPR5R-MA253	1	Tissue	x					
27	9/19/2009	10:12	LPR5R-MA254	1	Tissue	x					
28	9/19/2009	10:12	LPR5R-MA255	1	Tissue	x					
29	9/19/2009	10:12	LPR5R-MA256	1	Tissue	x					
30	9/19/2009	10:12	LPR5R-MA257	1	Tissue	x					
31	9/19/2009	10:12	LPR5R-MA258	1	Tissue	x					
32	9/19/2009	10:40	LPR5E-MA259	1	Tissue	x					
33	9/19/2009	11:00	LPR5S-MA260	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by: B Pa	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

L0913792

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0919094	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
34	9/19/2009	12:10	LPR4T-MA261	1	Tissue	x					
35	9/19/2009	12:10	LPR4T-MA262	1	Tissue	x					
36	9/19/2009	12:10	LPR4T-MA263	1	Tissue	x					
37	9/19/2009	12:10	LPR4T-MA264	1	Tissue	x					
38	9/19/2009	14:24	LPR4S-MA265	1	Tissue	x					
39	9/19/2009	14:24	LPR4S-MA266	1	Tissue	x					
40	9/19/2009	14:24	LPR4S-MA267	1	Tissue	x					
41	9/19/2009	14:37	LPR6H-MA268	1	Tissue	x					
42	9/19/2009	9:05	LPR5I-MA269	1	Tissue	x					
43	9/19/2009	9:35	LPR5Q-MD015	1	Tissue	x					
44	9/19/2009	11:33	LPR5T-MD016	1	Tissue	x					
	Total Number of Containers				Purchase Order / Statement of Work #						

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1800	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company: ALPHA	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of 5

CHAIN-OF-CUSTODY/TEST REQUEST FORM

L0913792

Project/Client Name:	**Passaic RI/FS Tissue**	Ship to:	**Alpha Analytical**	No. LPR 0919095	
Project Number:	09.58.02.31	Attn:	Peter Henriksen	Shipping Date:	
Contact Name:	Jennifer Parker	Shipper:	Lab Pick-up	Airbill Number:	N/A
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	Karen Tobiason	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive					Comments / Instructions [Jar tag number(s)]
45	9/19/2009	14:24	LPR4S-MD017	1	Tissue	x					
46	9/20/2009	9:35	LPR5Q-MS013	1	Tissue	x					
47	9/19/2009	9:35	LPR5Q-MS014	1	Tissue	x					
48	9/19/2009	10:12	LPR5R-MS015	1	Tissue	x					
49	9/19/2009	10:12	LPR5R-MS016	1	Tissue	x					
50	9/19/2009	13:59	LPR4R-MS017	1	Tissue	x					
51	9/19/2009	11:00	LPR5S-MS018	1	Tissue	x					
52	9/19/2009	10:55	LPR1H-SB016	1	Tissue	x					
53	9/19/2009	14:24	LPR4S-SB017	1	Tissue	x					
54	9/19/2009	14:24	LPR4S-SB018	1	Tissue	x					
55	9/19/2009	11:33	LPR5T-WS024	1	Tissue	x					
	Total Number of Containers			55	Purchase Order / Statement of Work #						

1) **Released By:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company: Alpha	Company:	Company:
Date/Time: 09.21.09/0835	Date/Time: 9/21	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **Alpha Analytical**	Company: Alpha	Company:	Company:	Company:
Date/Time: 9/21 8:35	Date/Time: 9/21/09 1500	Date/Time: 9/21/09 1820	Date/Time:	Date/Time:

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