USF: BASELINE FOR IMPACT ASSESSMENT OF ZOOPLANKTON AND IMAGING OIL DROPLET DETECTION ON THE WEST FLORIDA SHELF

Dr. Kendra L. Daly

SCIENCE ACTIVITIES

1) General Summary

Narrative (1 pages maximum): Please provide a brief overview of the project and goals supported during the conduct of this project. Be sure to highlight any 'lessons learned' that could be applied to the conduct of RFP-I and RFP-II projects (e.g., management, data support, logistics, etc.). Listing accomplishments against project activities, objectives and milestones in bulleted form is acceptable.

This proposal addresses Category 2. Conduct baseline studies and impact assessments to provide the basis for long-term monitoring. We proposed to:

(1) Establish a baseline of the annual abundance and distribution of zooplankton in the northern Gulf of Mexico and west Florida shelf using the towed SIPPER imaging system and net tows (Daly: USF-Marine Science)

Accomplishments: We have completed all eight of the FIO-BP funded field cruises (Table 1), for a total of 15 cruises (seven cruises funded by other sources) since May 2010. In addition, three other cruises were funded by NRDA/NOAA, but the data are currently embargoed for litigation. Figures 1 and 2 show the location of sampling stations. As part of this final report, we are submitting analyzed CTD, chlorophyll, and SIPPER data for ten cruises (see Section 7). Zooplankton bongo data are submitted for all cruises through November 2011.

(2) Develop new algorithms and image pattern recognition software to adapt the SIPPER for automated oil droplet sensing, as well as software development for improved zooplankton recognition in water with oil present (Goldgof, Kasturi, Hall: USF-Computer Science & Engineering)

Accomplishments: We developed an in situ image-based approach to help assess the consequences of oil spills in the maritime environment. The approach is based on visual detection of suspected oil droplets/fish eggs in the water column adjacent to the oil spill area. We generalized the methodology that was successfully used for plankton classification using the SIPPER (Shadow Imaging Particle Profiler and Evaluation Recorder) underwater sensor.

(3) Conduct preliminary laboratory toxicity studies on lethal and sublethal oil toxic effects of untreated and dispersed MC-252 crude oil water-accommodated fractions on dominant and ecologically relevant northeast Gulf of Mexico zooplankton species (Cohen: University of Delaware)

Accomplishments: Laboratory and shipboard toxicology studies with zooplankton from the Gulf of Mexico were conducted over the 2-year project to assess relative lethal and sublethal effects of Corexit 9500A dispersant, and the water accommodated fractions of MC-252 crude oil (WAF) and chemically-dispersed crude oil (CE-WAF). A series of laboratory experiments with an abundant zooplankter in coastal waters of the Gulf of Mexico (the copepod *Labidocera aestiva*) was used to establish 24 and 48 h median lethal concentrations (24 and 48-h LC_{50}) of these solutions for use in shipboard studies, and to test for acute sublethal effects on swimming behavior. Additional laboratory investigation focused on dispersant effects in the ctenophore *Mnemiopsis leidyi*, establishing lethal levels (24 and 48h LC_{50}s) and exposure effects with additional endpoints (respiration rate and bioluminescence emission). Shipboard toxicity experiments employing a range of lethal and sublethal endpoints were conducted on eight abundant and ecologically relevant marine zooplankton taxa during four cruises in the northern Gulf of Mexico. Survival and sublethal effects were highly species specific, suggesting that generalizations on toxicity of oil and dispersant exposure for zooplankton may be difficult, and vulnerability of major taxa should be assessed separately.

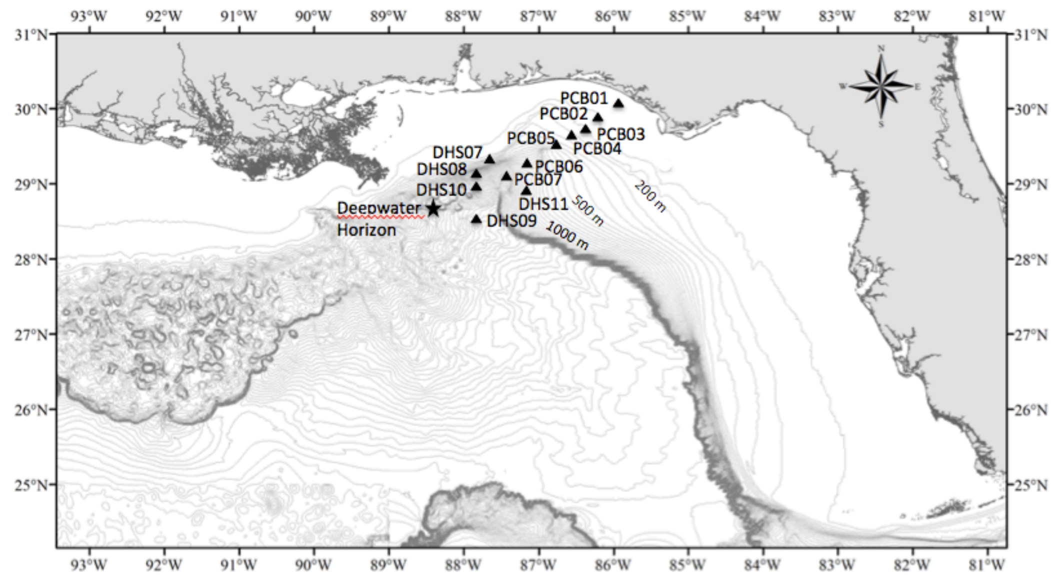

Figure 1. Location of stations in the northern Gulf of Mexico.

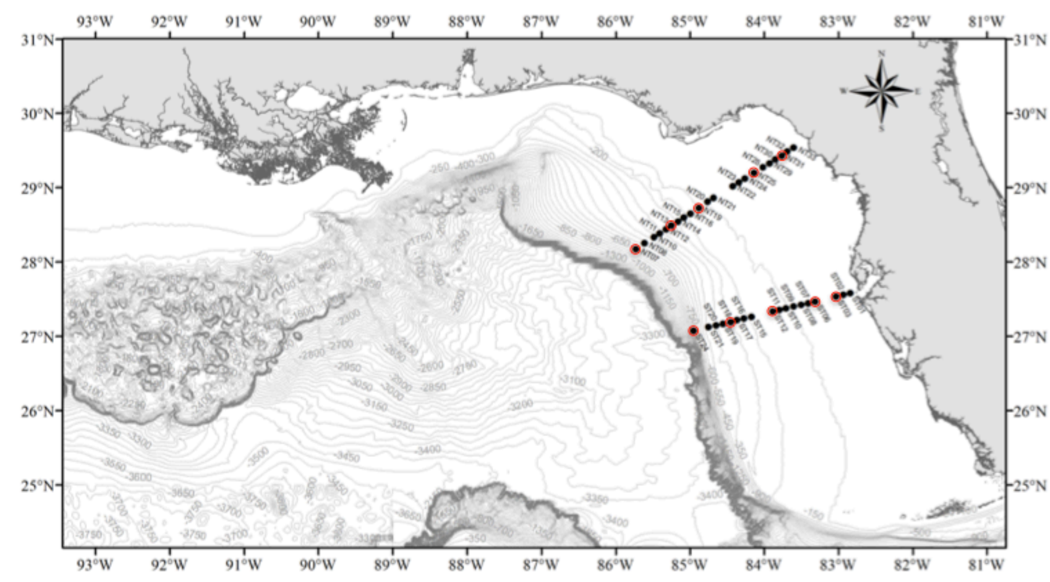

Figure 2. Location of stations on the west Florida shelf. The stations in red are the locations of routine time-series stations.

2) Results and scientific highlights

Narrative (2 pages maximum): This should be a summary of significant results (positive and negative) and conclusions during the conduct of this project. Listing science results and highlights in bulleted form is acceptable. In each case, please explain the impact of the result.

(1) Establish a baseline of the annual abundance and distribution of zooplankton in the northern Gulf of Mexico and west Florida shelf using the towed SIPPER imaging system and net tows (Daly: USF-Marine Science)

Results:

- Environmental conditions varied widely between May 2010 and November 2012. For example, results from a time-series station at DHS09 in the northern Gulf of Mexico (GOM) indicate that surface waters during August 2010 were strongly influenced by Mississippi River waters, resulting in a highly stratified density gradient and maximum concentrations of chlorophyll (2 µg L^{-1}) and marine snow (62,470 particles per m^3). No other cruises showed the same influence of near-surface fresh water. In addition, field observations indicated that phytoplankton photosynthetic capacity decreased during August 2010 at the stations nearest the wellhead and near DeSoto Canyon and phytoplankton species diversity also decreased. In general, transparent exopolymer particles (TEP) production increases when microplankton are stressed and contributes to particle aggregation and flux. Thus, the high marine snow concentrations during August 2010 support the hypothesis that suspended oil droplets adhering to marine snow is likely one mechanism by which oil was transported to the sea floor. Furthermore, this mechanism may have been influenced by the large release of Mississippi River water between May and August 2010.
- During this same time period (August 2010), MODIS satellite observations detected a positive chlorophyll anomaly (> 1 mg m^{-3}) in the NE GOM relative to an eight-year climatology (Hu et al. 2011 GRL), supporting the spatial extent of the in situ chlorophyll data.
- Zooplankton species composition, abundance, and biomass varried seasonally, interannually, and between locations. Eighty-one copepod species and 33 taxa/genera of copepods and other zooplankton taxa were identified from bongo tows. Copepods were the dominant component (55 - 90%) of the zooplankton community, followed by ostracods, chaetognaths, larvaceans, and decapods. Copepods typically ranged in size from about 1 – 6 mm. Total zooplankton densities during September 2011 (607 ind m^{-3}), one year after the oil spill, were about 2x higher than densities during August 2010 (311 ind m^{-3}) in the northern GOM. In general, zooplankton abundance and diversity were highest near-shore and decreased offshore. Biomass distributions, however, were more variable. Maximum zooplankton biomass (21.8 g DW) occurred near shore (Sta. PCB01) during May 2012, in part due to a doliolid bloom. The second highest biomass (12.8 g) during May 2012 was at a deep-water station (PCB11, 1200 m). Zooplankton abundance and biomass also were highest in the northern Gulf and decreased southward along the west Florida shelf. For example, the geomean biomass of all northern GOM cruises (5.68 g) was 2.8x higher than the geomean biomass on the west Florida shelf (2.03 g). In addition, a change in copepod species composition occurred during summer 2011. The historically dominant near-shore copepod, *Centropages velificatus* (maximum abundance 1,284 ind m^3), had very low densities and was replaced by *Temora turbinata* (maximum abundance 643 ind m^3) as the dominant species.
- It is uncertain at this time whether the observed changes in phytoplankton and zooplankton are due to the oil spill or a result of interannual changes in environmental conditions, or a

combination of both. These results highlight the critical need for continued time-series observations of the GOM ecosystem in order to accurately assess the spatial and seasonal and interannual changes in plankton communities in relation to human activities (i.e., oil spills, fishing) and climate change.

(2) Develop new algorithms and image pattern recognition software to adapt the SIPPER for automated oil droplet sensing, as well as software development for improved zooplankton recognition in water with oil present (Goldgof, Kasturi, Hall: USF-Computer Science & Engineering)

Results:

- The proposed method automatically detects particles in the water, classifies them, and provides an interface for visual display. The particles may be plankton, marine snow, oil droplets, fish eggs, and more. Image processing and machine learning techniques are applied to discern suspected unidentified spherical objects (such as oil droplets, fish eggs, etc.) from plankton and other particles present in the water adjacent to an oil spill. The contributions of this work are the following. We built an SVM classifier for detection of suspected oil droplets/fish eggs and trained it on the data obtained during one of the first research cruises to the site of the Deepwater Horizon oil spill. The classification accuracy of the suspected oil droplets/fish eggs was reported and analyzed. The proposed approach reliably finds oil/fish eggs when it is present with minimum involvement of a human expert.
- We also developed a method to exploit the characteristics of the support vector machine learning algorithm to identify potentially mislabeled examples. We were able to effectively correct mislabels. The work relied on looking at the Support Vectors of classes often confused with the one of interest. This is where the mislabeled examples tend to be.

(3) Conduct preliminary laboratory toxicity studies on lethal and sublethal oil toxic effects of untreated and dispersed MC-252 crude oil water-accommodated fractions on dominant and ecologically relevant northeast Gulf of Mexico zooplankton species (Cohen: University of Delaware)

Results:

- Laboratory and shipboard toxicity studies employed Chemical Response to Oil Spills: Ecological Research Forum (CROSERF) protocols to consistently prepare oil and dispersant solutions, as assessed by UV/VIS spectroscopy and GC-FID. To our knowledge this is the first attempt to use CROSERF protocols while at sea, and it was successful.
- Laboratory mortality studies with the marine copepod, *Labidocera aestiva,* showed that based on oil loadings, the water- accommodated fraction (WAF) of MC-252 crude oil alone (48h LC_{50} = 5.0 mg oil/L) was less toxic than Chemically Enhanced Water Accommodated Fraction (CE-WAF) of dispersed oil (3.3 mg oil/L). However, WAF solutions were more toxic than CE-WAF when 48h LC50s were calculated based on total petroleum hydrocarbon (TPH) concentration (37.5 vs. 74.3 $\mu g\ L^{-1}$). This may be due to a combination of additional low-toxicity hydrocarbons from dispersant in CE-WAF, and changes in the hydrocarbon composition, as highly toxic naphthalenes represented a smaller fraction (though still the majority) of PAHs in our CE-WAF solutions. Copepods accumulated TPH in their tissues with increased exposure to TPH in solution. Loadings of Corexit EC9500A alone were the least toxic of the three solutions (48h LC_{50} = 8.5 mg dispersant/L), but similar to the low values reported by the manufacturer for the small estuarine model copepod, *Acartia tonsa*, suggesting that copepods in general may be particularly sensitive to dispersants.
- Laboratory behavior studies found an instantaneous reduction in number and speed of swimming *L. aestiva* for CE-WAF (10 and 50 mg/L) and WAF (50 mg/L), suggesting narcotization. Dispersant alone at the 1:10 ratio used in CE-WAF did not appear to alter swimming behavior.

- Laboratory mortality studies with the ctenophore, *M. leidyi,* showed, among other results, higher sensitivity to dispersants in these gelatinous organisms (24h LC_{50} = 5.2 mg/L) than was observed for smaller *L. aestiva* copepods (24h LC_{50} = 12.9 mg/L). Ctenophore bioluminescent emission and respiration rate were reduced in animals that survived dispersant exposure above the LC_{50}.
- Shipboard mortality, behavioral, and physiological studies were conducted with *Callinectes sapidus* megalopae (decapod), *Temora turbinata* (copepod), *Pontella meadii* (copepod), *Candacia paenelongimana* (copepod), *Lestrigonus* sp. (amphipod), *Euphausia* sp. (euphausiid), *Beroe ovata* (ctenophore), and *Cyclosalpa* sp. (salp); additional taxa (e.g., chaetognaths, doliolids, pteropods) were tested, but high mortality in controls precluded further work with those species. Test concentrations were based on LC_{50}s for *L. aestiva* to provide a relative measure of sensitivity for a range of zooplankton taxa. Species varied considerably in their survival and sublethal effects. For example, *C. paenelongimana* mortality was similar to *L. aestiva*, while commercially important *C. sapidus* (blue crab) megalopae survived much better in 24 h exposures to WAF, CE-WAF, and dispersant, but showed disruption in molting following the dispersant exposures. Oil and dispersant lethal and sublethal effects on marine zooplankton are taxa-specific.

3) Cruises & field expeditions funded by FIO-BP or other sources

Ship or Platform Name	**Class** (if applicable)	**Chief Scientist**	**Objectives**	**Dates**
R/V Bellows*		B. Donahue	Assess ecosystem response to oil	July 10-18 2010
R/V Weatherbird*		D. Hollander	Assess ecosystem response to oil	Aug 7-11 2010
R/V Weatherbird		D. Hollander	Assess ecosystem response to oil	Nov 30-Dec 8 2010
R/V Weatherbird		B. Donahue	Assess ecosystem response to oil	Jan 4-11 2011
R/V Weatherbird		B. Donahue	Assess ecosystem response to oil	Feb 17-27 2011
R/V Weatherbird		S. Murasko	Assess ecosystem response to oil	May 3-9 2011
R/V Weatherbird		C. Kovach	Assess ecosystem response to oil	Jun 25-Jul 1 2011
R/V Weatherbird		R. Larson	Assess ecosystem response to oil	Sep 20-29 2011
R/V Weatherbird		C. Kovach	Assess ecosystem response to oil	Nov 1-8 2011
R/V Weatherbird		L. Wade	Assess ecosystem response to oil	Feb 15-24 2012
R/V Bellows+		L. Wade	Assess ecosystem response to oil	Apr 23-28 2012
R/V Weatherbird+		L. Wade	Assess ecosystem response to oil	May 8-15 2012
R/V Bellows+		L. Wade	Assess ecosystem response to oil	June 29-July 1 2012
R/V Weatherbird+		L. Wade	Assess ecosystem response to oil	Aug 210 2012
R/V Bellows+		L. Wade	Assess ecosystem response to oil	Nov 13-15 2012

Ship time funded by * USF Research Foundation or +GOMRI (C-IMAGE Project)

4) Peer-reviewed publications, if planned (Note: a special section will focus on student and post-doctoral publications)

a. Published, peer-reviewed bibliography (Copies of the papers are requested)

Hu, C., R.H. Weisberg, Y.Liu, L. Zheng, K.L. Daly, D.C. English, J. Zhao, and G.A. Vargo. 2011. Did the northeastern Gulf of Mexico become greener after the Deepwater Horizon oil spill? Geophysical Research Letters 38, L09601, doi:10.1029/2011GL047184.

Fefilatyev, S., K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly. 2011. Detection of Anomalous Particles from the Deepwater Horizon Oil Spill Using the SIPPER3 Underwater Imaging Platform. Proceedings of International Conference on Data Mining: 741-748. Paper awarded the **Data Mining Practice Prize**.

b. Manuscripts submitted or in preparation (Please note target journal, and anticipated date of publication or submission)

- Fefilatyev, S., M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, H. Bunke. 2012. Label-Noise Reduction with Support Vector Machines. International Conference on Pattern Recognition, accepted.
- Fefilatyev, S., R. Ekambaram, M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, "Assessing Impact of Oil Spills in Maritime Environment through Detection of Anomalous Particles from Underwater Imaging Platform", to be submitted to *Ocean Engineering*, 2012.
- Ekambaram, R., S. Fefilatyev ,M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, "Performance Comparison of 1-class and 2-class SVM for Supervised Label Noise Removal Approach", to be submitted to *International Journal of Machine Learning Research*, 2012.
- Cohen, J.H., L.R. McCormick, S.M. Burkhardt. Crude oil and chemical dispersant effects on marine zooplankton. I. Mortality and acute swimming behavior of a coastal marine copepod. (in preparation for *Marine Ecology Progress Series*, submission expected by 11/30/2012).
- Cohen, J.H., L.R. McCormick, R.F. Peiffer. Crude oil and chemical dispersant effects on marine zooplankton II: Lethal and sublethal effects on zooplankton in the Gulf of Mexico. (in preparation for *Marine Ecology Progress Series*, submission expected by 11/30/2012).
- Paul, J.H., D. Hollander, P. Coble, K.L. Daly, S. Murasko, D. English, L. McDaniel, C. Kovach. Toxicity and Mutagenicity of Gulf of Mexico Waters Contaminated by the Deepwater Horizon Oil Spill. Environmental Science & Technology.

5) Presentations and posters, if planned (Please provide copies of each) (Note: a special section will focus on student presentations)

Title	Presenter	Authors	Meeting or Audience	Abstract published (Y/N)	Date
Detection of Anomalous Particles from Deepwater Horizon Oil Spill Using SIPPER3 Underwater Imaging Platform.	L. Hall	Fefilatyev, S., K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly	Eleventh IEEE International Conference on Data Mining, Vancouver, B.C.	Y	12/11
Plankton Dynamics Following the BP Oil Spill	K.L. Daly	Daly, K.L., A. Remsen, S. Murasko, D. Outram, and L. Wade	Ocean Sciences Meeting, Salt Lake City	Y	2/12/12
Lethal and sublethal effects of Corexit 9500A dispersant, MC-252 oil, and dispersed oil mixtures on marine zooplankton	J. Cohen	Cohen, J. L.R. McCormick, S.M. Burkhardt, R.F. Peiffer	Ocean Sciences Meeting, Salt Lake City	Y	2/12/12
Label-Noise Reduction with Support Vector Machines	D. Goldgof	S. Fefilatyev, M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, H. Bunke	International Conference on Pattern Recognition	Y	11/11/12
Plankton Dynamics Following the BP Oil Spill	K.L. Daly	Daly, K.L., L. Schwierzke-Wade, K. Dreger, S. Murasko, D. Outram, A. Remsen	Gulf of Mexico Oil Spill and Ecosystem Science Conference	Y	1/21-23/13
Oil spills and overfishing led to increments of harmful algal blooms on the west Florida shelf, with public consequences: An isomorph?	J. Walsh	Walsh, J.J., J.M. Lenes, R.H. Weisberg, C. Hu, K.L. Daly	Gulf of Mexico Oil Spill and Ecosystem Science Conference	Y	1/21-23/13
The lethal and sublethal effects of chemical dispersant on the ctenophore *Mnemiopsis leidyi*	R. Peiffer	R. Peiffer, J.H. Cohen	Gulf of Mexico Oil Spill and Ecosystem Science Conference	Y	1/21-23/13

6) Other products or deliverables
Please list (for example: maps, models, tools) and indicate where they can be located/obtained.
NA

7) Data
Please provide a spreadsheet indicating the metadata and ancillary information on the location and status of the archived samples. Also, indicate if there are any issues with respect to data archiving schedule and plan. If you have a lot of metadata, representative samples will suffice. This will all be incorporated into the GoMRI database at some point in the future.

Dr. K. Daly: As part of this final report, we are submitting analyzed CTD, chlorophyll, and SIPPER data for ten cruises listed below. Zooplankton bongo data are submitted for all cruises through November 2011. All data will be submitted to Dave Reed (GRI data management) and to USF's C-IMAGE Center data management site and, in turn, to the Harte Research Institute. The remaining bongo data for the FIO-BP funded cruise in Feb. 2012 will be reported as part of the C-IMAGE (GOMRI) data submission.

Dr. J. Cohen: See Appendix 1 spreadsheet for experimental data archive.

Daly: Metadata for data submission

Cruise	Dates	Location	Data sets
R/V Bellows*	July 10-18 2010	West Florida shelf	CTD. SIPPER. Bongo net
R/V Weatherbird*	Aug 7-11 2010	Northern Gulf of Mexico	CTD. SIPPER. Bongo net
R/V Weatherbird	Nov 30-Dec 8 2010	Northern Gulf of Mexico	CTD. SIPPER. Bongo net
R/V Weatherbird	Jan 4-11 2011	West Florida shelf	CTD. SIPPER. Bongo net
R/V Weatherbird	Feb 17-27 2011	Northern Gulf of Mexico	CTD. SIPPER. Bongo net
R/V Weatherbird	May 3-9 2011	Northern Gulf of Mexico	CTD. SIPPER. Bongo net
R/V Weatherbird	Jun 25-Jul 1 2011	West Florida shelf	CTD. SIPPER. Bongo net
R/V Weatherbird	Sep 20-29 2011	Northern Gulf of Mexico	CTD. SIPPER. Bongo net
R/V Weatherbird	Nov 1-8 2011	West Florida shelf	CTD. SIPPER. Bongo net
R/V Weatherbird	Feb 15-24 2012	Northern Gulf of Mexico	CTD. SIPPER

PARTICIPANTS AND COLLABORATORS

8) Project participants
Please list the participants of your project, their role(s) and contact information. No personal information will be released.* ***Note: Student/educational information will be collected elsewhere in this report****.*
** We understand one person may fulfill more than one role; please list all applicable roles using the following standardized titles: Principal Investigator, Co-Principal Investigator, Scientific Participant, Technician, Lab Assistant, Administrative Support*

First Name	Last Name	Role in Project	Institution	Email
Kendra	Daly	Lead PI	USF	kdaly@marine.usf.edu
Dmitry	Goldgof	Co-PI	USF	goldgof@gmail.com
Larry	Hall	Co-PI	USF	hall@cse.usf.edu
Rangachar	Kasturi	Co-PI	USF	r1k@cse.usf.edu
Jon	Cohen	Co-PI	Eckerd/ U Delaware	jhcohen@udel.edu
Andrew	Remsen	Scientific participant	USF	aremsen@marine.usf.edu
Karen	Dreger	Technician	USF	kdreger@mail.usf.edu
Sue	Murasko	Technician	USF/FWRI	Sue.Murasko@MYFWC.COM
Dawn	Outram	Technician	USF	doutram@gso.uri.edu
Leslie	Schwierzke-Wade	Technician	USF	lswade@mail.usf.edu
Stephanie	Burkhardt	Technician	Eckerd	burkhasm@eckerd.edu
Lillian	McCormick	Technician	U Delaware	mccormlr@udel.Edu

MENTORING AND TRAINING

9) Student and post-doctoral participants

Please list the student participants of your project, their educational role, and other information. No personal information will be released.

First Name	Last Name	Post-doc / PhD / MS / BS	Thesis or research topic	Institution	Supervisor	Expected Completion year
Tim	Lee	PhD	Zooplankton dynamics	USF	Daly	2016
Sergiy	Fefilatyev	PhD	Algorithms for visual maritime surveillance with rapidly moving camera	USF	Goldgof/Hall	2012
Rajmadhan	Ekambaram	PhD	Label Noise Cleansing	University of South Florida	Rangachar Kasturi	
Matthew	Shreve	PhD	Facial Motion Analysis for Expression and Human Identification	USF	Goldgof	2013
Ryan	Peiffer	MS	Physiology and behavior of marine zooplankton in response to oil/dispersants	U Delaware	Cohen	2014

10) Student and post-doctoral publications, if planned

a. Published, peer-reviewed bibliography (Copies of the papers are requested)
b. Manuscripts submitted or in preparation (Please note target journal, and anticipated date of submission or publication)

Publications with S. Fefilatyev as lead author are listed in Section 4.

11) Student and post-doctoral presentations and posters, if planned (Please provide copies of each)

Presentation by S. Fefilatyev as lead author (presented by his supervisor, L. Hall) is listed in Section 5.

Title	**Presenter**	**Authors**	**Meeting or Audience**	**Abstract published (Y/N)**	**Date**
Lethal and sublethal effects of chemical dispersant on the coastal ctenophore *Mnemiopsis leidyi*	R. Peiffer	Peiffer, R.F. and J.H. Cohen	Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA	Y	1/22/13

12) Images

Please attach high-resolution image and provide details including a description of the image, location, credit, date, etc. Of note: Image may be used in GoMRI promotions, make sure you have rights to use the image. Note: GoMRI will establish a Flicker site to share these images through the GoMRI website and with media and the public.

13) Continuing Research

If you are continuing this research under another grant, please include granting authority and title of award and a very brief synopsis (2-3 sentences).

Dr. K. Daly: Our Gulf of Mexico oil response research is continuing as part of USF's Center of Integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE) project funded by the Gulf of Mexico Research Initiative. The title of the award is C-IMAGE: Environmental Impacts on Plankton. We are continuing our cruises to the northern Gulf of Mexico and the west Florida shelf to investigate the impact of environmental conditions on the seasonal abundance and distribution of phytoplankton and zooplankton.

Dr. J. Cohen: This work generated GoMRI RFP 2 and NOAA/CRRC Dispersant Initiative proposals in 2012, but these were not funded. We do not otherwise anticipate continuing this research beyond R. Peiffer's MS thesis.

APPENDIX 1

DR. J. COHEN: Spreadsheet for Experimental Data Archive.

Species	Cruise	Date	Station	Experiment	Treatment	Bottle #	#Alive 24h	#Dead 24h	#Alive 48h	Total Dead 48h
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	22.6 mg/L Corexit	11	0	1	--	--
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	22.6 mg/L Corexit	15	0	1	--	--
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	22.6 mg/L Corexit	10	0	1	--	--
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	FSW	13	1	0	--	--
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	FSW	23	1	0	--	--
Beroe ovata	WBII 09-11	9/23/11	NE Line 01	Sept.11.2	FSW	14	0	1	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	30	1	0	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	33	0	1	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	42	0	1	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	14	0	1	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	27	1	0	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	21	1	0	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	4	0	1	--	--
Beroe ovata	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	20	1	0	--	--
Beroe ovata	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	18	0	1	--	--
Beroe ovata	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	47	1	0	--	--
Beroe ovata	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	39	1	0	--	--
Beroe ovata	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	24	1	0	--	--
Beroe ovata	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	12	1	0	--	--
Beroe ovata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	8	1	0	--	--
Beroe ovata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	17	1	0	--	--
Beroe ovata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	2	1	0	--	--
Beroe ovata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	23	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	36	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	39	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	24	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	22.6 mg/L Corexit	12	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	47	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	48	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	37	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/24/11	DSH 08	Sept.11.3	FSW	18	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	38	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	19	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	25	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	26	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	28	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	13	0	1	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	10	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	2	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	5	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	3	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	17	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	22	1	0	--	--

Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	9	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	7	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	19	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	22	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	10	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	26	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	13	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	46	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	35	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	6	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	29	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	42	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	27	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	10	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	38	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	22	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	20	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	41	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	31	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	11	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	45	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	34	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	30	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	44	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	48	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	15	1	0	--	--
Calinectes sapidus megalopae	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	40	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/11/12	DSH 08	May.12.3	22.6 mg/L Corexit	90	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/11/12	DSH 08	May.12.3	11.3 mg/L Corexit	87	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/11/12	DSH 08	May.12.3	11.3 mg/L Corexit	18	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/11/12	DSH 08	May.12.3	FSW	19	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/11/12	DSH 08	May.12.3	FSW	21	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	63	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	78	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	24	1	0	--	--
Calinectes sapidus megalopae	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	93	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-21	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-45	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-19	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-29	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-14	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-30	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-44	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-6	1	0	--	--

Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-42	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	11.3 mg/L Corexit	40-54	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-72	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-82	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-92	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-88	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-77	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-85	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-84	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-75	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-80	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	22.6 mg/L Corexit	40-87	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-122	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-123	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-124	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-125	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-126	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-127	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-128	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-129	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-130	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8 mg/L CEWAF	40-131	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-79	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-95	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-76	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-93	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-81	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-86	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-78	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-71	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-90	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	8.8 mg/L WAF	40-74	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-94	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-33	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-7	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-34	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-32	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-46	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-53	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-13	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-10	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-58	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-134	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-135	1	0	--	--

Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-136	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-137	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-138	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-139	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-140	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-141	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-142	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/8/12	DSH 09	Aug.12.4	FSW	40-143	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-31	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-32	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-33	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-34	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-35	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-36	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-37	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-38	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-39	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-40	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-61	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-62	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-63	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-64	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-65	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-66	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-67	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-68	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-69	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	11.3 mg/L Corexit	40-70	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-1	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-2	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-3	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-4	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-5	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-6	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-7	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-8	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-9	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-10	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-91	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-92	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-93	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-94	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-95	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-96	1	0	--	--

Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-97	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-98	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-99	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	22.6 mg/L Corexit	40-100	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-41	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-42	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-43	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-44	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-45	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-46	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-47	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-48	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-49	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-101	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-102	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-103	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-104	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-105	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-106	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-107	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-108	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-109	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8 mg/L CEWAF	40-110	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-11	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-12	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-13	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-14	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-15	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-16	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-17	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-18	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-19	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-20	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-71	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-72	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-73	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-74	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-75	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-76	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-77	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-78	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-79	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	8.8 mg/L WAF	40-80	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-21	1	0	--	--

Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-22	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-23	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-24	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-25	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-26	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-27	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-28	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-29	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-30	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-51	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-52	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-53	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-54	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-55	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-56	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-57	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-58	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-59	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-60	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-81	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-82	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-83	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-84	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-85	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-86	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-87	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-88	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-89	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-90	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-111	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-112	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-113	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-114	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-115	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-116	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-117	0	1	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-118	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-119	1	0	--	--
Calinectes sapidus megalopae	WBII 08-12	8/9/12	DSH 10	Aug.12.5	FSW	40-120	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	64	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	66	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	68	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	69	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	96	1	0	--	--

Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	65	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	11.3 mg/L Corexit	67	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	75	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	70	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	71	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	72	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	73	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	74	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	22.6 mg/L Corexit	97	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	76	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	77	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	78	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	79	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	80	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	81	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	34.9 mg/L Corexit	98	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	82	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	83	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	84	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	87	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	95	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	85	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8 mg/L CEWAF	86	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	89	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	90	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	93	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	88	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	91	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	92	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	8.8 mg/L WAF	94	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	58	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	61	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	62	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	99	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	63	1	0	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	59	0	1	--	--
Candancia paenelongimana	WBII 11-11	11/4/11	ST 24	Nov.11.2	FSW	60	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	47	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	89	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	38	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	10	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	49	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	57	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	62	0	1	--	--

Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	54	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8 mg/L CEWAF	79	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	20	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	19	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	21	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	65	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	87	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	22	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	41	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	18	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	8.8 mg/L WAF	9	0	1	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	76	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	97	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	66	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	86	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	71	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	24	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	61	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	37	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	95	1	0	--	--
Candancia paenelongimana	WBII 05-12	5/14/12	PCB 06	May.12.6	FSW	12	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	11.3 mg/L Corexit	40-118	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	11.3 mg/L Corexit	40-65	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	11.3 mg/L Corexit	40-52	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	22.6 mg/L Corexit	40-68	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	22.6 mg/L Corexit	40-66	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	22.6 mg/L Corexit	40-3	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8 mg/L CEWAF	40-4	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8 mg/L CEWAF	40-62	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8 mg/L CEWAF	40-63	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8.8 mg/L WAF	40-113	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8.8 mg/L WAF	40-39	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	8.8 mg/L WAF	40-59	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	FSW	40-2	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	FSW	40-61	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/7/12	PCB 11	Aug.12.1	FSW	40-35	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	11.3 mg/L Corexit	10	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	11.3 mg/L Corexit	73	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	11.3 mg/L Corexit	85	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	11.3 mg/L Corexit	78	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	22.6 mg/L Corexit	66	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	22.6 mg/L Corexit	72	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	22.6 mg/L Corexit	26	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8 mg/L CEWAF	19	1	0	--	--

Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8 mg/L CEWAF	12	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8 mg/L CEWAF	95	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8.8 mg/L WAF	37	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8.8 mg/L WAF	93	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	8.8 mg/L WAF	86	0	1	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	FSW	71	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	FSW	97	1	0	--	--
Candancia paenelongimana	WBII 08-12	8/8/12	DHW Wellhead	Aug.12.2	FSW	96	1	0	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	36	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	21	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	4	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	37	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	11.3 mg/L Corexit	48	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	25	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	7	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	28	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	38	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	3	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	FSW	42	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	FSW	14	1	0	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	FSW	30	1	0	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	FSW	27	1	0	--	--
Euphasia sp.	WBII 09-11	9/26/11	DSH 07	Sept.11.5	FSW	20	1	0	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.8	8.8 mg/L WAF	37	0	1	--	--
Euphasia sp.	WBII 09-11	9/26/11	PCB 05	Sept.11.8	8.8 mg/L WAF	12	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	47	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	28	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	19	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	25	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	13	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	18	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	22.6 mg/L Corexit	36	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	51	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	52	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	53	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	54	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	55	1	0	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	56	0	1	--	--
Lestrigonus sp.	WBII 11-11	11/3/11	ST 18	Nov.11.1	FSW	57	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	11.3 mg/L Corexit	96	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	11.3 mg/L Corexit	68	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	11.3 mg/L Corexit	93	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	11.3 mg/L Corexit	94	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	11.3 mg/L Corexit	91	1	0	--	--

Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	22.6 mg/L Corexit	67	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	22.6 mg/L Corexit	65	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	22.6 mg/L Corexit	92	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	22.6 mg/L Corexit	89	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	22.6 mg/L Corexit	90	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8 mg/L CEWAF	64	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8 mg/L CEWAF	71	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8 mg/L CEWAF	70	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8 mg/L CEWAF	61	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8 mg/L CEWAF	59	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8.8 mg/L WAF	60	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8.8 mg/L WAF	62	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8.8 mg/L WAF	51	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8.8 mg/L WAF	54	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	8.8 mg/L WAF	58	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	81	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	83	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	99	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	97	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	66	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	75	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	76	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	74	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	FSW	56	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	FSW	49	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	FSW	9	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DHW Wellhead	May.12.2	FSW	38	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/10/12	DSH 09	May.12.1	FSW	82	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	13	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	72	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	73	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	61	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	71	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	59	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	25	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8 mg/L CEWAF	12	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	3	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	28	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	26	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	5	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	37	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	85	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	8.8 mg/L WAF	95	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	FSW	96	1	0	--	--

Lestrigonus sp.	WBII 05-12	5/12/12	PCB 03	May.12.3	FSW	76	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	2	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	6	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	23	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	33	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	40	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	4	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	45	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	48	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	11.3 mg/L Corexit	35	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	11.3 mg/L Corexit	B	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	11.3 mg/L Corexit	C	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	11.3 mg/L Corexit	D	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	11.3 mg/L Corexit	E	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	11.3 mg/L Corexit	F	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	15	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	14	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	43	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	46	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	17	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	31	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	44	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	34	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	22.6 mg/L Corexit	30	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	22.6 mg/L Corexit	K	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	22.6 mg/L Corexit	L	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	22.6 mg/L Corexit	I	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	22.6 mg/L Corexit	J	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	22.6 mg/L Corexit	M	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	FSW	51	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.4	FSW	58	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	FSW	P	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	FSW	Q	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	FSW	R	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	FSW	T	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/13/12	PCB 02	May.12.5	FSW	S	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8 mg/L CEWAF	BB	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8 mg/L CEWAF	DD	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8 mg/L CEWAF	EE	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8 mg/L CEWAF	FF	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8 mg/L CEWAF	CC	0	1	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8.8 mg/L WAF	II	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8.8 mg/L WAF	JJ	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8.8 mg/L WAF	KK	1	0	--	--

Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8.8 mg/L WAF	LL	1	0	--	--
Lestrigonus sp.	WBII 05-12	5/14/12	PCB 05	May.12.7	8.8 mg/L WAF	MM	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-39	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-40	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-41	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-42	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-43	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-44	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-45	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-46	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-47	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	11.3 mg/L Corexit	40-48	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-17	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-18	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-19	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-20	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-21	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-22	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-23	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-24	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-25	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	22.6 mg/L Corexit	40-26	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-28	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-29	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-30	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-31	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-32	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-33	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-34	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-35	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-36	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8.8 mg/L WAF	40-37	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-50	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-51	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-52	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-53	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-54	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-55	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-56	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-57	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-58	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	8 mg/L CEWAF	40-59	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-6	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-7	1	0	--	--

Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-8	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-9	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-10	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-11	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-12	0	1	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-13	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-14	1	0	--	--
Pontella meadii	WBII 08-12	8/5/12	PCB 02	Aug.12.3	FSW	40-15	1	0	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	22.6 mg/L Corexit	27	0	7	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	22.6 mg/L Corexit	33	2	6	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	22.6 mg/L Corexit	16	2	5	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	22.6 mg/L Corexit	34	3	6	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	FSW	4	7	0	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	FSW	43	7	1	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	FSW	21	8	2	--	--
Temora turbinata	WBII 09-11	9/23/11	DHW Wellhead	Sept.11.1	FSW	45	6	2	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	23	0	10	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	31	1	9	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	46	0	9	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	29	2	7	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	11.3 mg/L Corexit	35	1	8	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	1	5	5	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	40	6	2	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	6	8	1	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	8	6	2	--	--
Temora turbinata	WBII 09-11	9/25/11	PCB 11	Sept.11.4	FSW	41	8	3	--	--
Temora turbinata	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	5	7	0	--	--
Temora turbinata	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	41	6	0	--	--
Temora turbinata	WBII 09-11	9/26/11	PCB 05	Sept.11.6	8.8 mg/L WAF	9	2	3	--	--
Temora turbinata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.8 mg/L WAF	1	5	5	--	--
Temora turbinata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	32	1	7	--	--
Temora turbinata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	33	4	5	--	--
Temora turbinata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	16	3	5	--	--
Temora turbinata	WBII 09-11	9/27/11	PCB 04	Sept.11.7	8.0 mg/L CE-WAF	43	7	4	--	--
Temora turbinata	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	3	7	3	--	--
Temora turbinata	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	7	7	1	--	--
Temora turbinata	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	21	11	2	--	--
Temora turbinata	WBII 09-11	9/27/11	JL 01	Sept.11.8	8.8 mg/L WAF	24	7	1	--	--
Temora turbinata	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	4	7	2	--	--
Temora turbinata	WBII 09-11	9/28/11	JL 01	Sept.11.9	8.0 mg/L CE-WAF	14	7	4	--	--
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	23	5	0	3	2
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	25	5	0	5	0
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	6	5	0	4	1
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	22	4	1	4	1

Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	1	4	1	4	1
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	40	5	0	4	1
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	17	5	0	4	1
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	1 mg/L CEWAF	5	5	0	3	2
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	38	4	1	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	9	2	4	1	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	37	1	4	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	24	2	3	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	46	2	4	0	6
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	3	3	2	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	18	3	2	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	10 mg/L CEWAF	19	2	3	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	35	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	28	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	26	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	13	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	29	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	41	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	10	0	5	0	5
Labidocera aestiva	Eck Col	8/1/11	Boca Ciega Bay	6	50 mg/L CEWAF	8	0	5	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	1	5	1	3	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	22	5	0	4	1
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	28	6	0	0	6
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	13	4	0	0	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	34	5	1	5	1
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	16	5	0	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	3	5	0	1	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	3 mg/L Corexit	30	3	2	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	48	4	1	3	2
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	24	4	2	1	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	6	5	0	1	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	40	3	2	2	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	20	3	2	1	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	26	5	0	5	0
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	18	6	0	3	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	10 mg/L Corexit	19	5	0	5	0
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	8	1	4	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	11	3	2	2	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	31	2	3	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	29	3	2	2	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	14	2	3	2	3
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	9	4	1	0	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	35	4	1	1	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	20 mg/L Corexit	33	4	0	1	3

Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	25	1	4	1	4
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	2	1	5	0	6
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	23	2	3	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	17	1	4	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	10	0	5	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	38	1	4	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	37	0	5	0	5
Labidocera aestiva	Eck Col	7/1/11	Boca Ciega Bay	1	30 mg/L Corexit	36	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	10	5	0	4	1
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	29	5	0	3	2
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	48	5	0	5	0
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	14	5	0	2	3
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	11	5	0	2	3
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	17	5	0	2	3
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	6	4	1	4	1
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	5 mg/L Corexit	19	5	0	4	1
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	37	2	3	1	4
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	36	4	1	1	4
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	38	2	3	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	8	4	1	4	1
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	34	3	2	2	3
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	22	3	2	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	23	5	0	4	1
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	10 mg/L Corexit	18	3	2	1	4
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	28	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	30	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	9	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	3	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	1	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	2	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	40	0	5	0	5
Labidocera aestiva	Eck Col	7/5/11	Boca Ciega Bay	2	35 mg/L Corexit	25	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	20	5	0	5	0
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	39	5	1	4	2
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	26	5	0	5	0
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	24	4	1	3	2
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	5	5	0	5	0
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	35	6	0	5	1
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	31	3	0	2	1
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	FSW	13	5	0	4	1
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	1	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	2	1	4	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	3	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	30	0	5	0	5

Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	28	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	25	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	9	0	5	0	5
Labidocera aestiva	Eck Col	7/18/11	Boca Ciega Bay	3	500 mg/L WAF	40	0	6	0	6
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	7	6	0	6	0
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	38	6	0	6	0
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	9	5	0	1	4
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	28	5	0	4	1
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	1	3	2	2	3
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	47	5	0	4	1
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	40	5	0	5	0
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	FSW	48	5	0	5	0
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	10	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	22	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	6	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	36	0	6	0	6
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	29	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	8	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	17	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	125 mg/L WAF	37	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	3	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	19	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	18	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	25	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	46	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	23	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	41	0	5	0	5
Labidocera aestiva	Eck Col	7/20/11	Boca Ciega Bay	4	250 mg/L WAF	12	0	5	0	5
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	7	6	0	6	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	38	6	0	6	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	9	5	0	1	4
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	28	5	0	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	1	3	2	2	3
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	47	5	0	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	40	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	FSW	48	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	22	6	0	6	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	17	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	6	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	18	5	0	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	41	4	1	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	23	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	8	5	0	5	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	0.1 mg/L WAF	10	5	0	4	1

Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	25	4	0	4	0
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	38	4	1	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	9	5	0	1	4
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	12	4	1	4	1
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	1	3	2	3	2
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	40	5	0	3	2
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	48	5	0	2	3
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	1 mg/L WAF	47	4	0	1	3
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	31	0	5	0	5
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	24	1	4	0	5
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	26	2	3	1	4
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	13	1	4	0	5
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	35	2	3	2	3
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	5	1	4	1	4
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	2	0	5	0	5
Labidocera aestiva	Eck Col	7/25/11	Boca Ciega Bay	5	50 mg/L WAF	39	0	5	0	5