

APPENDIX F

BIGHT'13 FIELD SAMPLING

DATA SHEETS

STATION OCCUPATION

BIGHT'13

Agency Code

Weather

Clear Overcast Partly cloudy Drizzle Rain Thunderstorm Fog

Sea State

Calm Choppy Rough

Salinity (ppt)

At estuary Sites only

Station ID Date Arrival Time

(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) Direction (4)

Swell

Period (s) Height (ft) Direction (4)

Nav Type

DGPS GPS

Station Comments

Equipment Type

Van Veen Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

#	Time (hh:mm)	Latitude (DD°MM.mmmm)	Longitude (DD°MM.mmmm)	Depth (m)	Distance to target (m)	Grab Fail Code (6)	Penetration (cm)	Composition (1)	Odor (2)	Color (3)	Shell Hash (Y/N)	Infauna	Sed Chem	Grain Size	Sed Tox	Debris (Y/N)
Grab Event Comments:																
Grab Event Comments:																
Grab Event Comments:																
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Grab Event Comments:																

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)

3 Sediment Color: Brown, Gray, Black, Olive green, Red

4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm

5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

STATION OCCUPATION

BIGHT'13

Agency Code

Weather

Clear

Rain

Overcast

Thunderstorm

Partly cloudy

Fog

Drizzle

Sea State

Calm

Choppy

Rough

Nav Type

DGPS

GPS

Station ID

Date

Arrival Time

(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts)

Direction (4)

Swell

Period (s)

Height (ft)

Direction (4)

Station Comments

TRAWL EVENTS

Trawl Number		Time (hh:mm)	Latitude (DD°MM.mmmm)	Longitude (DD°MM.mmmm)	Depth (m)	Wire Out	Distance to target (m)	Trawl Fail Code (3)	P/T Sensor Data (Y/N)	Community Structure (Y/N)	Tissue Chemistry (Y/N)
	Net Over										
	Start Trawl										
	End Trawl										
	Net on Deck										
	Net Over										
	Start Trawl										
	End Trawl										
	Net on Deck										
	Net Over										
	Start Trawl										
	End Trawl										
	Net on Deck										

1 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm

2 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

3 Trawl Fail codes: None, Outside Radius Limit, Outside Target Depth, Fouled Net (comment req.), Open cod end (knot untied), Trawl hit unknown obstruction, Doors - No contact with bottom, Torn Net, Unusually low catch, Improper Deck Time, Improper Bottom Time, Inadequate trawl track, Other - Trawl Failure (comment req.)

BIGHT'13 DEMERSAL FISH IDENTIFICATION FORM

Station: _____

Page _____ of _____

Date: _____

Completed by: _____

Data from Short/Long Trawl @ >300 m Depth Yes ☐ No ☐

Species	N	Std Length Size Class (cm) <i>Use for up to 10 individuals. Use Size Class sheet for more abundant spp.</i>	FID or Voucher #	Weight (kg)		
				Gross	Tare	Net
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

Anomaly Codes: (record as superscript to tally mark):

A = ambicoloration **B** = albinism, **D** = skeletal deformity, **E** = copepod eye-parasite (i.e., Phrioxcephalus), **F** = fin erosion, **H** = Leeches, **L** = lesion (*describe in Comments*), **M** = Monogeneans, **O** = other anomaly (*describe in Comments*), **P** = other external parasite (*describe in Comments*), **T** = tumor, multiple occurrences on individual put “-” and #, **FID** = specimen(s) collected for further identification, **#V** = Number of specimens collected as species vouchers

Comments:

QA Pass/Fail: (circle) Yes No NA (not available)

BIGHT'13 DEMERSAL FISH SIZE CLASS FORM

Station: _____

Page _____ of _____

Date: _____

Completed by: _____

Gross weight (kg) _____

Tare Weight (kg) _____

Net weight (kg) _____

Size class	N	Species:	Anomalies
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Anomaly Codes (record as superscript to length measurement): **A** = ambicoloration, **B** = albinism, **D** = skeletal deformity, **E** = copepod eye-parasite (i.e., *Phrileocephalus*), **F** = fin erosion, **H** = Leeches, **L** = lesion (describe in Comments), **M** = Monogeneans, **O** = other anomaly (describe in Comments), **P** = other external parasite (describe in Comments), **T** = tumor, multiple occurrences on individual put “-” and #

Total Abundance	
-----------------	--

Comments: _____

QA Pass/Fail: (circle) Yes No NA (not available)

ALIUQUOT DATA

Species:	N	Gross (kg)	Tare (kg)	Net (kg)
<i>Record Catch gross weights here:</i>	<i>Show calculations here</i>			
	Catch gross wt. – Catch tare wt. = catch Net wt.			
	_____ - _____ = _____			
	(Catch Net wt. /Aliquot net wt.) x # in Aliquot = Abundance			
	_____ x _____ = _____			

All weights are to be recorded in kg.

Comments:This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

BIGHT'13 EPIBENTHIC INVERTEBRATE FORM

Station: _____

Page _____ of _____

Date: _____

Completed by: _____

Data from Short/Long Trawl @ >300 m Depth Yes ☐ No ☐

Species	N	Comments (or Anomalies)	FID or Voucher #	Weight (kg)		
				Gross	Tare	Net
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

Anomaly Codes: **B** = burnspot, **P** = External Parasite, **O** = other anomaly (*describe in Comments*), **W** = wasting disease, multiple occurrences on individual put “-” and #, **FID** = specimen(s) collected for further identification, **#V** = Number of specimens collected as species vouchers

Comments: _____

QA Pass/Fail: (circle) **Yes** **No** **NA** (not available)

ALIQOT DATA

Species:	N	Gross (kg)	Tare (kg)	Net (kg)
Record Catch gross weights here:	Show calculations here			
	Catch gross wt. – Catch tare wt. = catch Net wt.			
	_____ - _____ = _____			
	(Catch Net wt. /Aliquot net wt.) x # in Aliquot = Abundance			
	_____ x _____ = _____			

All weights are to be recorded in kg.

ALIQOT DATA

Species:	N	Gross (kg)	Tare (kg)	Net (kg)
Record Catch gross weights here:	Show calculations here			
	Catch gross wt. – Catch tare wt. = catch Net wt.			
	_____ - _____ = _____			
	(Catch Net wt. /Aliquot net wt.) x # in Aliquot = Abundance			
	_____ x _____ = _____			

All weights are to be recorded in kg.

ALIQOT DATA

Species:	N	Gross (kg)	Tare (kg)	Net (kg)
Record Catch gross weights here:	Show calculations here			
	Catch gross wt. – Catch tare wt. = catch Net wt.			
	_____ - _____ = _____			
	(Catch Net wt. /Aliquot net wt.) x # in Aliquot = Abundance			
	_____ x _____ = _____			

All weights are to be recorded in kg.

BIGHT'13 TRAWL DEBRIS FORM

Agency: _____

Page _____ of _____

Station: _____ Trawl #: _____ Date: _____



CHECK HERE IF NO DEBRIS PRESENT IN SAMPLE

Anthropogenic Debris - include Brand Names in Comments if known	Plastic	Count	Comment	Misc. Items/Pieces	Count	Comment		
	Bag			Boat/Ship/Engine part				
	Bandaïd			Clothing				
	Balloon (mylar/latex)/Ribbon			Concrete/Asphalt				
	Bottle			Fiberglass				
	Buoy			Food				
	Cap/Lid			Leather				
	Cigarette box/wrapper			Lumber				
	Cup			Paper				
	Filmstrip (movie)			Rag/Cloth				
	Fishing Line/Net			Rubber				
	Food Bag / Wrapper			Shoe				
	Polypropylene Rope			Tape				
	Straw			Tire				
	Toy			Other Misc. (comment req.)				
	Utensil							
	Plastic Piece (unid.)							
	Other Plastic (comment req.)							
	Glass	Count	Comment	Metal	Count	Comment		
	Beer Bottle			Drink Can				
	Glass Bottle/Jar -other			Can - other				
	Glass Piece (unid.)			Can Pull-tab				
	Other Glass (comment req.)			Fishing Gear				
				Wire				
				Metal Piece (unid.)				
				Other Metal (comment req.)				
Natural Debris	Marine Origin	Count	Est.*	Comment	Terrestrial Vegetation	Count	Est.*	Comment
	Foliose Algae - not kelp				Leaves/Seed Pod			
	Gorgonian Sea Fan (dead)				Stick/Branch/Driftwood			
	Kelp Holdfast				Other Terrest. (comment req.)			
	Kelp Stipe/Blade				*For Natural Debris only , if an exact count cannot be made, leave the "Count" column blank and estimate the amount (L, M or H) in the "Est." column: Low: L = 2-10 Moderate: M = 11-100 High: H = > 100			
	Rock							
	Seagrass							
	Other Marine (comment req.)							

Completed by: _____

BIGHT'13 SAMPLE TRACKING FORM

AGENCY: _____

Page _____ of _____

DATE: _____

COMPLETED BY:

[illegible]

Include all stations that have been abandoned during the sampling day(s) and describe the reason for each instance of abandonment.

BIGHT'13 CHAIN OF CUSTODY FORM

Agency: _____

Contact name: _____

Date: _____

Contact #: _____

Sampled By: _____

Station	Sample type	Container type	# of Containers

Relinquished by: _____

Agency: _____

Signature: _____

Date: _____

Comments: _____

Accepted by: _____

Agency: _____

Signature: _____

Date: _____

Relinquished by: _____

Agency: _____

Signature: _____

Date: _____

Comments: _____

Accepted by: _____

Agency: _____

Signature: _____

Date: _____

<p>Example: LACSD -agency name can be preprinted</p> <p>Station Name 4003</p> <p>Gear/Split vanveen 3 of 3</p> <p>Date of Collection: 21 Aug 2013</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>	<p>Agency Code: _____</p> <p>Station Name _____</p> <p>Sample Type/Split No. _____</p> <p>Date of Collection: _____</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>	<p>Agency Code: _____</p> <p>Station Name _____</p> <p>Sample Type/Split No. _____</p> <p>Date of Collection: _____</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>
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<p>Agency Code: _____</p> <p>Station Name _____</p> <p>Sample Type/Split No. _____</p> <p>Date of Collection: _____</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>	<p>Agency Code: _____</p> <p>Station Name _____</p> <p>Sample Type/Split No. _____</p> <p>Date of Collection: _____</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>	<p>Agency Code: _____</p> <p>Station Name _____</p> <p>Sample Type/Split No. _____</p> <p>Date of Collection: _____</p> <p>Circle One: <u>95% ethanol</u> OR <u>10% formalin</u></p>
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