

Merkel & Associates, Inc.

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October 21, 2014

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: September 2014 Monthly Monitoring Report #1 for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during the first month of work, between September 15 and September 30, 2014. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

M&A Senior Biologist, Holly Henderson, conducted initial contractor training on September 16, 2014. The briefing outlined the goals and requirements of the biological monitoring program and included specific monitoring and reporting elements for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl. The briefing also detailed contractor requirements and actions to avoid impacts to sensitive biological resources, identified protocols for ongoing contractor and client education, outlined protocols for daily biological monitoring and reporting, identified a project chain of command, and outlined requirements in the event that an impact to sensitive resources occurs during construction. The material for this briefing is provided in Appendix A.

A subsequent contractor training session was conducted by Anchor QEA Engineer and Monitor, Kyle King, on October 8, 2014. Additional training sessions will be conducted as needed throughout the duration of the project.

Eelgrass Resources

Boundaries of existing eelgrass beds were staked with floating buoys by BAE staff on August 25, 2014.

A post-dredge eelgrass survey will be completed within 30 days of completion of each dredging episode in accordance with the Southern California Eelgrass Mitigation Program (SCEMP).

Marine Mammals and Turtles

No marine mammals or turtles were observed within the project area during this period.

No injuries or unintended disturbance to marine mammals or turtles occurred during this period.

Special-status Seabirds and Waterfowl

Four double-crested cormorants, three brown pelicans, one grebe, one egret, and multiple seagulls were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Biological Monitoring

Date	Time	Biologist	Species Observed	Count	Location/Behavior/Comments/Weather
16-Sep	1015-1700	Kyle King	None	N/A	NA/NA/NA/90F Sun
17-Sep	0710-1800	Kyle King	None	N/A	NA/NA/NA/86F, Partly Cloudy
18-Sep	0700-1645	Kyle King	None	N/A	NA/NA/NA/90F, Sun
19-Sep	0700-1630	Kyle King	BRPE (0850)	1	SMU-1/perching/no disturbance noted/75F, Sun
22-Sep	0745-1700	Kyle King	None	N/A	NA/NA/NA/77F, Sun
23-Sep	0710-1720	Kyle King	None	N/A	NA/NA/NA/77F, Sun
24-Sep	0700-1515	Kyle King	None	N/A	NA/NA/NA/82F, Sun
25-Sep	0720-1530	Mike Roberts	None	N/A	NA/NA/NA/82F, Sun
26-Sep	0700-1530	Kyle King	None	N/A	NA/NA/NA/77F, Sun
29-Sep	0730-1700	Kyle King	Seagulls (various) Egret (1500)	Multiple 1	NA/NA/NA/77F, Sun SMU-1/perching/no disturbance noted/77F, Sun
30-Sep	0700-1645	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/77F, Sun

BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant; LETE = California least tern

MM - marine mammal (describe species in comments); GT = green sea turtle

Location: area within project site

Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)

Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

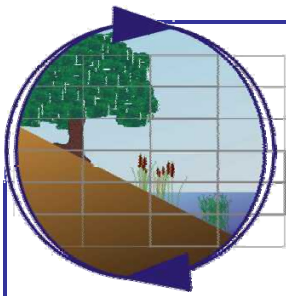
The next monitoring report will cover the period October 1-31, 2014.

If you have any further questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Holly J. Henderson" followed by a horizontal line.

Holly Henderson
Senior Biologist



Merkel & Associates, Inc.

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November 3, 2014

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: October 2014 Monthly Monitoring Report #2 (October 2014) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during October 2014. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Training during October included an October 8 contractor training session with R.E. Staite and an October 16 environmental training session with a new monitor, Nick Kennedy (Anchor QEA). M&A biologist, Bonnie Peterson, performed a site walk with Anchor QEA monitors to review avian monitoring protocols and field data sheet procedures on October 22. A second training session with R.E. Staite staff is scheduled for the first week of November. Additional training sessions will continue to be conducted as needed throughout the duration of the project.

Marine Mammals and Turtles

No marine mammals or turtles were observed within the project area during this period.

No injuries or unintended disturbance to marine mammals or turtles occurred during this period.

Special-status Seabirds and Waterfowl

Forty-two western gull, twenty-one double-crested cormorants, three brown pelicans, three rock pigeons, two grebes, and multiple seagulls were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1 on the following page.

The next monitoring report will cover the period November 1-30, 2014.

If you have any further questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Holly J. Henderson".

Holly Henderson
Senior Biologist

Table 1. Dates and Time of Biological Monitoring

Date	Time	Biologist	Species Observed	Count	Location/Behavior/Comments/Weather
1-Oct	0700-1245	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/75F, Sun
2-Oct	0700-1700	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/86F, Sun
3-Oct	0700-1420	Kyle King	Seagulls (1100)	1	NA/NA/NA/86F, Sun
6-Oct	0700-1600	Kyle King	Seagulls (various) Grebe (1125)	Multiple 1	NA/NA/NA/80F, Partly Cloudy Pier 1 North/swimming/no disturbance noted/80F, Sun
7-Oct	0700-1645	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/86F, Sun
8-Oct	0700-1550	Kyle King	Seagulls (various) BRPE (1345) DCCO (1405)	Multiple 1 3	NA/NA/NA/86F, Sun Pier 1 North/FL/no disturbance noted/84F, Cloudy Pier 4 South/perching/no disturbance noted/84F, Cloudy
9-Oct	0700-1600	Kyle King	Seagulls (various) BRPE (0735) DCCO (0735)	Multiple 1 1	NA/NA/NA/79F, Cloudy Pier 4 South/perching/no disturbance noted/79F, Cloudy Pier 4 South/perching/no disturbance noted/79F, Cloudy
10-Oct	0700-1430	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/77F, Cloudy
13-Oct	0700-1545	Kyle King	Seagulls (various) DCCO (1345)	Multiple 2	NA/NA/NA/76F, Sunny Pier 4 South/perching/no disturbance noted/76F, Sunny
14-Oct	0700-1730	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/72F, Cloudy
15-Oct	0700-1500	Kyle King	Seagulls (various) DCCO (0935)	Multiple 1	NA/NA/NA/76F, Sunny Pier 4 South/perching/no disturbance noted/72F, Cloudy
16-Oct	0730-1530	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/74F, Cloudy
17-Oct	0730-1620	Kyle King	Seagulls (various)	Multiple	NA/NA/NA/73F, Cloudy
20-Oct	1050	Nick Kennedy	WG	1	Pier 1N/NA/no disturbance/68F, Cloudy
21-Oct	835	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/69F, Cloudy
	900	Nick Kennedy	DCCO	1	Pier 1N/perching/no disturbance/69F, Sunny
	900	Nick Kennedy	WG	3	Pier 1 N/perching/no disturbance/69F, Sunny
	1155	Kyle King	DCCO	2	Pier 1 N/perching/no disturbance/70F, Sunny
22-Oct	830	Nick Kennedy	WG	3	Pier 1 N/perching/no disturbance/65F, Sunny
	1215	Nick Kennedy	WG	2	Pier 1 N/perching/no disturbance/77F, Sunny
23-Oct	800	Nick Kennedy	WG	1	Pier 1 N/flying/no disturbance/62F, Sunny
	1000	Kyle King	DCCO	7	Pier 4 S/perching/no disturbance/70F, Sunny
	1100	Nick Kennedy	WG	3	Pier 4 S/perching/no disturbance/72F, Sunny
	1110	Nick Kennedy	WG	1	Pier 1 N/flying/no disturbance/72F, Sunny
	1510	Nick Kennedy	WG	1	Pier 1 N/flying/no disturbance/74F, Sunny
24-Oct	830	Nick Kennedy	WG	1	Pier 1 N/flying/no disturbance/65F, Sunny
	1050	Nick Kennedy	WG	3	Pier 1 N/flying/no disturbance/70F, Sunny
	1300	Kyle King	WG	1	Pier 1 N/flying/no disturbance/83F, Sunny
	1255	Kyle King	WGR	1	Pier 1 N/swimming/no disturbance/86F, Sunny
	1255	Kyle King	WG	1	Pier 1 N/flying/no disturbance/86F, Sunny
27-Oct	750	Kyle King	DCCO	1	Pier 1N/swimming/no disturbance/65F, Sunny
	940	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/67F, Sunny
	1020	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/70F, Sunny
	1130	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/71F, Sunny
	1130	Nick Kennedy	WG	1	Pier 1N/resting/no disturbance/71F, Sunny
28-Oct	940	Kyle King	DCCO	1	Pier 1N/resting/no disturbance/ 62F, Sunny
	1110	Nick Kennedy	WG	5	Pier 1N/resting/no disturbance/ 70F, Sunny
	1110	Nick Kennedy	Rock Pigeon	1	Pier 1N/resting/no disturbance/ 70F, Sunny
29-Oct	1000	Nick Kennedy	WG	1	Pier 1N/resting/no disturbance/ 72F, Sunny
	1010	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/ 72F, Sunny
30-Oct	900	Nick Kennedy	Rock Pigeon	2	Pier 1N/flying/no disturbance/ 67F, Sunny
	1030	Nick Kennedy	DCCO	1	Pier 1N/resting/no disturbance/ 70F, Sunny
	1420	Nick Kennedy	WG	1	Pier 1N/flying/no disturbance/ 73F, Sunny
31-Oct	940	Nick Kennedy	WG	3	Pier 1N/flying/no disturbance/ 68F, Cloudy
	1510	Nick Kennedy	DCCO	1	Pier 1N/resting/no disturbance/ 68F, Cloudy
	1510	Nijck	BRPE	1	Pier 1N/resting/no disturbance/ 68F, Cloudy

BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant; LETE = California least tern; WG = western gull

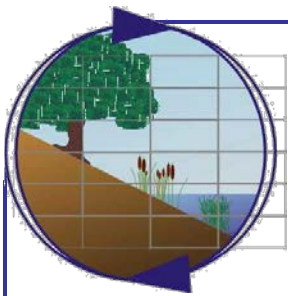
WGR = western grebe

MM - marine mammal (describe species in comments); GT = green sea turtle

Location: area within project site

Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)

Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)



Merkel & Associates, Inc.

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December 5, 2014

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #3 (November 2014) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during November 2014. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

A November 17 training session was held with the R.E. Staite Sediment Management Area crew. Additional training sessions will continue to be conducted as needed throughout the duration of the project.

Marine Mammals and Turtles

No marine mammals or turtles were observed within the project area during this period.

No injuries or unintended disturbance to marine mammals or turtles occurred during this period.

Special-status Seabirds and Waterfowl

Sixty-one double-crested cormorants, fifty-three western gull, seven brown pelicans, six snowy egrets, two rock pigeons, one western grebe, and one great blue heron were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Biological Monitoring

Date	Time	Biologist	Species Observed	Count	Location/Behavior/Comments/Weather
1-Nov	800	Nick Kennedy	WG	5	Pier 1N/flying/no disturbance/ 65F, Cloudy
2-Nov	1115	Kyle King	WG	2	Pier 1N/flying/no disturbance/70F, Sunny
	1225	Kyle King	WG	1	Pier 1N/flying/no disturbance/72F, Sunny
3-Nov	755	Kyle King	WG	1	Pier 1N/flying/no disturbance/70F, Sunny
4-Nov	1420	Nick Kennedy	WG	10	Pier 1N/flying/no disturbance/72F, Sunny
	1540	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/72F, Sunny
5-Nov	710	Nick Kennedy	BRPE	1	Pier 1N/resting/no disturbance/55F, Sunny
	900	Nick Kennedy	WG	6	Pier 1N/resting/no disturbance/60F, Sunny
	1300	Nick Kennedy	DCCO	2	Pier 4S/resting/no disturbance/60F, Sunny
	1300	Nick Kennedy	WG	8	Pier 4S/resting/no disturbance/60F, Sunny
6-Nov	720	Kyle King	WGR	1	Pier 1N/swimming/no disturbance/60F, Sunny
	935	Kyle King	DCCO	1	Pier 1N/foraging/no disturbance/60F, Sunny
7-Nov	820	Nick Kennedy	WG	4	Pier 1N/flying/no disturbance/71F, Sunny
	950	Nick Kennedy	WG	3	Pier 1N/flying/no disturbance/75F, Sunny
	1450	Nick Kennedy	Snowy Egret	2	Pier 1N/flying/no disturbance/84F, Sunny
8-Nov	935	Kyle King	WG	1	Pier 1N/flying/no disturbance/72F, Sunny
10-Nov	1000	Nick Kennedy	WG	1	Pier 1N/flying/no disturbance/63F, Sunny
	1040	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/65F, Sunny
	1250	Nick Kennedy	GBH	1	Pier 1N/resting/no disturbance/68F, Sunny
11-Nov	0900	Kyle King	WG	1	Pier 1N/flying/no disturbance/63F, Sunny
	1200	Kyle King	DCCO	1	Pier 1N/foraging/no disturbance/65F, Sunny
	1400	Kyle King	WG	2	Pier 1N/flying/no disturbance/65F, Sunny
12-Nov	0730	Nick Kennedy	WG	2	Pier 1N/flying/no disturbance/65F, Sunny
	1400	Nick Kennedy	DCCO		Pier 4S/flying/no disturbance/70F, Sunny
13-Nov	0740	Nick Kennedy	Rock Pigeon	2	Pier 1N/flying/no disturbance/64F, Sunny
	0900	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/65F, Sunny
	1400	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/70F, Sunny
14-Nov	0430	Kyle King	Snowy Egret	3	Pier 1N/perched/no disturbance/64F, Partly Cloudy
	0830	Nick Kennedy	DCCO	1	Pier 1N/resting/no disturbance/65F, Partly Cloudy
	0910	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/65F, Partly Cloudy
	1120	Nick Kennedy	BRPE	1	Pier 1N/resting/no disturbance/65F, Partly Cloudy

15-Nov	0429	Kyle King	Snowy Egret	1	Pier 1N/perched/no disturbance/62F, Partly Cloudy
	1300	Nick Kennedy	WG	Multiple	Pier 1N/flying/no disturbance/64F, Sunny
17-Nov	0930	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/55F, Sunny
	1405	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/70F, Sunny
18-Nov	1400	Nick Kennedy	DCCO	4	Pier 4S/resting/no disturbance/75F, Sunny
	1420	Nick Kennedy	BRPE	1	Pier 4S/flying/no disturbance/75F, Sunny
19-Nov	0930	Nick Kennedy	DCCO	3	Pier 4S/resting/no disturbance/60F, Sunny
	1200	Nick Kennedy	DCCO	4	Pier 4S/resting/no disturbance/70F, Sunny
20-Nov	0840	Nick Kennedy	DCCO	3	Pier 4S/resting/no disturbance/55F, Sunny
21-Nov	0735	Kyle King	DCCO	1	Pier 4S/resting/no disturbance/63F, Cloudy
	0735	Kyle King	BRPE	1	Pier 4S/resting/no disturbance/63F, Cloudy
	0830	Kyle King	DCCO	1	Pier 1N/resting/no disturbance/65F, Cloudy
	0900	Kyle King	DCCO	3	Pier 4S/resting/no disturbance/65F, Cloudy
	1225	Kyle King	DCCO	4	Pier 4S/resting/no disturbance/68F, Cloudy
	1420	Kyle King	DCCO	2	Pier 4S/resting/no disturbance/68F, Cloudy
22-Nov	0945	Kyle King	DCCO	2	Pier 4S/resting/no disturbance/65F, Cloudy
	1230	Kyle King	DCCO	3	Pier 4S/resting/no disturbance/71F, Cloudy
24-Nov	1135	Kyle King	DCCO	1	Pier 1S/swimming/no disturbance/70F, Cloudy
	1155	Kyle King	DCCO	2	Pier 4S/resting/no disturbance/70F, Cloudy
	1455	Kyle King	DCCO	3	Pier 4S/resting/no disturbance/70F, Cloudy
25-Nov	820	Nick Kennedy	DCCO	3	Pier 4S/resting/no disturbance/60F, Sunny
	1343	Nick Kennedy	DCCO	1	Pier 4S/resting/no disturbance/76F, Sunny
	1550	Nick Kennedy	BRPE	1	Pier 1N/flying/no disturbance/77F, Sunny
26-Nov	715	Nick Kennedy	BRPE	1	Pier 1N/resting/no disturbance/55F, Sunny
	715	Nick Kennedy	DCCO	1	Pier 1N/resting/no disturbance/55F, Sunny
	900	Nick Kennedy	DCCO	4	Pier 4S/resting/no disturbance/68F, Sunny
	900	Nick Kennedy	DCCO	1	Pier 4S/swimming/no disturbance/68F, Sunny
	900	Nick Kennedy	BRPE	1	Pier 4S/flying/no disturbance/68F, Sunny
	1130	Nick Kennedy	DCCO	4	Pier 4S/resting/no disturbance/80F, Sunny

BRPE = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant;

LETE = California least tern; **WG** = western gull; **WGR** = western grebe

MM - marine mammal (describe species in comments); **GT** = green sea turtle

Location: area within project site

Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)

Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

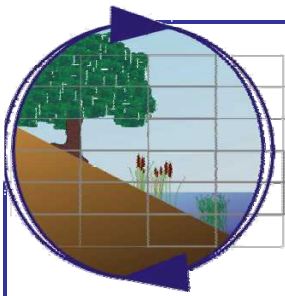
M&A biologist, Bonnie Peterson, performed the monthly site walk on November 21. Work observed during this visit included dredging on the south side of the new dock at Pier 4 and unloading of dredge material from the barge onto trucks on the dock in front of R.E. Staite. During her visit, she confirmed that all operations appeared to be running smoothly and double silt fencing was in place.

The next monitoring report will cover the period December 1-31, 2014.

If you have any further questions, please contact me.

Sincerely,

Holly Henderson
Senior Biologist



Merkel & Associates, Inc.

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January 12, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
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Robert Smith
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Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #4 (December 2014) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during December 2014. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

No formal training was conducted during the month of December, but regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given.

Marine Mammals and Turtles

Two California sea lions were observed swimming within the project area during this monitoring period. No construction activity was taking place during either of these observations, and no disturbance was noted.

Special-status Seabirds and Waterfowl

Sixty-eight double-crested cormorants and thirteen brown pelicans were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
1-Dec	0800	Nick Kennedy	DCCO	1	Pier 4S	R	57F, partly cloudy	No disturbance	Offloading and Dredging Activities
	0920	Nick Kennedy	DCCO	3	Pier 4S	R	58F, partly cloudy	No disturbance	
	1000	Nick Kennedy	BRPE	1	Pier 4S	S	59F, partly cloudy	No disturbance	
	1045	Kyle King	DCCO	2	Pier 4S	R	59F, partly cloudy	No disturbance	
	1420	Kyle King	DCCO	3	Pier 4S	R	70F, partly cloudy	No disturbance	
	1620	Kyle King	DCCO	1	Pier 1N	F	70F, partly cloudy	No disturbance	
	1620	Kyle King	DCCO	1	Pier 1N	S	70F, partly cloudy	No disturbance	
	1625	Kyle King	MM	1	Pier 1N	S	70F, partly cloudy	California Sea Lion, No construction activity in the area, No disturbance noted.	
2-Dec	0800	Nick Kennedy	DCCO	1	Pier 4S	R	65F, cloudy	No disturbance	Offloading and Dredging Activities
	0930	Nick Kennedy	DCCO	1	Pier 4S	R	65F, cloudy	No disturbance	
	1220	Kyle King	DCCO	3	Pier 4S	R	65F, cloudy	No disturbance	
	1415	Nick Kennedy	BRPE	1	Pier 1N	R	68F, cloudy	No disturbance	
	1430	Kyle King	DCCO	1	Pier 1N	R	68F, cloudy	No disturbance	
	1500	Kyle King	DCCO	2	Pier 4S	R	68F, cloudy	No disturbance	
3-Dec	0725	Nick Kennedy	DCCO	2	Pier 4S	R	65F, cloudy	No disturbance	Offloading and Dredging Activities
	0920	Nick Kennedy	DCCO	1	Pier 4S	R	65F, cloudy	No disturbance	
	1230	Nick Kennedy	DCCO	7	Pier 4S	R	65F, cloudy	No disturbance	
	1500	Nick Kennedy	DCCO	2	Pier 4S	R	68F, cloudy	No disturbance	
4-Dec	0720	Nick Kennedy	BRPE	1	Pier 1N	R	65F, cloudy	No disturbance	Offloading and Dredging Activities
	1025	Nick Kennedy	DCCO	3	Pier 4S	R	67F, cloudy	No disturbance	
	1240	Nick Kennedy	DCCO	1	Pier 4S	R	68F, partly sunny	No disturbance	
5-Dec	0910	Nick Kennedy	DCCO	3	Pier 4S	R	64F, cloudy	No disturbance	Offloading and Dredging Activities
	1400	Nick Kennedy	DCCO	2	Pier 4S	R	68F, partly sunny	No disturbance	
6-Dec	0840	Nick Kennedy	DCCO	4	Pier 4S	R	64F, cloudy	No disturbance	Offloading and Dredging Activities
	1000	Nick Kennedy	BRPE	1	Pier 4S	R	64F, cloudy	No disturbance	
8-Dec	0700	Nick Kennedy	BRPE	1	Pier 1 North	R	55F, sunny	No disturbance	Offloading and Dredging Activities
	0850	Nick Kennedy	DCCO	2	Pier 1 North	R	60F, sunny	No disturbance	
	1200	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, sunny	No disturbance	
	1130	Nick Kennedy	MM	1	Pier 4 South	S	65F, sunny	California sea lion swimming with no disturbance noted. No dredging activities	
	1330	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance	
9-Dec	0800	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, sunny	No disturbance	Offloading and Dredging Activities
10-Dec	0910	Nick Kennedy	BRPE	1	Pier 1 North	R	55F, foggy	No disturbance	Offloading and Dredging Activities
	1100	Nick Kennedy	DCCO	3	Pier 1 North	R	64F, sunny	No disturbance	
11-Dec	1000	Nick Kennedy	DCCO	1	Pier 1 North	R	63F, partly cloudy	No disturbance	Offloading and Dredging Activities
	1200	Nick Kennedy	BRPE	1	Pier 1 North	R	66F, partly cloudy	No disturbance	
	1200	Nick Kennedy	DCCO	1	Pier 1 North	R	66F, partly cloudy	No disturbance	
12-Dec	1020	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, rainy	No disturbance	Offloading and Dredging Activities
	1200	Nick Kennedy	BRPE	1	Pier 1 North	R	65F, rainy	No disturbance	

15-Dec	0830	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, cloudy	No disturbance	Offloading
16-Dec	0715	Nick Kennedy	BRPE	1	Pier 1 North	F	57F, cloudy	No disturbance	Offloading and Dredging Activities
17-Dec	1320	Kyle King	BRPE	2	Pier 1 South	FL	63F, cloudy	No disturbance	Offloading and Dredging Activities
18-Dec	830	Nick Kennedy	DCCO	1	Pier 1 South	F	56F, cloudy	No disturbance	Offloading
19-Dec									No offloading or dredging; general maintenance. Anchor QEA offsite at 1000 due to inactivity
22-Dec	0710	Nick Kennedy	DCCO	2	Pier 1 North	F, R	55F, sunny	No disturbance noted	Maintenance
	0710	Nick Kennedy	BRPE	1	Pier 1 North	FL	55F, sunny	No disturbance noted	
	0730	Nick Kennedy	DCCO	1	Pier 1 South	F	55F, sunny	No disturbance noted	
23-Dec	0810	Nick Kennedy	DCCO	1	Pier 1 North	F	55F, sunny	No disturbance noted	Dredging Activities
	0922	Nick Kennedy	DCCO	2	Pier 1 North	R	57F, sunny	No disturbance noted	
	1300	Nick Kennedy	DCCO	1	Pier 1 North	F	72F, sunny	No disturbance noted	
26-Dec	0805	Nick Kennedy	DCCO	1	Pier 1 South	R	50F, sunny	No disturbance noted	Dredging Activities
	0900	Nick Kennedy	BRPE	1	Pier 1 South	R	52F, sunny	No disturbance noted	
29-Dec	0815	Nick Kennedy	BRPE	1	Pier 1 North	R	50F, sunny	No disturbance noted	Maintenance
	0815	Nick Kennedy	DCCO	1	Pier 1 North	R	50F, sunny	No disturbance noted	
	0930	Nick Kennedy	DCCO	2	Pier 1 North	R	55F, sunny	No disturbance noted	

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Bonnie Peterson, performed a site walk on December 29. Work observed during this visit included maintenance work at Pier 1 and Pier 4. No in-water work was being conducted at the time of the visit.

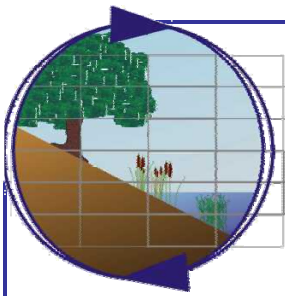
The next monitoring report will cover the period January 1-31, 2015.

If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist



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February 6, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #5 (January 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during December 2014. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given throughout the month.

Marine Mammals and Turtles

Two harbor seals were observed swimming within the project area during this monitoring period. No disturbance was noted.

Special-status Seabirds and Waterfowl

Several hundred double-crested cormorants and fifteen to twenty brown pelicans were observed during this monitoring period. The observations were normally of one to four or five birds at a time. On January 26 and 31, however, double-crested cormorants were seen in much higher numbers. This was likely due to the storm events taking place at the time, as well as normal seasonal movement patterns. No nesting or indications of pre-nesting activities have been observed.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
5-Jan	0830	Nick Kennedy	BRPE	1	Pier 1 North	F	50F, sunny	No disturbance	Sheering Pile Caps and Demolition of Pier 2
	1100	Nick Kennedy	DCCO	1	Pier 1 South	R	60F, sunny	No disturbance	
	1500	Nick Kennedy	DCCO	1	Pier 1 South	R	70F, sunny	No disturbance	
6-Jan	1300	Nick Kennedy	DCCO	5	Pier 1 North	R	76F, sunny	No disturbance	Sheering Pile Caps and Demolition of Pier 2
7-Jan	0800	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, sunny	No disturbance	Sheering Pile Caps and Demolition of Pier 2
	1020	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, sunny	No disturbance	
8-Jan	1110	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, partly sunny	No disturbance	Sheering Pile Caps and Demolition of Pier 2
	1125	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, partly sunny	No disturbance	
	1220	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, partly sunny	No disturbance	
	1220	Nick Kennedy	BRPE	1	Pier 1 North	F	60F, partly sunny	No disturbance	
9-Jan	0820	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, partly sunny	No disturbance	Demolition of Pier 2
	0840	Nick Kennedy	DCCO	2	Pier 1 North	R	55F, partly sunny	No disturbance	
	1010	Nick Kennedy	DCCO	1	Pier 1 North	S	55F, partly sunny	No disturbance	
10-Jan	0900	Nick Kennedy	DCCO	2	Pier 1 North	R	55F, partly sunny	No disturbance	Demolition of Pier 2
12-Jan	0815	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, partly sunny	No disturbance	Pier 2 Demolition
	1240	Nick Kennedy	DCCO	4	Pier 1 North	R	65F, partly sunny	No disturbance	
	1450	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, partly sunny	No disturbance	
13-Jan	0940	Nick Kennedy	DCCO	1	Pier 1 North	R	56F, partly sunny	No disturbance	Pier 2 Demolition
	0940	Nick Kennedy	BRPE	1	Pier 1 North	FL	56F, partly sunny	No disturbance	
	1430	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, partly sunny	No disturbance	
14-Jan	0750	Kyle King	DCCO	3	Pier 1 North	R	54F, sunny	No disturbance	Pier 2 Demolition
	1215	Kyle King	DCCO	2	Pier 1 North	R	60F, sunny	No disturbance	
	1215	Kyle King	DCCO	2	Pier 1 North	F	60F, sunny	No disturbance	
15-Jan	0930	Nick Kennedy	DCCO	3	Pier 1 North	R	55F, sunny	No disturbance	Pier 2 Demolition
	0930	Nick Kennedy	DCCO	1	Pier 1 North	F	55F, sunny	No disturbance	
	1150	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance	
16-Jan	0800	Kyle King	DCCO	2	Pier 1 North	R	65F, sunny	No disturbance	Pier 2 Demolition
	1000	Kyle King	DCCO	2	Pier 1 North	R	65F, sunny	No disturbance	
17-Jan	1030	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance	Pier 2 Demolition and Dredging
	1140	Nick Kennedy	BRPE	1	Pier 1 North	R	65F, sunny	No disturbance	
19-Jan	0730	Nick Kennedy	DCCO	1	Pier 1 North	R	50F, sunny	No disturbance	Pier 2 Demolition and Dredging
	1240	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance	
	1240	Nick Kennedy	MM	1	Pier 1 North	R	60F, sunny	Harbor seal swimming in Pier 1 North; no disturbance noted. Construction crew	
20-Jan	0800	Nick Kennedy	BRPE	1	Pier 1 North/Sout	R, F	54F, foggy	No disturbance	Pier 2 Demolition
	1040	Kyle King	DCCO	1	Pier 1 North	S	60F, sunny	No disturbance	

21-Jan	1050	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance	Pier 2 Demolition
	1225	Kyle King	DCCO	2	Pier 1 South	R	64F, sunny	No disturbance	
22-Jan	0930	Nick Kennedy	DCCO	1	Pier 1 North	S	65F, sunny	No disturbance	Pier 2 Demolition
	1130	Nick Kennedy	DCCO	1	Pier 1 North	S	69F, sunny	No disturbance	
	1130	Nick Kennedy	DCCO	1	Pier 1 North	R	69F, sunny	No disturbance	
	1350	Nick Kennedy	DCCO	2	Pier 1 North	R	69F, sunny	No disturbance	
	1500	Nick Kennedy	DCCO	1	Pier 1 North	R	69F, sunny	No disturbance	
23-Jan	1030	Nick Kennedy	DCCO	1	Pier 1 North	S	60F, sunny	No disturbance	Debris Relocation
	1200	Nick Kennedy	DCCO	1	Pier 1 North	S	60F, sunny	No disturbance	
	1300	Nick Kennedy	MM	1	Pier 1 South	S	65F, sunny	Harbor seal swimming in Pier 1 South; no disturbance noted. No dredging was taking place. Construction crew notified.	
	1300	Nick Kennedy	DCCO	1	Pier 1 South	R	65F, sunny	No disturbance	
26-Jan	0840	Kyle King	DCCO	4	Pier 1 North	R	60F, cloudy	No disturbance	Dredging Pier 1 South and Pie Debris Removal in Pier 1 North
	0955	Nick Kennedy	DCCO	50-100	Pier 1 South Pier 1 North	R, S, F	60F, cloudy	No disturbance	
	1300	Nick Kennedy	DCCO	5	Pier 1 North	R, S	64F, rain	No disturbance	
27-Jan	0725	Kyle King	DCCO	2	Pier 1 North	R, S	54F, cloudy	No disturbance	Dredging and Offloading
	0745	Kyle King	DCCO	2	Pier 1 South	R	66F, cloudy	No disturbance	
	1620	Nick Kennedy	BRPE	1	Pier 1 North	R	65F, sunny	No disturbance	
28-Jan	1300	Nick Kennedy	BRPE	1	Pier 1 North	R	65F, sunny	No disturbance	Dredging and Offloading
29-Jan	0725	Kyle King	BRPE	1	Pier 1 South	S	60F, cloudy	No disturbance	Dredging and Offloading
	1315	Nick Kennedy	DCCO	1	Pier 1 North	R	68F, cloudy	No disturbance	
30-Jan	1130	Nick Kennedy	DCCO	3	Pier 1 North	R	60F, cloudy	No disturbance	Dredging and Offloading
31-Jan	0945	Kyle King	DCCO	1	Pier 1 South	R, F	63F, cloudy	No disturbance	Dredging and Offloading
	0945	Kyle King	BRPE	2	Pier 1 South	R	63F, cloudy	No disturbance	
	1105	Kyle King	DCCO	100 - 200	Pier 1 North	R, S, F	65F, cloudy	No disturbance	
	1105	Kyle King	BRPE	5 - 10	Pier 1 North	S	65F, cloudy	No disturbance	

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Bonnie Peterson and Brandon Stidum, performed site walks on January 6, 15, 20, and 30. Work observed during these visits included mobilization for and removal of Pier 2 and associated pilings and maintenance work at Pier 4.

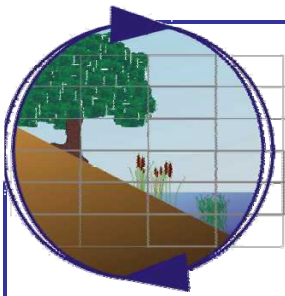
The next monitoring report will cover the period February 1-28, 2015.

If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist



Merkel & Associates, Inc.

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March 9, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #6 (February 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during February 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given throughout the month.

Marine Mammals and Turtles

Two California Sea Lions were observed swimming within the project area during this monitoring period. No disturbance was noted.

Special-status Seabirds and Waterfowl

Over one hundred and fifty double-crested cormorants and over fifty brown pelicans were observed during this monitoring period. The observations were normally of one to four or five birds at a time.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
2-Feb	0800	Kyle King	DCCO	1	Pier 1 N	R	55F, sunny	No disturbance noted	Dredging and Offloading
	1115	Nick Kennedy	DCCO	1	Pier 1 N	R	60F, sunny	No disturbance noted	
	1130	Nick Kennedy	DCCO	2	Pier 1 N/S	R, S	63F, sunny	No disturbance noted	
3-Feb	1200	Nick Kennedy	MM	1	Pier 1	S	70F, sunny	CA sea lion spotted swimming West of Pier . No disturbance noted. No action required by dredge crew	Dredging and Offloading
	1200	Nick Kennedy	DCCO	4	Pier 1 S	R	70F, sunny	No disturbance noted	
4-Feb	0840	Nick Kennedy	DCCO	1	Pier 1 N	R	55F, Sunny	No disturbance noted	Dredging and Offloading
	1100	Nick Kennedy	DCCO	30	Pier 1 N	R	60F, Sunny	No disturbance noted	
	1310	Nick Kennedy	DCCO	10	Pier 1 S	R	65F, sunny	No disturbance noted	
	1310	Nick Kennedy	DCCO	25	Pier 1 N	R,F,S	65F, sunny	No disturbance noted	
	1425	Nick Kennedy	DCCO	55	Pier 1 S	R,F,S	65F, sunny	No disturbance noted	
5-Feb	0833	Nick Kennedy	DCCO	11	Pier 1	R, S	55F, sunny	No disturbance noted	Dredging and Offloading
	0833	Nick Kennedy	BRPE	8	Pier 1	R, S	55F, sunny	No disturbance noted	
	1020	Nick Kennedy	BRPE	10	Pier 1 N	R, S	60F, sunny	No disturbance noted	
	1300	Nick Kennedy	DCCO	6	Pier 1 N	R, S	65F, sunny	No disturbance noted	
	1510	Nick Kennedy	DCCO	2	Pier 1 N	R, S	70F, sunny	No disturbance noted	
6-Feb	0745	Nick Kennedy	DCCO	1	Pier 1	R	55F, fog	No disturbance noted	Dredging and Offloading
	1220	Nick Kennedy	DCCO	4	Pier 1	R, S	74F, sunny	No disturbance noted	
	1220	Nick Kennedy	BRPE	2	Pier 1	FL, S	74F, sunny	No disturbance noted	
10-Feb	0952	Nick Kennedy	DCCO	1	Pier 1 N	R	60F, sunny	No disturbance noted.	BMP improvements
11-Feb	0810	Kyle King	DCCO	1	Pier 1 N	R	60F, sunny	No disturbance noted.	Debris Removal in Pier 1 South
	0900	Kyle King	DCCO	2	Pier 1 N	R	65F, sunny	No disturbance noted.	
	1220	Kyle King	DCCO	2	Pier 1	R	75F, sunny	No disturbance noted.	
	1230	Nick Kennedy	BPPE	5	Pier 1	FL	75F, sunny	No disturbance noted.	
	1230	Nick Kennedy	DCCO	10	Pier 1 N/ Pier 4 S	R	75F, sunny	No disturbance noted.	
	1430	Nick Kennedy	MM	1	Pier 4 S	S	80F, sunny	CA sea lion spotted swimming in Pier 4 S. No work was being conducted in the vicinity. No disturbance noted.	
12-Feb	1630	Nick Kennedy	BRPE	1	Pier 1 N	FL	86F, sunny	No disturbance noted.	
16-Feb	0900	Nick Kennedy	BRPE	1	Pier 1 N	R	66F, sunny	No disturbance	
	1130	Nick Kennedy	BRPE	1	Pier 1 N	R	66F, sunny	No disturbance	
	1420	Nick Kennedy	BRPE	1	Pier 1 N	R	66F, sunny	No disturbance	
17-Feb	0842	Nick Kennedy	BRPE	1	Pier 1 N/S	FL	66F, partly cloudy	No disturbance	Debris Removal in Pier 1 South/ Dredging in Pier 1 North/Offloading
	1030	Nick Kennedy	BRPE	1	Pier 1 N	FL	66F, partly cloudy	No disturbance	

18-Feb	1350	Nick Kennedy	BRPE	1	Pier 1 S	S	68F, partly cloudy	No disturbance	
19-Feb	0820	Nick Kennedy	BRPE	3	Pier 1 N	R	66F, partly cloudy	No disturbance	Debris Removal in Pier 1 South/ Dredging in Pier 1 North/Offloading
	1020	Nick Kennedy	BRPE	3	Pier 1 N	R	68F, partly cloudy	No disturbance	
	1220	Nick Kennedy	BRPE	1	Pier 1 N	S	68F, sunny	No disturbance	
	1320	Nick Kennedy	BRPE	1	Pier 1 N	S	69F, sunny	No disturbance	
20-Feb	0720	Nick Kennedy	BRPE	2	Pier 1 N	S/R	60F, cloudy	No disturbance	Debris Removal in Pier 1 South/ Dredging in Pier 1 North/Offloading
	0945	Nick Kennedy	BRPE	1	Pier 1 N	R	60F, cloudy	No disturbance	
	1220	Nick Kennedy	BRPE	1	Pier 1 N	S	64F, sunny	No disturbance	
21-Feb	1036	Kyle King	DCCO	1	Pier 1 N	R	64F, cloudy	No disturbance	Dredging in Pier 1 North/Offloading
	1145	Kyle King	DCCO	1	Pier 1 N	R	65F, cloudy	No disturbance	
	1145	Kyle King	BRPE	1	Pier 1 N	FL	65F, cloudy	No disturbance	
23-Feb	1350	Kyle King	BRPE	1	Pier 1 N	FL	62F, cloudy	No disturbance	
26-Feb	1030	Nick Kennedy	BRPE	2	Pier 1 N	FL	66F, sunny	No disturbance	
27-Feb	1340	Nick Kennedy	BRPE	1	Pier 1 N	R	65F, cloudy	No disturbance	Dredging in Pier 3 North/Offloading/ Debris removal in Pier 1 South
	1340	Nick Kennedy	BRPE	2	Pier 1 N	R	65F, cloudy	No disturbance	
28-Feb	0915	Kyle King	BRPE	1	Pier 1 N	FL	58F, cloudy	No disturbance	Dredging in Pier 3 North/Offloading
	0925	Kyle King	BRPE/DCO	2	Pier 1 N	S,R	60F, cloudy	No disturbance	
	1245	Kyle King	BRPE	1	Pier 1 N	R	62F, cloudy	No disturbance	

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern
MM - marine mammal (describe species in comments); GT = green sea turtle
2. Location: area within project site
3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on February 5, 13, 20, and 25. Work observed during these visits included dredging and submerged marine railways demolition in Pier 1 South, dredging in Pier 1 North, and dredging in Pier 3 North.

The next monitoring report will cover the period March 1-31, 2015.

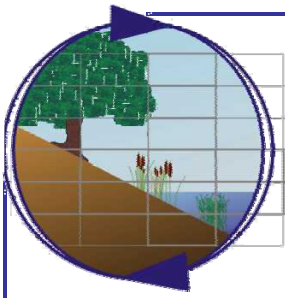
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov



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April 9, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #7 (March 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during March 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given throughout the month.

Marine Mammals and Turtles

No marine mammals were observed within the project area during this monitoring period. No disturbance was noted.

Special-status Seabirds and Waterfowl

Five double-crested cormorants and nine brown pelicans were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

All monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
3-Mar	0850	Nick Kennedy	BRPE	4	Pier 3	R	60F, sunny	No disturbance noted	Dredging in Pier 3 North/Debris Removal in Pier 1
5-Mar	0800	Nick Kennedy	BRPE	1	Pier 1 North	R	58F, sunny	No disturbance noted	Dredging in Pier 3 North/Debris Removal in Pier 1
10-Mar	846	Nick Kennedy	BRPE	1	Pier 1 North	R	60F, sunny	No disturbance noted	Dredging in Pier 1 North
11-Mar	1410	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, partly cloudy	No disturbance noted	Dredging in Pier 1 North
16-Mar	1400	Nick Kennedy	BRPE	1	Pier 1 North	R	85F, sunny	No disturbance noted	Dredging in Pier 1 North and Offloading
17-Mar	1120	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Offloading Sediment in Pier 1 North
18-Mar	1030	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Offloading Sediment in Pier 1 North
19-Mar	1030	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, sunny	No disturbance noted	Offloading Sediment in Pier 1 North and
26-Mar	0730	Kyle King	BRPE	1	Pier 1 North	FL	61F, sunny	No disturbance noted	Pier 2 Disassembling
30-Mar	1300	Nick Kennedy	BRPE	1	Pier 1 North	FL	75F, sunny	No disturbance	Sheet Pile Installation
31-Mar	1000	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, sunny	No disturbance	Debris Removal

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle

2. Location: area within project site

3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)

4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Holly Henderson and Brandon Stidum, performed site walks on March 5, 13, 17, and 24. Work observed during these visits included remnant marine railways demolition in Pier 1

South, dredging in Pier 1 North and Pier 3 North, and shoreline excavation and submerged bulkhead installation adjacent to the Sediment Management Area.

The next monitoring report will cover the period April 1-30, 2015.

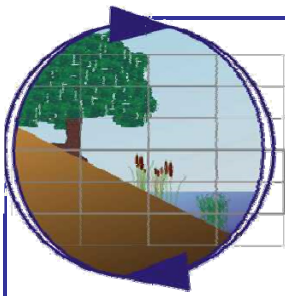
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mikepalmer@cox.net



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May 13, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #8 (April 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during April 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given throughout the month. M&A biologist, Brandon Stidum, conducted California least tern (CLT) training with Anchor QEA, LLC (Anchor QEA) staff on April 2, 2015. The training focused on identification and behavior of CLT in preparation for their arrival into the Bay. Mr. Stidum also attended a tailgate meeting with R.E. Staite Engineering, Inc. (RES) crew on April 11, 2015 to go over the CLT information prior to initiation of dredging.

Marine Mammals and Turtles

One California Sea Lion was observed within the project area on April 20. No disturbance was noted.

Special-status Seabirds and Waterfowl

Five double-crested cormorants and five brown pelicans were observed during this monitoring period.

No adverse impacts to special-status seabirds or waterfowl occurred during this period.

Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
1-Apr	925	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance	Debris Removal
2-Apr	1400	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance	Debris Removal
6-Apr	1340	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, cloudy	No disturbance	Sediment/Debris Removal
8-Apr	1200	Nick Kennedy	BRPE	2	Pier 1 North	FL	70F, sunny	No disturbance	Sediment/Debris Removal
13-Apr	800	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, partly cloudy	No disturbance	Dredging in Pier 4 North and offloading in SMA
16-Apr	1530	Nick Kennedy	BRPE	1	Pier 1 North	FL	78F, sunny	No disturbance	Dredging in Pier 4 North and offloading in SMA
20-Apr	1230	Nick Kennedy	MM	1	Pier 1 South	S	65F, sunny	California Sea Lion swimming in Pier 1 South. No disturbance noted.	Offloading in SMA and dredging in Pier 4 North
20-Apr	1530	Nick Kennedy	BRPE	1	Pier 4 North	FL	65F, sunny	No disturbance noted	Offloading in SMA and dredging in Pier 4 North
29-Apr	1300	Nick Kennedy	BRPE	1	Pier 1 North	FL	70F, sunny	No disturbance noted	Offloading and Dredging
30-Apr	900	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, sunny	No disturbance noted	Offloading and Dredging
20-Apr	830	Kyle King	DCCO	2	Pier 1 North	S	70F, sunny	No disturbance noted	Offloading and Dredging

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern
MM - marine mammal (describe species in comments); GT = green sea turtle
2. Location: area within project site
3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on April 2, 8, 15, 16, 20, and 29. Work observed during these visits included dredging and debris removal in Pier 1 North, and dredging in Pier 4 North.

The next monitoring report will cover the period May 1-31, 2015.

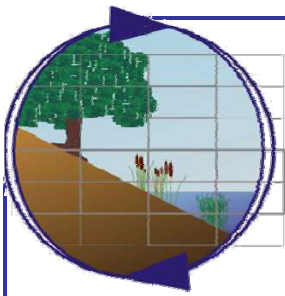
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
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June 11, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #9 (May 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during May 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area were given throughout the month of May.

Marine Mammals and Turtles

Two California Sea Lions were observed within the survey area during the month of May. No disturbance was noted on either occasion.

Special-status Seabirds and Waterfowl

Four double-crested cormorants and one brown pelicans were observed within the survey area during the month of May. No adverse impacts to special-status seabirds or waterfowl occurred during this period. No California least terns were seen within the survey area during May.

Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
4-May	1000	Nick Kennedy	DCCO	1	Pier 1 North	R	65F, cloudy	No disturbance noted	Offloading and Dredging
4-May	1200	Nick Kennedy	MM	1	Pier 1 North	S	66F, cloudy	California Sea Lion foraging in Pier 1 South; No disturbance noted	Offloading and Dredging
15-May	1300	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance noted	Dredging and Offloading
16-May	1100	Kyle King	DCCO	1	Pier 1 North	R	62F, cloudy	No disturbance noted	Dredging and Offloading
19-May	1730	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance noted	Dredging and Offloading
23-May	1200	Nick Kennedy	MM	1	Pier 4 South	F	65F, sunny	California Sea Lion foraging in Pier 4 south. No disturbance noted.	Dredging and Offloading
28-May	1816	Nick Kennedy	BRPE	1	Pier 4 North	FL	65F, sunny	No disturbance noted	Offloading and Dredging

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Brandon Stidum and Edward Ervin, performed site walks on May 6, 13, and 26. Work observed during these visits included dredging in Pier 1 North, Pier 4 North, Pride of San Diego berthing area, and installation of the submerged sheetpile bulkhead adjacent to the Sediment Management Area.

The next monitoring report will cover the period June 1 - 30, 2015.

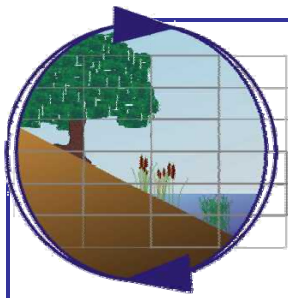
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
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Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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July 20, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
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San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #10 (June 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during June 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of June. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of June.

Special-status Seabirds and Waterfowl

Twenty-one California least terns and four brown pelicans were observed within the survey area during the month of June. No adverse impacts to special-status seabirds or waterfowl occurred during this period.

Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
2-Jun	1010	Nick Kennedy	LETE	2	Pier 1 South	F	66F, sunny	No disturbance noted. Dredge operator halted work to allow LETE's to forage around silt curtains undisturbed. After LETE's left the area, dredging	Dredging, Sand Placement, and Offloading
3-Jun	1200	Nick Kennedy	LETE	1	Pier 3 North	F	66F, sunny	No disturbance noted. No dredging was taking place today.	Sand Placement, and Offloading
9-Jun	700	Nick Kennedy	BRPE	4	Pier 1 North	FL	62F, cloudy	No disturbance noted	Offloading and Pile Removal
9-Jun	1030	Nick Kennedy	LETE	2	Pier 1 North	F	65F, cloudy	No disturbance noted	Offloading and Pile Removal
11-Jun	1200	Nick Kennedy	LETE	1	Pier 1 South	F	65F, cloudy	No disturbance noted	Mobilization and Sand Loading
11-Jun	1320	Nick Kennedy	LETE	1	Pier 1 South	FL	65F, cloudy	No disturbance noted	Mobilization and Sand Loading
12-Jun	1245	Nick Kennedy	LETE	1	Pier 1 South	FL	65F, cloudy	No disturbance noted	Dredging and Sand Placement
13-Jun	1030	Nick Kennedy	LETE	1	Pier 1 South	FL	64F, cloudy	No disturbance noted	Dredging and Sand Placement
15-Jun	945	Kellee Christensen	LETE	1	Dry Dock Berthing Area	FL	65F, cloudy	No disturbance noted	Dredging and Sand Placement
16-Jun	1055	Kellee Christensen	LETE	1	Pier 1 South	FL	63F, cloudy	No disturbance noted	Dredging and Sand Placement
19-Jun	1000	Nick Kennedy	LETE	1	Pier 1 South	FL	65F, partly cloudy	No disturbance noted	Dredging and Sand Placement
23-Jun	1105	Kyle King	LETE	1	Pier 1 North	F	70F, sunny	No disturbance noted	Dredging and Sand Placement
23-Jun	1200	Nick Kennedy	LETE	1	Pier 1 North	FL	70F, sunny	No disturbance noted	Dredging and Sand Placement
25-Jun	1220	Kyle King	LETE	1	Pier 1 North	F	72F, sunny	No disturbance noted	Dredging and Sand Placement
25-Jun	1600	Nick Kennedy	LETE	1	Pier 1 North	F	70F, sunny	No disturbance noted	Dredging and Sand Placement
30-Jun	655	Kyle King	LETE	1	POSD dry dock berthing	F	65F, cloudy	No disturbance noted	Offloading and Sand Placement
30-Jun	1630	Nick Kennedy	LETE	1	POSD dry dock berthing	F	70F, cloudy	No disturbance noted	Offloading and Sand Placement
30-Jun	1810	Nick Kennedy	LETE	1	Pier 1 South	FL	70F, cloudy	No disturbance noted	Offloading and Sand Placement
30-Jun	1910	Nick Kennedy	LETE	2	Pier 1 North	F	70F, cloudy	No disturbance noted	Offloading and Sand Placement

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern

MM = marine mammal (describe species in comments); GT = green sea turtle

2. Location: area within project site

3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)

4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Brandon Stidum and Edward Ervin, performed site walks on June 3, 9, 17, and 23. Work observed during these visits included sediment and debris offloading, identified debris removal (submerged marine railways) in Pier 1 South, sand placement in Pier 4 North, Pier 3 North and underpier areas (BAE Building 13 and northern ramp wharf), and dredging in Pier 1 North and Pride of Sand Diego dry dock berthing area.

The next monitoring report will cover the period July 1 - 31, 2015.

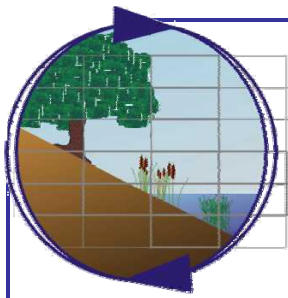
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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August 7, 2015
M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #11 (July 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during July 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of July. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of July.

Special-status Seabirds and Waterfowl

Four California least terns, six double-crested cormorants, and two brown pelicans were observed within the survey area during the month of July. No adverse impacts to special-status seabirds or waterfowl occurred during this period.

Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
3-Jul	1910	Kyle King	LETE	1	Pier 1 North	F	70F, cloudy	No disturbance noted	Sand Placement
14-Jul	1550	Nick Kennedy	LETE	1	Pier 1 North	FL	73F, sunny	No disturbance noted	Offloading, dredging, and sand placement
15-Jul	1115	Kyle King	DCCO	1	Pier 4 South	R	72F, sunny	No disturbance noted	Offloading, dredging, and sand placement
15-Jul	1120	Kyle King	LETE	1	Pier 4 South	F	72F, sunny	No disturbance noted	Offloading, dredging, and sand placement
20-Jul	1915	Nick Kennedy	LETE	1	Pier 4 South	F	75F, cloudy	No disturbance noted	Dredging and Offloading
22-Jul	1140	Kyle King	BPRE	2	Pier 1 North	FL	72F, partly cloudy	No disturbance noted	Dredging and Offloading
23-Jul	1820	Nick Kennedy	DCCO	1	Pier 4 South	R	76F, sunny	No disturbance noted	Dredging and Offloading
24-Jul	855	Kyle King	DCCO	1	Pier 4 South	R	73F, sunny	No disturbance noted	Sand Placement and Offloading
29-Jul	0900	Kyle King	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Dredging
29-Jul	1020	Kyle King	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Dredging
29-Jul	1245	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Dredging

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Brandon Stidum and Edward Ervin, performed site walks on July 1, 9, 15, 24, and 30. Work observed during these visits included sand placement in the Pride of San Diego drydock berthing area and Pier 4 South, dredging in Pier 4 South, and offloading in the Sediment Management Area.

The next monitoring report will cover the period August 1 - 31, 2015.

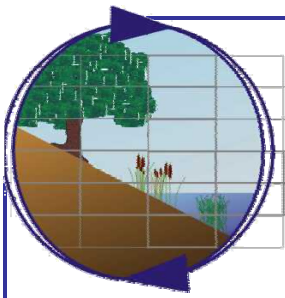
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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September 15, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #12 (August 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during August 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of August. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of August.

Special-status Seabirds and Waterfowl

Thirty-one double-crested cormorants and one brown pelican were observed within the survey area during the month of August. No California least terns were observed during the month of August. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

August 2015									
Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
6-Aug	1230	Nick Kennedy	DCCO	1	Pier 1 North	R	75F, partly cloudy	No disturbance noted	Offloading and Dredging
7-Aug	910	Nick Kennedy	DCCO	2	Pier 4 South	R	70F, partly cloudy	No disturbance noted	Offloading
10-Aug	730	Nick Kennedy	DCCO	2	Pier 4 South	R	66F, cloudy	No disturbance noted	Dredging
11-Aug	1015	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, cloudy	No disturbance noted	Dredging
14-Aug	0800	Nick Kennedy	BRPE	1	Pier 1 North	FL	72F, sunny	No disturbance noted	Offloading
20-Aug	800	Kyle King	DCCO	2	Pier 4 South	R	70F, overcast	No disturbance noted	Offloading and Sand Placement
21-Aug	900	Nick Kennedy	DCCO	2	Pier 4 South	R	72F, overcast	No disturbance noted	Offloading, Dredging, and Sand Placement
21-Aug	1430	Nick Kennedy	DCCO	2	Pier 4 South	R	75F, sunny	No disturbance noted	Offloading, Dredging, and Sand Placement
24-Aug	845	Nick Kennedy	DCCO	3	Pier 4 South	R	66F, overcast	No disturbance noted	Offloading, Dredging, and Sand Placement
24-Aug	845	Nick Kennedy	DCCO	1	Pier 4 South	F	66F, overcast	No disturbance noted	Offloading, Dredging, and Sand Placement
24-Aug	1025	Nick Kennedy	DCCO	4	Pier 4 South	R	66F, overcast	No disturbance noted	Offloading, Dredging, and Sand Placement
25-Aug	1125	Nick Kennedy	DCCO	5	Pier 4 South	R	70F, sunny	No disturbance noted	Offloading, Dredging, and Sand Placement
25-Aug	1410	Nick Kennedy	DCCO	6	Pier 4 South	R	72F, sunny	No disturbance noted	Offloading, Dredging, and Sand Placement

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern

MM - marine mammal (describe species in comments); GT = green sea turtle

2. Location: area within project site

3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)

4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on August 5, 12, 18, and 25. Work observed during these visits included dredging in Pier 1 North, Pier 1 South, and Pier 4 South, pneumatic sand placement under BAE Systems Building 13, and offloading of sediment and debris in the Sediment Management Area.

The next monitoring report will cover the period September 1 - 30, 2015.

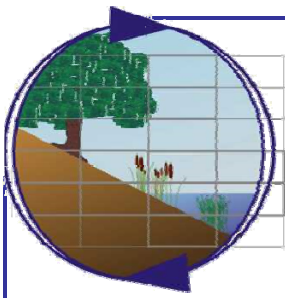
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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October 13, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #13 (September 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during September 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of September. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

One California sea lion was observed within the survey area during the month of September. No disturbance was noted.

Special-status Seabirds and Waterfowl

Fifteen double-crested cormorants and five brown pelicans were observed within the survey area during the month of September. No California least terns were observed during the month of September. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

September 2015									
Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
1-Sep	1430	Nick Kennedy	BRPE	1	Pier 1 North	FL	70F, partly cloudy	No disturbance noted	Sand Placement
8-Sep	1000	Kyle King	BRPE	1	Pier 1 North	R	77F, sunny	No disturbance noted	Sand Placement
9-Sep	1340	Nick Kennedy	BRPE	1	Pier 1	FL	91F, sunny	No disturbance noted	Sand Placement
10-Sep	1430	Nick Kennedy	DCCO	2	Pier 1 North	R	89F, partly cloudy	No disturbance noted	Sand Placement
10-Sep	1500	Nick Kennedy	MM	1	Pier 1 North	S	89F, partly cloudy	California Sea Lion; No disturbance noted	Sand Placement
11-Sep	1510	Nick Kennedy	DCCO	1	Pier 1 North	R	89F, partly cloudy	No disturbance noted	Sand Placement and Dredging at Pier 3 North
17-Sep	1050	Kyle King	BRPE	1	Pier 4 South	R	89F, partly cloudy	No disturbance noted	Sand Placement
17-Sep	1350	Kyle King	DCCO	1	Pier 4 South	R	89F, partly cloudy	No disturbance noted	Sand Placement
22-Sep	1130	Nick Kennedy	DCCO	6	Pier 4 South	R	76F, sunny	No disturbance noted	Sand Placement and Dredging at Pier 3 North
23-Sep	1400	Nick Kennedy	BRPE	1	Pier 1 North	R	80F, sunny	No disturbance noted	Sand Placement and Dredging at Pier 3 North
25-Sep	900	Nick Kennedy	DCCO	4	Pier 4 South	R	75F, sunny	No disturbance noted	Sand Placement at Pier 4 North
25-Sep	930	Nick Kennedy	DCCO	1	Pier 1 North	R	75F, sunny	No disturbance noted	Sand Placement at Pier 4 North

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant; **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologists, Brandon Stidum and Ed Ervin, performed site walks on September 2, 11, 16, and 25. Work observed during these visits included continued dredging in Pier 3 North, pneumatic sand placement under BAE Systems Building 13 and adjoining wharf, gravelly sand placement in Pier 3 North and Pier 4 North, and offloading of debris in the Sediment Management Area.

The next monitoring report will cover the period October 1 - 31, 2015.

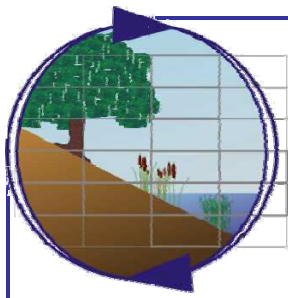
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



Merkel & Associates, Inc.

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November 13, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #14 (October 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during October 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of October. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

One California sea lion was observed within the survey area during the month of October. No disturbance was noted.

Special-status Seabirds and Waterfowl

Twenty-eight double-crested cormorants and five brown pelicans were observed within the survey area during the month of October. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
2-Oct	0745	Kyle King	DCCO	1	Pier 4 South	R	75F, sunny	No disturbance noted	Mobilization to Pier 4 South
2-Oct	0745	Kyle King	BRPE	1	Pier 4 South	R	75F, sunny	No disturbance noted	Mobilization to Pier 4 South
5-Oct	1040	Nick Kennedy	DCCO	2	Pier 4 South	R	60F, rainy	No disturbance noted	Debris Removal at Pier 4 South
5-Oct	1040	Nick Kennedy	BRPE	1	Pier 4 South	R	60F, rainy	No disturbance noted	Debris Removal at Pier 4 South
6-Oct	1330	Nick Kennedy	MM	1	Pier 1	S	62, rainy	No disturbance noted	Debris Removal at Pier 4 South
6-Oct	1450	Nick Kennedy	DCCO	1	Pier 4 South	R	70F, sunny	No disturbance noted	Debris Removal at Pier 4 South and Pier 1 North
14-Oct	1110	Nick Kennedy	DCCO	4	Pier 4 South	R	80F, sunny	No disturbance noted	Debris Removal at Pier 1 North Dredging at Pier 4 South
14-Oct	1315	Nick Kennedy	DCCO	2	Pier 4 South	R	80F, sunny	No disturbance noted	Debris Removal at Pier 1 North Dredging at Pier 4 South
14-Oct	1325	Kyle King	DCCO	1	Pier 4 South	R	80F, sunny	No disturbance noted	Debris Removal at Pier 1 North/ Dredging at Pier 4 South
15-Oct	1005	Nick Kennedy	DCCO	1	Pier 1 North	FL	85F, sunny	No disturbance noted	Revetment Reconstruction at Pier 1 North and Pier 4 South
15-Oct	1400	Nick Kennedy	DCCO	1	Pier 4 South	R	85F, sunny	No disturbance noted	Revetment Reconstruction at Pier 1 North and Pier 4 South
19-Oct	0945	Nick Kennedy	DCCO	1	Pier 4 South	R	70F, cloudy	No disturbance noted	Excavation and Pier 1 North
21-Oct	0930	Kyle King	DCCO	1	Pier 4 South	R	70F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
21-Oct	0930	Nick Kennedy	DCCO	1	Pier 1 North	S	70F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
21-Oct	1000	Nick Kennedy	DCCO	1	Pier 4 South	R	70F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
22-Oct	1100	Nick Kennedy	DCCO	1	Pier 4 South	R	75F, sunny	No disturbance noted	Revetment Repair at Pier 4 South

23-Oct	0800	Nick Kennedy	BRPE	1	Pier 1 North	R	70F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
23-Oct	0815	Nick Kennedy	DCCO	1	Pier 4 South	R	70F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
23-Oct	1040	Nick Kennedy	DCCO	1	Pier 4 South	R	72F, sunny	No disturbance noted	Revetment Repair at Pier 4 South
26-Oct	0745	Nick Kennedy	DCCO	1	Pier 4 South	R	70F, sunny	No disturbance noted	Debris Offloading at SMA/Revetment Reconstruction at Pier 4 South
26-Oct	1225	Nick Kennedy	DCCO	4	Pier 4 South	R	70F, sunny	No disturbance noted	Debris Offloading at SMA/Revetment Reconstruction at Pier 4 South
28-Oct	0800	Nick Kennedy	DCCO	1	Pier 3 South	S	65F, cloudy	No disturbance noted	Dredging at Pier 3 South
28-Oct	1130	Nick Kennedy	DCCO	1	Pier 3 South	R	70F, sunny	No disturbance noted	Dredging at Pier 3 South
28-Oct	1130	Nick Kennedy	BRPE	1	Pier 3 South	R	70F, sunny	No disturbance noted	Dredging at Pier 3 South
29-Oct	0920	Nick Kennedy	BRPE	1	Pier 4 South	R	65F, sunny	No disturbance noted	Dredging at Pier 3 South

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern
MM - marine mammal (describe species in comments); GT = green sea turtle
2. Location: area within project site
3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on October 1, 9, 16, and 27. Work observed during these visits included revetment reconstruction at Pier 4 South and offloading of debris in the Sediment Management Area.

The next monitoring report will cover the period November 1 - 30, 2015.

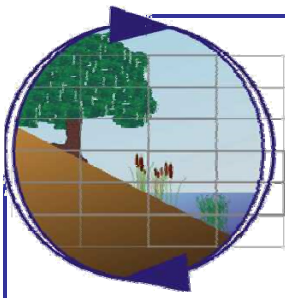
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Kelly Dorsey, RWQCB, Kelly.Dorsey@waterboards.ca.gov
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Merkel & Associates, Inc.

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December 8, 2015

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #15 (November 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during November 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of November. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of November.

Special-status Seabirds and Waterfowl

Ten double-crested cormorants were observed within the survey area during the month of November. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
6-Nov	1040	Kyle King	DCCO	2	Pier 1 North	R	60F, sunny	No disturbance noted	Offloading, Dredging, and Sand Placement
9-Nov	0940	Nick Kennedy	DCCO	2	Pier 1 North	R	65F, cloudy	No disturbance noted	Offloading and Dredging
18-Nov	1610	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance noted	Offloading and Dredging
19-Nov	1100	Nick Kennedy	DCCO	1	Pier 3 South	S	60F, sunny	No disturbance noted	Offloading and Dredging
20-Nov	1100	Nick Kennedy	DCCO	1	Pier 1 North	S	60F, sunny	No disturbance noted	Offloading and Dredging
23-Nov	0920	Nick Kennedy	DCCO	1	Pier 1 North	R	67F, sunny	No disturbance noted	Dredging and Offloading
23-Nov	1110	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Dredging and Offloading
23-Nov	1220	Nick Kennedy	DCCO	1	Pier 1 North	R	70F, sunny	No disturbance noted	Dredging and Offloading

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern
MM - marine mammal (describe species in comments); **GT** = green sea turtle
2. Location: area within project site
3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on November 4, 13, and 18, 2015. Work observed during these visits included continued revetment reconstruction and offloading of debris in the Sediment Management Area.

The next monitoring report will cover the period December 1 - 31, 2015.

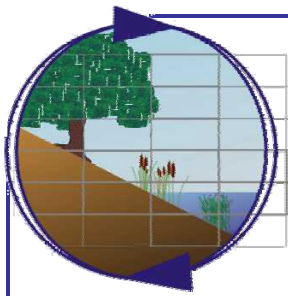
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
Alan Monji, RWQCB, Alan.Monji@waterboards.ca.gov
Eric Becker, RWQCB, Eric.Becker@waterboards.ca.gov
sandiego@waterboards.ca.gov
Sandor Halvax, BAE Systems, Sandor.Halvax@baesystems.com
Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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January 7, 2016

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #16 (December 2015) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during December 2015. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of December. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor QEA monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of December.

Special-status Seabirds and Waterfowl

Eleven double-crested cormorants and nine brown pelicans were observed within the survey area during the month of December. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
1-Dec	1010	Nick Kennedy	DCCO	1	Pier 1 North	R	50F, sunny	No disturbance noted	Dredging and SMA Shoreline Revetment Repair
3-Dec	0915	Kyle King	DCCO	1	Pier 1 North	R	56F, sunny	No disturbance noted	Dredging and SMA Shoreline Revetment Repair
4-Dec	1140	Kyle King	BRPE	2	Pier 4 South	R	70F, sunny	No disturbance noted	Dredging and SMA Shoreline Revetment Repair
8-Dec	0740	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance noted	Offloading, Dredging, and SMA Revetment Repair
8-Dec	0850	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, sunny	No disturbance noted	Offloading, Dredging, and SMA Revetment Repair
9-Dec	1050	Nick Kennedy	DCCO	1	Pier 1 North	R	63F, sunny	No disturbance noted	Offloading, Dredging, and SMA Revetment Repair
14-Dec	1035	Nick Kennedy	DCCO	1	Pier 1 North	R	63F, cloudy	No disturbance noted	Sand Load Out
16-Dec	0950	Nick Kennedy	BRPE	1	Pier 1 North	FL	65F, sunny	No disturbance noted	Sand Placement
17-Dec	1025	Nick Kennedy	DCCO	1	Pier 1 North	R	58F, sunny	No disturbance noted	Sand Load Out and Placement
23-Dec	1000	Nick Kennedy	BRPE	2	Pier 1 North	FL	65F, cloudy	No disturbance noted	Sand Placement
23-Dec	1200	Nick Kennedy	DCCO	3	Pier 1 North	FL	65F, cloudy	No disturbance noted	Sand Placement
28-Dec	0750	Kyle King	BRPE	1	Pier 1 North	S	48F, cloudy	No disturbance noted	Sand Placement
28-Dec	0750	Kyle King	BRPE	2	Pier 1 North	FL	48F, cloudy	No disturbance noted	Sand Placement
28-Dec	0751	Kyle King	DCCO	1	Pier 1 North	F	48F, cloudy	No disturbance noted	Sand Placement
29-Dec	0900	Kyle King	BRPE	1	Pier 1	R	46F, sunny	No disturbance noted	Baker Tank Clean Out

Notes:

1. **BRPE** = brown pelican; **DCCO** = double-crested cormorant; **ELTE** = elegant tern; **BLSK** = black skimmer; **BRAN** = brant, **LETE** = California least tern

MM - marine mammal (describe species in comments); **GT** = green sea turtle

2. Location: area within project site

3. Behavior: **F** = foraging; **R** = resting; **FL** = flying; **S** = swimming; **B** = courting or nesting; **O** = other (describe)

4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on December 2, 9, 14, 21, and 30, 2015. Work observed during these visits included dredging at Pier 1 North and Pier 1 South, gravelly sand placement in Pier 1 South, backfilling and compaction of fill behind the installed concrete retaining wall and offloading of treated wood waste in the Sediment Management Area.

The next monitoring report will cover the period January 1 - 31, 2016.

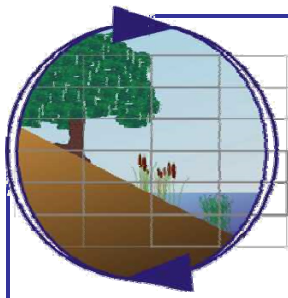
If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

cc: David Barker, RWQCB, David.Barker@waterboards.ca.gov
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Mike Palmer, *de maximis, inc.*, mpalmer@demaximis.com



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e-mail: associates@merkeline.com

February 9, 2016

M&A #13-008-01

Mr. David Gibson, Executive Officer
San Diego Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Robert Smith
U.S. Army Corps of Engineers
Regulatory Division, Carlsbad Field Office
5900 La Place Court, Suite 100
Carlsbad, California 92008

Re: Monthly Monitoring Report #17 (January 2016) for the San Diego Shipyard Sediment Remediation Project – North Shipyard Site, Waste Discharge Requirement Order No. R9-2013-0093, USACE Permit File No. SPL-2013-00146-RRS

Dear Mr. Gibson and Mr. Smith:

Merkel & Associates, Inc. (M&A) has been retained by the San Diego Bay Environmental Restoration Fund – North (North Trust) to provide biological services in support of the San Diego Shipyard Sediment Remediation Project – North Shipyard Site. In that capacity, M&A is providing biological training, monitoring, reporting, and resource protection measures during project implementation. This report provides a summary of monitoring and client education completed during January 2016. This report satisfies the reporting requirement of monitoring activities for eelgrass, marine mammals, marine turtles, and special-status seabirds and waterfowl as defined in the Mitigation Monitoring and Reporting Program (MMRP), mitigation measures 4.5.1 through 4.5.11, and U.S. Army Corps of Engineers (USACE) permit Dredging Condition 28.

Client Education and Training

Regular briefings on the potential for sea turtles, marine mammals, and special status seabirds and waterfowl to be present within the area continued throughout the month of January. This is being accomplished through daily tailgates, informational postings in break rooms, and regular communication between M&A biologists and Anchor QEA monitors.

Marine Mammals and Turtles

No marine mammals were observed within the survey area during the month of January.

Special-status Seabirds and Waterfowl

Between 53 and 63 double-crested cormorants and 21 to 31 brown pelicans were observed within the survey area during the month of January. No adverse impacts to special-status seabirds or waterfowl occurred during this period. Monitoring dates and time periods are summarized in Table 1.

Table 1. Dates and Time of Monitoring

Date	Time	Biologist	Species Observed ¹	Count	Location ²	Behavior ³	Weather	Comments ⁴	RES Daily Operation
4-Jan	0830	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, cloudy	No disturbance noted	Sand Placement
4-Jan	0955	Nick Kennedy	BRPE	1	Pier 1 South	FL	56F, cloudy	No disturbance noted	Sand Placement
5-Jan	0830	Nick Kennedy	BRPE	1	Pier 1 South	R	56F, cloudy	No disturbance noted	Sand Placement
5-Jan	0830	Nick Kennedy	DCCO	1	Pier 1 South	R	56F, cloudy	No disturbance noted	Sand Placement
5-Jan	1245	Nick Kennedy	BRPE	1	Pier 1 North	S	60F, cloudy	No disturbance noted	Sand Placement
6-Jan	1400	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance noted	Sand Placement
8-Jan	0930	Nick Kennedy	BRPE	10-20	Pier 1 North	S	57F, cloudy	No disturbance noted	Sand Placement
8-Jan	0930	Nick Kennedy	DCCO	20-30	Pier 1 North	S	57F, cloudy	No disturbance noted	Sand Placement
11-Jan	1000	Nick Kennedy	BRPE	1	Pier 4 South	R	57F, cloudy	No disturbance noted	Sand Placement
11-Jan	1000	Nick Kennedy	DCCO	2	Pier 4 South	R	57F, cloudy	No disturbance noted	Sand Placement
11-Jan	1550	Nick Kennedy	BRPE	1	Pier 4 South	R	60F, cloudy	No disturbance noted	Sand Placement
11-Jan	1550	Nick Kennedy	DCCO	3	Pier 4 South	R	60F, cloudy	No disturbance noted	Sand Placement
12-Jan	0930	Nick Kennedy	DCCO	2	Pier 1 North	S	48F, cloudy	No disturbance noted	Sand Placement
12-Jan	1600	Nick Kennedy	BRPE	1	Pier 1 North	R	60F, cloudy	No disturbance noted	Sand Placement
13-Jan	1520	Nick Kennedy	DCCO	5	Pier 4 South	R	55F, cloudy	No disturbance noted	Sand Placement
14-Jan	0830	Nick Kennedy	DCCO	5	Pier 4 South	R	55F, cloudy	No disturbance noted	Sand Placement
14-Jan	0830	Nick Kennedy	BRPE	2	Pier 4 South	R	55F, cloudy	No disturbance noted	Sand Placement
14-Jan	1030	Nick Kennedy	DCCO	6	Pier 4 South	R	55F, cloudy	No disturbance noted	Sand Placement
14-Jan	1030	Nick Kennedy	BRPE	1	Pier 4 South	R	55F, cloudy	No disturbance noted	Sand Placement

15-Jan	0825	Nick Kennedy	DCCO	2	Pier 1 South	S	57F, cloudy	No disturbance noted	Sand Load Out
15-Jan	0950	Nick Kennedy	BRPE	1	Pier 1 North	F	55F, cloudy	No disturbance noted	Sand Load Out
15-Jan	0950	Nick Kennedy	BRPE	1	Pier 1 North	F	60F, cloudy	No disturbance noted	Sand Load Out
19-Jan	1000	Nick Kennedy	DCCO	1	Pier 1 North	R	55F, cloudy	No disturbance noted	Sand Placement
20-Jan	1000	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance noted	Sand Placement
27-Jan	0920	Nick Kennedy	DCCO	2	Pier 1 North	R	55F, sunny	No disturbance noted	SMA Demobilization
28-Jan	1330	Nick Kennedy	DCCO	1	Pier 1 North	R	60F, cloudy	No disturbance noted	SMA Demobilization

Notes:

1. BRPE = brown pelican; DCCO = double-crested cormorant; ELTE = elegant tern; BLSK = black skimmer; BRAN = brant, LETE = California least tern
MM - marine mammal (describe species in comments); GT = green sea turtle
2. Location: area within project site
3. Behavior: F = foraging; R = resting; FL = flying; S = swimming; B = courting or nesting; O = other (describe)
4. Comments: avoidance behavior or reaction to construction, communication with construction team, action taken (work halted and why)

Other

M&A biologist, Brandon Stidum, performed site walks on January 4, 13, 22, and 27, 2016. Work observed during these visits included gravelly sand placement in Pier 1 South and Pier 4 South, under pier sand placement below Pier 1, and sediment offloading from the Sediment Management Area.

The next monitoring report will cover the period February 1 - 29, 2016.

If you have any further questions, please contact me.

Sincerely,



Holly Henderson
Senior Biologist

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