United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 6/19/2014

Subject: **Analytical Testing Results - Project R14N02**
SDG: 14141A

From: **Duane James, Acting Director**
EPA Region 9 Laboratory
MTS-2

To: **Eugene E. Bromley**
NPDES Permits Office
WTR-5

Attached are the results from the analysis of samples from the **Southern California Oil Platforms Spring 2014** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Amy Wagner, the Lab Project Manager at (510)412-2300.

Electronic CC: Dave Panzer, david.panzer@mms.gov
Susan Zaleski, susan.zaleski@boem.gov
James Salmons, james.salmons@bsee.gov

Analyses included in this report:

Volatile Organic Compounds by GC/MS	Volatile Organic Compounds by GC/MS

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Eugene E. Bromley	**NPDES Permits Office**	**SDG:** 14141A
Project Number: R14N02	**75 Hawthorne Street**	**Reported:** 06/19/14 11:22
Project: Southern California Oil Platforms Spring 2014	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Hogan	1405029-01	Water	05/20/14 07:45	05/21/14 10:15

SDG ID 14141A

Work Order(s)

1405029

Requested analyses were for abalone development toxicity tests using *Haliotis rufescens* (red abalone) following Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA/600/R-95/136 and USEPA Region 9 Laboratory SOP #1004, RED ABALONE (*Haliotis rufescens*) LARVAL DEVELOPMENT TOXICITY TEST, was followed for the toxicity tests. A concurrent reference toxicity test was conducted for quality control as specified in the method. Statistical analyses were conducted using the CETIS statistical database program, version 1.022, and the Test of Significant Toxicity, version 1.8.

The test concentrations were based on the oil platform NPDES general permit requirements using the Test of Significant Toxicity (TST) approach described in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010). The chronic WET permit limit that must be met is rejection of the null hypothesis (Ho). The Platform Hogan result rejected the null hypothesis and is reported as Pass.

All QA/QC criteria were met.

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1405029-01									**Water - Sampled: 05/20/14 07:45**
Sample ID: Hogan									**Volatile Organic Compounds by EPA Method 524.2**
Benzene		840		50	ug/L	B14E079	05/21/14	05/21/14	524.2/SOP354
Surrogate: Toluene-d8			99 %	*85-114%*		"	"	"	

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs										**Prepared & Analyzed: 05/21/14**
										Volatile Organic Compounds by EPA Method 524.2 - Quality Control
Blank (B14E079-BLK1)										
Benzene	ND	U	0.5	ug/L						
Surrogate: Toluene-d8	*4.98*			"	*5.00*		100	*85-114*		
LCS (B14E079-BS1)										
Dichlorodifluoromethane	5.37		0.5	ug/L	5.00		107	53-153		200
Chloromethane	4.92		0.5	"	5.00		98	70-124		200
Vinyl chloride	5.23		0.5	"	5.00		105	70-130		200
Bromomethane	5.13		0.5	"	5.00		103	58-172		200
Chloroethane	5.17		0.5	"	5.00		103	75-135		200
Trichlorofluoromethane	5.54		0.5	"	5.00		111	74-141		200
1,1-Dichloroethene	5.36		0.5	"	5.00		107	70-130		200
1,1,2-Trichloro-1,2,2-trifluoroethane	5.76		0.5	"	5.00		115	73-139		200
Acetone	84.3		4	"	40.0		**211**	60-125		200
Dichloromethane	4.62		0.5	"	5.00		92	70-130		200
trans-1,2-Dichloroethene	5.1		0.5	"	5.00		102	70-130		200
tert-Butyl methyl ether (MTBE)	18.2		2	"	20.0		91	74-127		200
1,1-Dichloroethane	4.96		0.5	"	5.00		99	85-117		200
2,2-Dichloropropane	6.35		0.5	"	5.00		127	61-163		200
cis-1,2-Dichloroethene	4.9		0.5	"	5.00		98	87-113		200
2-Butanone (MEK)	35.3		4	"	40.0		88	67-123		200
Bromochloromethane	4.82		0.5	"	5.00		96	84-114		200
Chloroform	4.98		0.5	"	5.00		100	70-130		200
1,1,1-Trichloroethane	5.01		0.5	"	5.00		100	70-130		200
Carbon tetrachloride	5.32		0.5	"	5.00		106	70-130		200
1,1-Dichloropropene	4.85		0.5	"	5.00		97	88-120		200
Benzene	4.67		0.5	"	5.00		93	70-130		200
1,2-Dichloroethane	4.28		0.5	"	5.00		86	70-130		200
Trichloroethene	4.79		0.5	"	5.00		96	70-130		200
1,2-Dichloropropane	4.42		0.5	"	5.00		88	70-130		200
Dibromomethane	4.38		0.5	"	5.00		88	79-118		200
Bromodichloromethane	4.59		0.5	"	5.00		92	70-130		200
cis-1,3-Dichloropropene	4.66		0.5	"	5.00		93	79-127		200
Toluene	4.89		0.5	"	5.00		98	70-130		200
trans-1,3-Dichloropropene	5.03		0.5	"	5.00		101	75-135		200
1,1,2-Trichloroethane	4.35		0.5	"	5.00		87	70-130		200
Tetrachloroethene	5.19		0.5	"	5.00		104	70-130		200
1,3-Dichloropropane	4.48		0.5	"	5.00		90	82-116		200
Chlorodibromomethane	4.8		0.5	"	5.00		96	70-130		200
1,2-Dibromoethane (EDB)	4.52		0.5	"	5.00		90	85-114		200
Chlorobenzene	4.77		0.5	"	5.00		95	70-130		200
1,1,1,2-Tetrachloroethane	4.91		0.5	"	5.00		98	86-122		200

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Project Number: R14N02	**75 Hawthorne Street**	**Reported:** 06/19/14 11:22
Project: Southern California Oil Platforms Spring 2014	**San Francisco CA, 94105**	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs										**Prepared & Analyzed: 05/21/14**
										Volatile Organic Compounds by EPA Method 524.2 - Quality Control
LCS (B14E079-BS1)										
Ethylbenzene	5		0.5	"	5.00		100	70-130		200
m&p-Xylene	9.92		1	"	10.0		99	70-130		200
o-Xylene	4.85		0.5	"	5.00		97	70-130		200
Styrene	4.79		0.5	"	5.00		96	70-130		200
Bromoform	4.93		0.5	"	5.00		99	70-130		200
Isopropylbenzene	5.12		0.5	"	5.00		102	90-118		200
Bromobenzene	4.67		0.5	"	5.00		93	90-110		200
1,1,2,2-Tetrachloroethane	4.36		0.5	"	5.00		87	76-122		200
1,2,3-Trichloropropane	4.39		0.5	"	5.00		88	77-119		200
Propylbenzene	5.15		0.5	"	5.00		103	89-120		200
2-Chlorotoluene	4.85		0.5	"	5.00		97	88-114		200
4-Chlorotoluene	4.85		0.5	"	5.00		97	90-112		200
1,3,5-Trimethylbenzene	5.03		0.5	"	5.00		101	90-115		200
tert-Butylbenzene	5.08		0.5	"	5.00		102	89-118		200
1,2,4-Trimethylbenzene	4.93		0.5	"	5.00		99	90-112		200
sec-Butylbenzene	5.18		0.5	"	5.00		104	87-122		200
1,3-Dichlorobenzene	4.71		0.5	"	5.00		94	88-111		200
p-Isopropyltoluene	5.21		0.5	"	5.00		104	89-119		200
1,4-Dichlorobenzene	4.75		0.5	"	5.00		95	70-130		200
1,2-Dichlorobenzene	4.62		0.5	"	5.00		92	70-130		200
Butylbenzene	5.2		0.5	"	5.00		104	86-123		200
1,2-Dibromo-3-chloropropane	18.8		2	"	20.0		94	68-134		200
1,2,4-Trichlorobenzene	4.71		0.5	"	5.00		94	70-130		200
Hexachlorobutadiene	5.14		0.5	"	5.00		103	81-123		200
Naphthalene	5		0.5	"	5.00		100	54-144		200
1,2,3-Trichlorobenzene	4.67		0.5	"	5.00		93	73-122		200
Surrogate: 1,2-Dichloroethane-d4	*4.43*			"	*5.00*		89	*65-149*		
Surrogate: Toluene-d8	*5.16*			"	*5.00*		103	*85-114*		
Surrogate: 4-Bromofluorobenzene	*4.86*			"	*5.00*		97	*82-111*		
Surrogate: 1,2-Dichlorobenzene-d4	*4.86*			"	*5.00*		97	*76-118*		
Matrix Spike (B14E079-MS1)		**Source: 1405029-01**								
Dichlorodifluoromethane	671		50	ug/L	500	ND	134	53-153		20
Chloromethane	518		50	"	500	ND	104	70-124		20
Vinyl chloride	584		50	"	500	ND	117	77-127		20
Bromomethane	530		50	"	500	ND	106	58-172		20
Chloroethane	540		50	"	500	ND	108	75-135		20
Trichlorofluoromethane	680		50	"	500	ND	136	74-141		20
1,1-Dichloroethene	604		50	"	500	ND	121	80-126		20
1,1,2-Trichloro-1,2,2-trifluoroethane	722		50	"	500	ND	**144**	73-139		20
Acetone	7,120		400	"	4000	928	**155**	60-125		20

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs										**Prepared & Analyzed: 05/21/14**
										Volatile Organic Compounds by EPA Method 524.2 - Quality Control
Matrix Spike (B14E079-MS1)		**Source: 1405029-01**								
Dichloromethane	489		50	"	500	ND	98	73-114		20
trans-1,2-Dichloroethene	548		50	"	500	ND	110	86-119		20
tert-Butyl methyl ether (MTBE)	2,010		200	"	2000	ND	100	74-127		20
1,1-Dichloroethane	532		50	"	500	ND	106	85-117		20
2,2-Dichloropropane	608		50	"	500	ND	122	61-163		20
cis-1,2-Dichloroethene	521		50	"	500	ND	104	87-113		20
2-Butanone (MEK)	5,150		400	"	4000	ND	**129**	67-123		20
Bromochloromethane	508		50	"	500	ND	102	84-114		20
Chloroform	524		50	"	500	ND	105	85-117		20
1,1,1-Trichloroethane	558		50	"	500	ND	112	85-126		20
Carbon tetrachloride	604		50	"	500	ND	121	77-140		20
1,1-Dichloropropene	561		50	"	500	ND	112	88-120		20
Benzene	1,340		50	"	500	835	100	86-112		20
1,2-Dichloroethane	520		50	"	500	38	96	78-121		20
Trichloroethene	526		50	"	500	ND	105	90-112		20
1,2-Dichloropropane	490		50	"	500	ND	98	83-114		20
Dibromomethane	484		50	"	500	ND	97	79-118		20
Bromodichloromethane	499		50	"	500	ND	100	82-120		20
cis-1,3-Dichloropropene	509		50	"	500	ND	102	79-127		20
Toluene	1,800		50	"	500	1,290	102	87-113		20
trans-1,3-Dichloropropene	520		50	"	500	ND	104	75-135		20
1,1,2-Trichloroethane	490		50	"	500	ND	98	79-116		20
Tetrachloroethene	549		50	"	500	ND	110	87-118		20
1,3-Dichloropropane	484		50	"	500	ND	97	82-116		20
Chlorodibromomethane	511		50	"	500	ND	102	80-125		20
1,2-Dibromoethane (EDB)	495		50	"	500	ND	99	85-114		20
Chlorobenzene	501		50	"	500	ND	100	88-110		20
1,1,1,2-Tetrachloroethane	519		50	"	500	ND	104	86-122		20
Ethylbenzene	713		50	"	500	180	107	89-117		20
m&p-Xylene	1,490		100	"	1000	437	105	90-113		20
o-Xylene	812		50	"	500	295	103	90-111		20
Styrene	522		50	"	500	ND	104	86-113		20
Bromoform	530		50	"	500	ND	106	70-138		20
Isopropylbenzene	559		50	"	500	ND	112	90-118		20
Bromobenzene	494		50	"	500	ND	99	90-110		20
1,1,2,2-Tetrachloroethane	493		50	"	500	ND	99	76-122		20
1,2,3-Trichloropropane	486		50	"	500	ND	97	77-119		20
Propylbenzene	566		50	"	500	ND	113	89-120		20
2-Chlorotoluene	522		50	"	500	ND	104	88-114		20
4-Chlorotoluene	512		50	"	500	ND	102	90-112		20
1,3,5-Trimethylbenzene	548		50	"	500	ND	110	90-115		20
tert-Butylbenzene	542		50	"	500	ND	108	89-118		20

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SDG: 14141A
Reported: 06/19/14 11:22

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs										**Prepared & Analyzed: 05/21/14**
								Volatile Organic Compounds by EPA Method 524.2 - Quality Control		
Matrix Spike (B14E079-MS1)		**Source: 1405029-01**								
1,2,4-Trimethylbenzene	637		50	"	500	116	104	90-112		20
sec-Butylbenzene	562		50	"	500	ND	112	87-122		20
1,3-Dichlorobenzene	498		50	"	500	ND	100	88-111		20
p-Isopropyltoluene	549		50	"	500	ND	110	89-119		20
1,4-Dichlorobenzene	498		50	"	500	ND	100	87-111		20
1,2-Dichlorobenzene	494		50	"	500	ND	99	86-111		20
Butylbenzene	559		50	"	500	ND	112	86-123		20
1,2-Dibromo-3-chloropropane	2,000		200	"	2000	ND	100	68-134		20
1,2,4-Trichlorobenzene	508		50	"	500	ND	102	77-119		20
Hexachlorobutadiene	546		50	"	500	ND	109	81-123		20
Naphthalene	627		50	"	500	55.5	114	54-144		20
1,2,3-Trichlorobenzene	510		50	"	500	ND	102	73-122		20
Surrogate: 1,2-Dichloroethane-d4	*4.91*			"	*5.00*		98	*65-149*		
Surrogate: Toluene-d8	*4.97*			"	*5.00*		99	*85-114*		
Surrogate: 4-Bromofluorobenzene	*4.96*			"	*5.00*		99	*82-111*		
Surrogate: 1,2-Dichlorobenzene-d4	*5.04*			"	*5.00*		101	*76-118*		
Matrix Spike Dup (B14E079-MSD1)		**Source: 1405029-01**								
Dichlorodifluoromethane	651		50	ug/L	500	ND	130	53-153	3	20
Chloromethane	499		50	"	500	ND	100	70-124	4	20
Vinyl chloride	568		50	"	500	ND	114	77-127	3	20
Bromomethane	523		50	"	500	ND	105	58-172	1	20
Chloroethane	534		50	"	500	ND	107	75-135	1	20
Trichlorofluoromethane	656		50	"	500	ND	131	74-141	4	20
1,1-Dichloroethene	595		50	"	500	ND	119	80-126	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	693		50	"	500	ND	139	73-139	4	20
Acetone	6,950		400	"	4000	928	**150**	60-125	2	20
Dichloromethane	474		50	"	500	ND	95	73-114	3	20
trans-1,2-Dichloroethene	528		50	"	500	ND	106	86-119	4	20
tert-Butyl methyl ether (MTBE)	1,950		200	"	2000	ND	98	74-127	3	20
1,1-Dichloroethane	511		50	"	500	ND	102	85-117	4	20
2,2-Dichloropropane	577		50	"	500	ND	115	61-163	5	20
cis-1,2-Dichloroethene	503		50	"	500	ND	101	87-113	3	20
2-Butanone (MEK)	4,880		400	"	4000	ND	122	67-123	6	20
Bromochloromethane	505		50	"	500	ND	101	84-114	0.7	20
Chloroform	505		50	"	500	ND	101	85-117	4	20
1,1,1-Trichloroethane	539		50	"	500	ND	108	85-126	3	20
Carbon tetrachloride	597		50	"	500	ND	119	77-140	1	20
1,1-Dichloropropene	544		50	"	500	ND	109	88-120	3	20
Benzene	1,300		50	"	500	835	93	86-112	3	20
1,2-Dichloroethane	516		50	"	500	38	96	78-121	0.8	20

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs									**Prepared & Analyzed: 05/21/14**	
						Volatile Organic Compounds by EPA Method 524.2 - Quality Control				
Matrix Spike Dup (B14E079-MSD1)		**Source: 1405029-01**								
Trichloroethene	510		50	"	500	ND	102	90-112	3	20
1,2-Dichloropropane	484		50	"	500	ND	97	83-114	1	20
Dibromomethane	477		50	"	500	ND	95	79-118	1	20
Bromodichloromethane	494		50	"	500	ND	99	82-120	0.9	20
cis-1,3-Dichloropropene	494		50	"	500	ND	99	79-127	3	20
Toluene	1,760		50	"	500	1,290	94	87-113	2	20
trans-1,3-Dichloropropene	505		50	"	500	ND	101	75-135	3	20
1,1,2-Trichloroethane	491		50	"	500	ND	98	79-116	0.2	20
Tetrachloroethene	544		50	"	500	ND	109	87-118	1	20
1,3-Dichloropropane	482		50	"	500	ND	96	82-116	0.5	20
Chlorodibromomethane	506		50	"	500	ND	101	80-125	0.9	20
1,2-Dibromoethane (EDB)	496		50	"	500	ND	99	85-114	0.2	20
Chlorobenzene	495		50	"	500	ND	99	88-110	1	20
1,1,1,2-Tetrachloroethane	505		50	"	500	ND	101	86-122	3	20
Ethylbenzene	694		50	"	500	180	103	89-117	3	20
m&p-Xylene	1,450		100	"	1000	437	102	90-113	2	20
o-Xylene	799		50	"	500	295	101	90-111	2	20
Styrene	515		50	"	500	ND	103	86-113	1	20
Bromoform	529		50	"	500	ND	106	70-138	0.1	20
Isopropylbenzene	550		50	"	500	ND	110	90-118	2	20
Bromobenzene	493		50	"	500	ND	99	90-110	0.2	20
1,1,2,2-Tetrachloroethane	489		50	"	500	ND	98	76-122	0.8	20
1,2,3-Trichloropropane	480		50	"	500	ND	96	77-119	1	20
Propylbenzene	554		50	"	500	ND	111	89-120	2	20
2-Chlorotoluene	516		50	"	500	ND	103	88-114	1	20
4-Chlorotoluene	502		50	"	500	ND	100	90-112	2	20
1,3,5-Trimethylbenzene	538		50	"	500	ND	108	90-115	2	20
tert-Butylbenzene	532		50	"	500	ND	106	89-118	2	20
1,2,4-Trimethylbenzene	626		50	"	500	116	102	90-112	2	20
sec-Butylbenzene	553		50	"	500	ND	111	87-122	2	20
1,3-Dichlorobenzene	493		50	"	500	ND	99	88-111	1	20
p-Isopropyltoluene	544		50	"	500	ND	109	89-119	1	20
1,4-Dichlorobenzene	493		50	"	500	ND	99	87-111	1	20
1,2-Dichlorobenzene	487		50	"	500	ND	97	86-111	2	20
Butylbenzene	550		50	"	500	ND	110	86-123	2	20
1,2-Dibromo-3-chloropropane	2,020		200	"	2000	ND	101	68-134	0.9	20
1,2,4-Trichlorobenzene	507		50	"	500	ND	101	77-119	0.2	20
Hexachlorobutadiene	534		50	"	500	ND	107	81-123	2	20
Naphthalene	641		50	"	500	55.5	117	54-144	2	20
1,2,3-Trichlorobenzene	510		50	"	500	ND	102	73-122	0.02	20

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Project Number: R14N02	**75 Hawthorne Street**	**Reported:** 06/19/14 11:22
Project: Southern California Oil Platforms Spring 2014	**San Francisco CA, 94105**	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B14E079 - 5030 P&T VOA - VOCs										**Prepared & Analyzed: 05/21/14**
								Volatile Organic Compounds by EPA Method 524.2 - Quality Control		
Matrix Spike Dup (B14E079-MSD1)		**Source: 1405029-01**								
Surrogate: 1,2-Dichloroethane-d4	*4.85*			"	*5.00*		97	*65-149*		
Surrogate: Toluene-d8	*4.97*			"	*5.00*		99	*85-114*		
Surrogate: 4-Bromofluorobenzene	*4.94*			"	*5.00*		99	*82-111*		
Surrogate: 1,2-Dichlorobenzene-d4	*5.11*			"	*5.00*		102	*76-118*		

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Qualifiers and Comments

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.