

March 25, 2016

Analytical Report

Client: **Suisun Bay Reserve Fleet**
2595 Lake Herman Rd
Benicia, CA 94510

Attn: **Eric Lawlor**

Work Order #: 1603019

Project: SBRF SWPPP Non-Retention 030416

Project #: MAPR617-5160006

P.O. Number: DTMA94P1600008

Project Received: March 4, 2016 16:40

Project Reported: March 25, 2016 9:23

Sincerely,

Hossein Khoshkhoo

H. Khoshkhoo, Ph.D.
Laboratory Director / President

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Case Narrative**

The chromatograms of the samples do not match the pattern of standard TPH- Diesel Chromatogram. The reported data represent the concentration of Diesel Range Organic Compounds. (DRO).

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Summary**

Lab ID	Sample	Matrix	Date Sampled	Date Received
1603019-01	Cape Blanco	Aqueous	March 4, 2016 12:00	March 4, 2016 16:40
1603019-02	Cape Berton	Aqueous	March 4, 2016 12:00	March 4, 2016 16:40
1603019-03	Cape Borda	Aqueous	March 4, 2016 12:10	March 4, 2016 16:40
1603019-02	Parking Lot	Aqueous	March 4, 2016 12:10	March 4, 2016 16:40

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results****Sample:** Cape Blanco**1603019-01 (Aqueous)****Sample Type:** Grab**Sample Date:** March 4, 2016 12:00**Prep Date:** March 9, 2016 9:42

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Petroleum Hydrocarbons by EPA 8015B/8015 M									
TPH-Diesel	0.0300	0.0500		0.141	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM
TPH-Motor Oil	0.0300	0.100		ND	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Blanco (Continued)
1603019-01 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:00
Prep Date: March 11, 2016 10:54

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
PCBs by EPA 8082									
PCB 1016	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1221	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1232	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1242	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1248	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1254	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1260	0.3	0.6		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
Surrogate: Decachlorobiphenyl		60-130		95.2%			3/14/16	EPA 8082	16C0089/ZT

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Blanco (Continued)
1603019-01 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:00**Prep Date:** March 7, 2016 9:44

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry									
Conductivity	0.100	1.00		225	umhos/cm	1	3/7/16	SM 2510 B	16C0040/AM
Oil & Grease	0.900	5.00		ND	mg/L	1	3/11/16	EPA 1664	16C0048/AM
pH				3.08	pH Units	1	3/4/16	SM 4500 H+ B	16C0039/AM
Total Suspended Solids	0.800	5.00		ND	mg/L	1	3/7/16	SM 2540 D	16C0024/AM

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Breton**1603019-02 (Aqueous)****Sample Type:** Grab**Sample Date:** March 4, 2016 12:10**Prep Date:** March 9, 2016 9:42

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Petroleum Hydrocarbons by EPA 8015B/8015 M									
TPH-Diesel	0.0300	0.0500		0.0943	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM
TPH-Motor Oil	0.0300	0.100		ND	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Breton (Continued)
1603019-02 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:10
Prep Date: March 11, 2016 10:54

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
PCBs by EPA 8082									
PCB 1016	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1221	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1232	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1242	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1248	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1254	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1260	0.2	0.5		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
Surrogate: Decachlorobiphenyl		60-130		102%			3/14/16	EPA 8082	16C0089/ZT

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Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Breton (Continued)
1603019-02 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:10**Prep Date:** March 7, 2016 9:44

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry									
Conductivity	0.100	1.00		26.1	umhos/cm	1	3/7/16	SM 2510 B	16C0040/AM
Oil & Grease	0.900	5.00		ND	mg/L	1	3/11/16	EPA 1664	16C0048/AM
pH				5.36	pH Units	1	3/4/16	SM 4500 H+ B	16C0039/AM
Total Suspended Solids	0.800	5.00		7.40	mg/L	1	3/7/16	SM 2540 D	16C0024/AM

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
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(Continued)

Sample: Cape Borda**1603019-03 (Aqueous)****Sample Type:** Grab**Sample Date:** March 4, 2016 12:20**Prep Date:** March 9, 2016 9:42

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Petroleum Hydrocarbons by EPA 8015B/8015 M									
TPH-Diesel	0.0300	0.0500		0.147	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM
TPH-Motor Oil	0.0300	0.100		0.133	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM

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Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Cape Borda (Continued)
1603019-03 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:20
Prep Date: March 11, 2016 10:54

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
PCBs by EPA 8082									
PCB 1016	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1221	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1232	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1242	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1248	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1254	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1260	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
Surrogate: Decachlorobiphenyl		60-130		87.2%			3/14/16	EPA 8082	16C0089/ZT

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(Continued)

Sample: Cape Borda (Continued)
1603019-03 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:20**Prep Date:** March 7, 2016 9:44

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry									
Conductivity	0.100	1.00		21.9	umhos/cm	1	3/7/16	SM 2510 B	16C0040/AM
Oil & Grease	0.900	5.00		ND	mg/L	1	3/11/16	EPA 1664	16C0048/AM
pH				5.35	pH Units	1	3/4/16	SM 4500 H+ B	16C0039/AM
Total Suspended Solids	0.800	5.00		99.3	mg/L	1	3/7/16	SM 2540 D	16C0024/AM

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(Continued)

Sample: Parking Lot**1603019-04 (Aqueous)****Sample Type:** Grab**Sample Date:** March 4, 2016 12:15**Prep Date:** March 9, 2016 9:42

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Petroleum Hydrocarbons by EPA 8015B/8015 M									
TPH-Diesel	0.0300	0.0500		0.0789	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM
TPH-Motor Oil	0.0300	0.100		ND	mg/L	1	3/9/16	EPA 8015 M	16C0030/AM

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Parking Lot (Continued)
1603019-04 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:15
Prep Date: March 11, 2016 10:54

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
PCBs by EPA 8082									
PCB 1016	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1221	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1232	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1242	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1248	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1254	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
PCB 1260	0.2	0.4		ND	ug/L	1	3/14/16	EPA 8082	16C0089/ZT
Surrogate: Decachlorobiphenyl		60-130		103%			3/14/16	EPA 8082	16C0089/ZT

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample: Parking Lot (Continued)
1603019-04 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:15**Prep Date:** March 7, 2016 9:44

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry									
Conductivity	0.100	1.00		11000	umhos/cm	1	3/7/16	SM 2510 B	16C0040/AM
Oil & Grease	0.900	5.00		ND	mg/L	1	3/11/16	EPA 1664	16C0048/AM
pH				7.67	pH Units	1	3/4/16	SM 4500 H+ B	16C0039/AM
Total Suspended Solids	0.800	5.00		71.7	mg/L	1	3/7/16	SM 2540 D	16C0024/AM

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Sample Results**Data Analyzed by:** MAI**Sample:** Cape Blanco
1603019-01 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:00**Prep Date:** March 10, 2016 0:00

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
CAM17									
Mercury	0.12	0.5		4.3	ng/L	1	3/11/16	E1631E	117873/BB
Antimony	0.061	0.5		2.3	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Arsenic	0.19	0.5		ND	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Barium	1.1	5		62	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Beryllium	0.051	0.5		ND	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Cadmium	0.04	0.25		0.29	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Chromium	0.14	0.5	J	0.28	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Cobalt	0.048	0.5		0.7	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Copper	0.1	2		25	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Lead	0.078	0.5		1.9	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Molybdenum	0.26	0.5	J	0.38	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Nickel	0.18	0.5		2.2	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Selenium	0.15	0.5	J	0.3	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Silver	0.025	0.19		ND	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Thallium	0.026	0.5		ND	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Vanadium	0.059	0.5		0.65	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Zinc	5	15		470	µg/L	1	3/9/16	CAM17MS_6020 _TTLC_W	117706/DH
Surrogate: Terbium		70-130		100%			3/9/16	CAM17MS_6020 _TTLC_W	117706/DH

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Data Analyzed by: MAI

Sample: Cape Breton**1603019-02 (Aqueous)****Sample Type:** Grab**Sample Date:** March 4, 2016 12:10**Prep Date:** March 10, 2016 0:00

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
CAM17									
Mercury	0.12	0.5		4.2	ng/L	1	3/11/16	E1631E	117873/BB
Antimony	0.061	0.5		0.53	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Arsenic	0.19	0.5		2.3	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Barium	1.1	5		210	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Beryllium	0.051	0.5		ND	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Cadmium	0.04	0.25		0.32	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Chromium	0.14	0.5		0.91	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Cobalt	0.048	0.5		0.75	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Copper	0.1	2		27	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Lead	0.078	0.5		8.7	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Molybdenum	0.26	0.5		0.54	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Nickel	0.18	0.5		3	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Selenium	0.15	0.5		0.54	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Silver	0.025	0.19	J	0.13	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Thallium	0.026	0.5		ND	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Vanadium	0.059	0.5		0.75	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Zinc	5	15		1100	µg/L	1	3/10/16	CAM17MS_6020_TTLC_W	117762/BB
Surrogate: Terbium		70-130		107%			3/10/16	CAM17MS_6020_TTLC_W	117762/BB

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet

2595 Lake Herman Rd
Benicia, CA 94510

Project: SBRF SWPPP Non-Retention 030416

PO Number: DTMA94P1600008

Project Manager: Eric Lawlor

Project #:MAPR617-5160006

Sample Results

(Continued)

Data Analyzed by: MAI

Sample: Cape Borda

1603019-03 (Aqueous)

Sample Type: Grab

Sample Date: March 4, 2016 12:20

Prep Date: March 10, 2016 0:00

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
CAM17									
Mercury	1.2	5		23	ng/L	10	3/11/16	E1631E	117873/BB
Antimony	0.061	0.5		1.4	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Arsenic	0.19	0.5		8.7	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Barium	1.1	5		910	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Beryllium	0.051	0.5		ND	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Cadmium	0.04	0.25		0.67	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Chromium	0.14	0.5		2.8	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Cobalt	0.048	0.5		0.6	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Copper	0.1	2		100	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Lead	0.078	0.5		37	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Molybdenum	0.26	0.5		0.96	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Nickel	0.18	0.5		4	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Selenium	0.15	0.5	J	0.37	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Silver	0.025	0.19		0.67	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Thallium	0.026	0.5		ND	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Vanadium	0.059	0.5		2.9	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Zinc	5	15		1600	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Surrogate: Terbium		70-130		98%			3/11/16	CAM17MS_6020_TTLC_W	117859/DH

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Sample Results**

(Continued)

Data Analyzed by: MAI

Sample: Parking Lot
1603019-04 (Aqueous)**Sample Type:** Grab**Sample Date:** March 4, 2016 12:15**Prep Date:** March 10, 2016 0:00

Analyte	MDL	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
CAM17									
Mercury	1.2	5		16	ng/L	10	3/11/16	E1631E	117873/BB
Antimony	0.061	0.5		0.81	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Arsenic	0.19	0.5		8	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Barium	1.1	5		100	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Beryllium	0.051	0.5	J	0.061	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Cadmium	0.04	0.25	J	0.13	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Chromium	0.14	0.5		5.4	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Cobalt	0.048	0.5		1.8	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Copper	0.1	2		28	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Lead	0.078	0.5		3.7	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Molybdenum	0.26	0.5		1.2	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Nickel	0.18	0.5		4.9	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Selenium	0.15	0.5		0.52	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Silver	0.025	0.19	J	0.13	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Thallium	0.026	0.5	JB	0.064	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Vanadium	0.059	0.5		12	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Zinc	5	15		120	µg/L	1	3/11/16	CAM17MS_6020_TTLC_W	117859/DH
Surrogate: Terbiium		70-130		101%			3/11/16	CAM17MS_6020_TTLC_W	117859/DH

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Quality Control****Total Petroleum Hydrocarbons by EPA 8015B/8015 M****Prepared & Analyzed: Mar-09-16**

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 16C0030**Analyst: AM****Blank (16C0030-BLK1)**

TPH-Diesel	ND	0.0500	mg/L
TPH-Motor Oil	ND	0.100	mg/L

LCS (16C0030-BS1)

TPH-Diesel	0.985	0.0500	mg/L	1.00	98.5	80-120
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LCS Dup (16C0030-BSD1)

TPH-Diesel	1.08	0.0500	mg/L	1.00	108	80-120	9.57	20
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WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Quality Control**

(Continued)

PCBs by EPA 8082

Prepared: Mar-11-16 Analyzed: Mar-14-16

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 16C0089**Analyst: ZT****Blank (16C0089-BLK1)**

PCB 1016	ND	0.5	ug/L
PCB 1221	ND	0.5	ug/L
PCB 1232	ND	0.5	ug/L
PCB 1242	ND	0.5	ug/L
PCB 1248	ND	0.5	ug/L
PCB 1254	ND	0.5	ug/L
PCB 1260	ND	0.5	ug/L

Surrogate: Decachlorobiphenyl 0.419 ug/L 0.400 105 60-130

LCS (16C0089-BS1)

PCB 1260	3.8	0.5	ug/L	8.00	47.2	70-130
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Surrogate: Decachlorobiphenyl 0.323 ug/L 0.400 80.8 60-130

LCS Dup (16C0089-BSD1)

PCB 1260	3.8	0.5	ug/L	8.00	47.0	70-130	0.531	20
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Surrogate: Decachlorobiphenyl 0.329 ug/L 0.400 82.2 60-130

WORK ORDER: 1603019

COC Number:

Suisun Bay Reserve Fleet2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Quality Control**

(Continued)

Wet Chemistry

Prepared & Analyzed: Mar-07-16

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 16C0024**Analyst:** AM**Blank (16C0024-BLK1)**

Total Suspended Solids ND 5.00 mg/L

LCS (16C0024-BS1)

Total Suspended Solids 853 5.00 mg/L 1000 85.3 80-120

LCS Dup (16C0024-BSD1)

Total Suspended Solids 865 5.00 mg/L 1000 86.5 80-120 1.40 20

Batch: 16C0039**Analyst:** AM**LCS (16C0039-BS1)**

pH 7.00 pH Units 7.00 100 80-120

LCS Dup (16C0039-BSD1)

pH 6.98 pH Units 7.00 99.7 80-120 0.286 20

Batch: 16C0040**Analyst:** AM**LCS (16C0040-BS1)**

Conductivity 1370 1.00 umhos/cm 1410 96.7 80-120

LCS Dup (16C0040-BSD1)

Conductivity 1380 1.00 umhos/cm 1410 97.7 80-120 1.02 20

Batch: 16C0048**Analyst:** AM**Blank (16C0048-BLK1)**

Oil & Grease ND 5.00 mg/L

WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Quality Control**

(Continued)

Wet Chemistry (Continued)**Prepared & Analyzed: Mar-11-16**

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 16C0048 (Continued)**Analyst:** AM**LCS (16C0048-BS1)**

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
Oil & Grease		39.0		5.00	mg/L	40.0	97.5	80-120		

LCS Dup (16C0048-BSD1)

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
Oil & Grease		38.4		5.00	mg/L	40.0	96.0	80-120	1.55	20

Ref:	Q1603019_Metals	Method: EPA 6020	Analyzed:	3/9/2016
Client	SBRF	1631E for Hg	Matrix:	AQ
		Quality Control Report for Metal Analysis	Analyzed:	03/09/06
			Analyst:	MAI
Spiked Sample:	1603348-001E		Units:	ng/L for Hg
	1603409-001A for Hg			ug/L or others

Quality Control Results of Analysis for Metals

Analyte	Reporting Limit	Sample Results	Spike Added	Spike Recovery	Spike Dup. Recovery	MS Percent Recovery	MSD Percent Recovery	Relative Percent Difference	RPD Limit	%REC Limit
Antimony	0.5	0.44	50	57	56	114	112	1.51	20	70-130
Arsenic	0.5	0.9681	50	56	56	110	110	0	20	70-130
Barium	5	38.26	500	600	590	113	111	1.73	20	70-130
Beryllium	0.5	ND	50	56	55	112	111	1.54	20	70-130
Cadmium	0.25	ND	50	54	54	108	108	0	20	70-130
Chromium	0.5	0.5538	50	54	55	107	108	0.828	20	70-130
Cobalt	0.5	0.3178	50	50	49	100	98	2.33	20	70-130
Copper	2	1.786	50	55	56	106	108	1.95	20	70-130
Lead	0.5	ND	50	56	55	113	111	1.89	20	70-130
Molybdenum	0.5	2.27	50	57	56	110	108	1.62	20	70-130
Nickel	0.5	1.71	50	54	54	105	105	0	20	70-130
Selenium	0.5	1.186	50	57	56	111	110	1.44	20	70-130
Silver	0.19	ND	50	54	53	108	107	1.3	20	70-130
Terbium		ND	750	103	102	103	102	1.35	20	70-130
Thallium	0.5	ND	50	53	52	105	104	1.16	20	70-130
Vanadium	0.5	6.285	50	61	62	110	111	0.228	20	70-130
Zinc	15	ND	500	530	530	105	106	1.19	20	70-130
Mercury	5	9.5	50	47	49	76	78	2.24	20	80-120

ND: Not Detected, LCS: Laboratory Control Sample, LCSD: Laboratory Control Sample Duplicate

MS: Matrix Spiked

MSd : Matrix Spike Duplicate



 H. Khoshkhoo, PhD.,
 Laboratory Director/President

Ref: Q1603019_LCS metals
 Client: SBRF

 Method: EPA 6020
 Hg 1631 E

 Analyzed: 3/9/2016
 Matrix: AQ
 Analyzed: 03/09/06
 Analyst: MAI
 Unit: ng/L for Hg
 ug/L for others

Quality Control Report for Metal Analysis

Spiked Sample: Blank

Quality Control Results of Analysis for Metals

Analyte	Reporting Limit	Sample Results	Spike Added	Spike Recovery	Spike Dup. Recovery	LCS Percent Recovery	LCS D Percent Recovery	Relative Percent Difference	RPD Limit	% Rec Limit
Antimony	0.5	ND	50	51	-	102	-	-	20	70-130
Arsenic	0.5	ND	50	50	-	100	-	-	20	70-130
Barium	5	ND	500	510	-	102	-	-	20	70-130
Beryllium	0.5	ND	50	50	-	101	-	-	20	70-130
Cadmium	0.25	ND	50	50	-	100	-	-	20	70-130
Chromium	0.5	ND	50	50	-	101	-	-	20	70-130
Cobalt	0.5	ND	50	48	-	97	-	-	20	70-130
Copper	2	ND	50	51	-	101	-	-	20	70-130
Lead	0.5	ND	50	50	-	101	-	-	20	70-130
Molybdenum	0.5	ND	50	48	-	96	-	-	20	70-130
Nickel	0.5	ND	50	50	-	101	-	-	20	70-130
Selenium	0.5	ND	50	51	-	103	-	-	20	70-130
Silver	0.19	ND	50	51	-	102	-	-	20	70-130
Terbium		ND	750	94	-	94	-	-	20	70-130
Thallium	0.5	ND	50	47	-	94	-	-	20	70-130
Vanadium	0.5	ND	50	50	-	99	-	-	20	70-130
Zinc	15	ND	500	500	-	100	-	-	20	70-130
Mercury	0.5	ND	2.5	2.6		104			20	80-120

ND: Not Detected, LCS: Laboratory Control Sample, LCSD: Laboratory Control Sample Duplicate

MS: Matrix Spiked

MSD : Matrix Spike Duplicate



WORK ORDER: 1603019**COC Number:****Suisun Bay Reserve Fleet**2595 Lake Herman Rd
Benicia, CA 94510**Project:** SBRF SWPPP Non-Retention 030416**PO Number:** DTMA94P1600008**Project Manager:** Eric Lawlor**Project #:** MAPR617-5160006**Notes and Definitions**

Item	Definition
J	Result is less than the RL but greater than the MDL. The reported concentration is an estimated value.
JB	J: Result is less than the RL but greater than the MDL. The reported concentration is an estimated value. B: Analyte detected in the associated Method Blank and in the sample
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
%REC	Percent Recovery
DF	Dilution Factor
LCS	Lab Control Sample
LCSD	Lab Control Sample Duplicate
MDL	Minimum Detection Limit
MRL	Minimum Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated
J	Results > MDL but < MRL

ERATIVI Project Name: ELINOOR2

* PRESERVATIVE: 1=HNO₃; 2=HCl; 3=H₂SO₄; 4=Na₂S₂O₃; 5=NaOH; 6=NH₄Cl;
7=ZnAc₂