



**United States Environmental Protection Agency
Region 9 Laboratory**

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

Date: 4/3/2018

Subject: Analytical Testing Results - Project R18U01
SDG: 18073B

From: Peter Husby, Director
EPA Region 9 Laboratory
EMD-3-1

To: Lyndsey Tu
Underground Storage Tanks Program Office
LND-4-3

Attached are the results from the analysis of samples from the **Red Hill Tank Farm October 2017 Split Sampling** 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 Richard Bauer, the Lab Project Manager at (510)412-2300.

Electronic CC: Bob Pallarino, UST Section
Roxanne Kwan, Hawaii DOH

Analyses included in this report:

PAHs by GC/MS SIM

Extractable Petroleum Hydrocarbons by
GC/FID

Extractable Petroleum Hydrocarbons (w/silica
gel)



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: Lyndsey Tu

Project Number: R18U01

Project: Red Hill Tank Farm October 2017 Split
Sampling

Underground Storage Tanks Program Office

75 Hawthorne Street
San Francisco CA, 94105

SDG: 18073B

Reported: 04/03/18 09:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ERH547	1803016-01	Water	03/13/18 10:40	03/14/18 09:32
ERH545	1803016-02	Water	03/12/18 09:50	03/14/18 09:32
ERH550	1803016-03	Water	03/12/18 14:35	03/14/18 09:32



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Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18073B
Project Number: R18U01	75 Hawthorne Street	Reported: 04/03/18 09:33
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1803016-01

Water - Sampled: 03/13/18 10:40

Sample ID: ERH547

Extractable Petroleum Hydrocarbons

TPH - Diesel Range Organics	RE1	2,900	F13	150	ug/L	B18C040	03/14/18	03/21/18	8015C
TPH - Oil Range Organics	RE1	ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>	<i>RE1</i>		59 %	47-130%		"	"	"	

Sample ID: ERH547

Extractable Petroleum Hydrocarbons with Silica Gel Cleanup

TPH - Diesel Range Organics		430	F13	150	"	"	"	03/20/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>			58 %	47-130%		"	"	"	

Sample ID: ERH547

Semivolatile Organic Compounds by EPA Method 8270D

Naphthalene	RE2	61,000		1,000	ng/L	B18C044	03/15/18	03/22/18	8270D (SIM)
2-Methylnaphthalene	RE2	15,000		1,000	"	"	"	"	8270D (SIM)
1-Methylnaphthalene	RE2	23,000		1,000	"	"	"	"	8270D (SIM)
Acenaphthylene	RE2	ND	U	1,000	"	"	"	"	8270D (SIM)
Acenaphthene	RE2	570	C1, J	1,000	"	"	"	"	8270D (SIM)
Fluorene	RE2	ND	U	1,000	"	"	"	"	8270D (SIM)
Phenanthrene		ND	U	50	"	"	"	03/22/18	8270D (SIM)
Anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Chrysene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(b)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(k)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Indeno(1,2,3-cd)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Dibenz(a,h)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(g,h,i)perylene		ND	U	50	"	"	"	"	8270D (SIM)
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>RE2</i>		68 %	32-110%		"	"	03/22/18	
<i>Surrogate: Terphenyl-d14</i>			89 %	39-136%		"	"	03/22/18	

Lab ID: 1803016-02

Water - Sampled: 03/12/18 09:50

Sample ID: ERH545

Extractable Petroleum Hydrocarbons

TPH - Diesel Range Organics		180	F13	150	ug/L	B18C040	03/14/18	03/20/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>			63 %	47-130%		"	"	"	

Sample ID: ERH545

Extractable Petroleum Hydrocarbons with Silica Gel Cleanup

TPH - Diesel Range Organics		ND	U	150	"	"	"	03/20/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C



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Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18073B
Project Number: R18U01	75 Hawthorne Street	Reported: 04/03/18 09:33
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1803016-02 **Water - Sampled: 03/12/18 09:50**

Sample ID: ERH545 **Extractable Petroleum Hydrocarbons with Silica Gel Cleanup**
Surrogate: Hexacosane 61 % 47-130% B18C040 03/14/18 03/20/18

Sample ID:	ERH545	Semivolatile Organic Compounds by EPA Method 8270D							
		B18C044	03/15/18	03/22/18	8270D (SIM)				
Naphthalene	190	50	ng/L						8270D (SIM)
2-Methylnaphthalene	ND U	50	"	"	"	"	"	"	8270D (SIM)
1-Methylnaphthalene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Acenaphthylene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Acenaphthene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Fluorene	27 C1, J	50	"	"	"	"	"	"	8270D (SIM)
Phenanthrene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Anthracene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Fluoranthene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Pyrene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Benzo(a)anthracene	53	50	"	"	"	"	"	"	8270D (SIM)
Chrysene	53	50	"	"	"	"	"	"	8270D (SIM)
Benzo(b)fluoranthene	180	50	"	"	"	"	"	"	8270D (SIM)
Benzo(k)fluoranthene	140	50	"	"	"	"	"	"	8270D (SIM)
Benzo(a)pyrene	78	50	"	"	"	"	"	"	8270D (SIM)
Indeno(1,2,3-cd)pyrene	430	50	"	"	"	"	"	"	8270D (SIM)
Dibenz(a,h)anthracene	350	50	"	"	"	"	"	"	8270D (SIM)
Benzo(g,h,i)perylene	480	50	"	"	"	"	"	"	8270D (SIM)
<i>Surrogate: 2-Fluorobiphenyl</i>	71 %	32-110%							
<i>Surrogate: Terphenyl-d14</i>	81 %	39-136%							

Lab ID: 1803016-03 **Water - Sampled: 03/12/18 14:35**

Sample ID: ERH550 **Extractable Petroleum Hydrocarbons**
 TPH - Diesel Range Organics 150 F13 150 ug/L B18C040 03/14/18 03/20/18 8015C
 TPH - Oil Range Organics ND U 600 " " " " 8015C
Surrogate: Hexacosane 57 % 47-130% " " "

Sample ID: ERH550 **Extractable Petroleum Hydrocarbons with Silica Gel Cleanup**
 TPH - Diesel Range Organics ND U 150 " " 03/20/18 8015C
 TPH - Oil Range Organics ND U 600 " " " 8015C
Surrogate: Hexacosane 59 % 47-130% " " "

Sample ID:	ERH550	Semivolatile Organic Compounds by EPA Method 8270D							
		B18C044	03/15/18	03/22/18	8270D (SIM)				
Naphthalene	ND U	50	ng/L						8270D (SIM)
2-Methylnaphthalene	ND U	50	"	"	"	"	"	"	8270D (SIM)
1-Methylnaphthalene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Acenaphthylene	ND U	50	"	"	"	"	"	"	8270D (SIM)
Acenaphthene	ND U	50	"	"	"	"	"	"	8270D (SIM)



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Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	1803016-03							Water - Sampled: 03/12/18 14:35	
Sample ID:	ERH550								Semivolatle Organic Compounds by EPA Method 8270D
Fluorene		ND	U	50	ng/L	B18C044	03/15/18	03/22/18	8270D (SIM)
Phenanthrene		ND	U	50	"	"	"	"	8270D (SIM)
Anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Chrysene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(b)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(k)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Indeno(1,2,3-cd)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Dibenz(a,h)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(g,h,i)perylene		ND	U	50	"	"	"	"	8270D (SIM)
<i>Surrogate: 2-Fluorobiphenyl</i>			68 %	32-110%		"	"	"	
<i>Surrogate: Terphenyl-d14</i>			92 %	39-136%		"	"	"	



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B18C040 - 3520C CLLE - TPH - Extractable

Prepared: 03/14/18 Analyzed: 03/20/18
 Extractable Petroleum Hydrocarbons - Quality Control

Blank (B18C040-BLK1)

TPH - Diesel Range Organics	ND	U		150 ug/L						
TPH - Oil Range Organics	ND	U		600 "						

Surrogate: Hexacosane 99.1 " 150 66 47-130

LCS (B18C040-BS1)

TPH - Diesel Range Organics	1,100			150 ug/L	1500		73	59-109		
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Surrogate: Hexacosane 101 " 150 68 47-130

Batch B18C040 - 3520C CLLE - TPH-Extractable SGC

Prepared: 03/14/18 Analyzed: 03/20/18
 Extractable Petroleum Hydrocarbons with Silica Gel Cleanup - Quality Control

Blank (B18C040-BLK1)

TPH - Diesel Range Organics	ND	U		150 ug/L						
TPH - Oil Range Organics	ND	U		600 "						

Surrogate: Hexacosane 99.1 " 150 66 47-130

LCS (B18C040-BS1)

TPH - Diesel Range Organics	1,100			150 ug/L	1500		73	59-109		
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Surrogate: Hexacosane 101 " 150 68 47-130

Batch B18C044 - 3520C CLLE - PAH-Low

Prepared: 03/15/18 Analyzed: 03/22/18
 Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Blank (B18C044-BLK1)

Naphthalene	ND	U		50 ng/L						
2-Methylnaphthalene	ND	U		50 "						
1-Methylnaphthalene	ND	U		50 "						
Acenaphthylene	ND	U		50 "						
Acenaphthene	ND	U		50 "						
Fluorene	ND	U		50 "						
Phenanthrene	ND	U		50 "						
Anthracene	ND	U		50 "						
Fluoranthene	ND	U		50 "						
Pyrene	ND	U		50 "						
Benzo(a)anthracene	ND	U		50 "						
Chrysene	ND	U		50 "						
Benzo(b)fluoranthene	ND	U		50 "						
Benzo(k)fluoranthene	ND	U		50 "						
Benzo(a)pyrene	ND	U		50 "						
Indeno(1,2,3-cd)pyrene	ND	U		50 "						
Dibenz(a,h)anthracene	ND	U		50 "						
Benzo(g,h,i)perylene	ND	U		50 "						



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B18C044 - 3520C CLLE - PAH-Low

Prepared: 03/15/18 Analyzed: 03/22/18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Blank (B18C044-BLK1)

Surrogate: 2-Fluorobiphenyl	3590			"	5000		72	32-110		
Surrogate: Terphenyl-d14	4960			"	5000		99	39-136		

LCS (B18C044-BS1)

Naphthalene	642			50 ng/L	1000		64	20-110		
2-Methylnaphthalene	655			50 "	1000		65	20-110		
1-Methylnaphthalene	653			50 "	1000		65	20-110		
Acenaphthylene	776			50 "	1000		78	35-110		
Acenaphthene	746			50 "	1000		75	25-110		
Fluorene	818			50 "	1000		82	36-110		
Phenanthrene	902			50 "	1000		90	49-110		
Anthracene	898			50 "	1000		90	56-110		
Fluoranthene	928			50 "	1000		93	65-110		
Pyrene	906			50 "	1000		91	57-114		
Benzo(a)anthracene	991			50 "	1000		99	70-125		
Chrysene	884			50 "	1000		88	64-110		
Benzo(b)fluoranthene	1,010			50 "	1000		101	63-111		
Benzo(k)fluoranthene	997			50 "	1000		100	63-116		
Benzo(a)pyrene	933			50 "	1000		93	62-110		
Indeno(1,2,3-cd)pyrene	962			50 "	1000		96	60-116		
Dibenz(a,h)anthracene	1,000			50 "	1000		100	60-121		
Benzo(g,h,i)perylene	949			50 "	1000		95	59-110		

Surrogate: 2-Fluorobiphenyl	3300			"	5000		66	32-110		
Surrogate: Terphenyl-d14	4530			"	5000		91	39-136		



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75 Hawthorne Street
San Francisco CA, 94105

SDG: 18073B

Reported: 04/03/18 09:33

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

F13 Fuel or Product Type: mixed or unknown

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

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

LABNAME	LABSAMP_QCTYPE	MATRIX	PREPDATE	ANADATE	BATCH	METHOD	METHOD	PREPNAME	ANALYTE	CASNUMB	SURROGA	TIC	RESULT	DL	RL	UNITS	RPT0	MDL	BASIS	DILUTION	SOURCECD	SOURCERS	SPIKELEVEL	RECOVERY	RPD	UPPERCL	LOWERCL	RPDCL	ANALYST	PSOLIDS	LNOTE	ANOTE	ANALYTEORDER				
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	ND	75	150	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Oil	RTPH-ORO	FALSE	FALSE	ND	300	600	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	99.1			ug/L	TRUE	NA	1	150	66		130	47									710			
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	ND	75	150	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Oil	RTPH-ORO	FALSE	FALSE	ND	300	600	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	99.1			ug/L	TRUE	NA	1	150	66		130	47										710		
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	1100	75	150	ug/L	TRUE	NA	1	1500	73		109	59												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	101			ug/L	TRUE	NA	1	150	68		130	47												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	1100	75	150	ug/L	TRUE	NA	1	1500	73		109	59												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	101			ug/L	TRUE	NA	1	150	68		130	47												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	103	75	150	ug/L	TRUE	NA	1	150	69		100	0												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Oil	RTPH-ORO	FALSE	FALSE	ND	300	600	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	101			ug/L	TRUE	NA	1	150	68		130	47												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Dies	TPH-ORO	FALSE	FALSE	99.8	75	150	ug/L	TRUE	NA	1	150	67		100	0												
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	TPH - Oil	RTPH-ORO	FALSE	FALSE	ND	300	600	ug/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/14/2013	03/20/2013	B18C004	TPH - Extra	8015C	3520C	CLL	Hexacosar	630-01-3	TRUE	FALSE	102			ug/L	TRUE	NA	1	150	68		100	0												
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Naphthalen	91-20-3	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	2-Methyln	91-57-6	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	1-Methyln	90-12-0	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Acenaphth	208-96-8	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Acenaphth	83-32-9	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Fluorene	86-73-7	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Phenanthr	85-01-8	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Anthracen	120-12-7	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Fluoranth	206-44-0	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Pyrene	129-00-0	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Benzo(a)	56-55-3	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Chrysene	218-01-9	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Benzo(b)	205-99-2	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Benzo(k)	207-08-9	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Benzo(a)l	p50-32-8	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Indeno(1,2)	193-39-5	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Dibenz(a,h)	153-70-3	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Benzo(g,h)	191-24-2	FALSE	FALSE	ND	25	50	ng/L	TRUE	NA	1																
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	2-Fluorob	321-60-8	TRUE	FALSE	3590	25	50	ng/L	TRUE	NA	1	5000	72		110	32											
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	2-Fluorob	321-60-8	TRUE	FALSE	4960	25	50	ng/L	TRUE	NA	1	5000	99		136	39											
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Terphenyl	1718-51-0	TRUE	FALSE	25	50	ng/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	Naphthalen	91-20-3	FALSE	FALSE	25	50	ng/L	TRUE	NA	1																	
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	2-Methyln	91-57-6	FALSE	FALSE	655	25	50	ng/L	TRUE	NA	1	1000	65		110	20											
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low	8270D	(SIF	3520C	CLL	1-Methyln	90-12-0	FALSE	FALSE	653	25	50	ng/L	TRUE	NA	1	1000	65		110	20											
EPA Regio 118C004-I	Blank	Water	03/15/2013	03/22/2013	B18C004	PAH-Low																															

EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Naphthale 91-20-3	FALSE	FALSE	40.7	25	50	ng/L	TRUE	NA	1		50.0	81	200	0	TD	J	200	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL 2-Methylin 91-57-6	FALSE	FALSE	40.1	25	50	ng/L	TRUE	NA	1		50.0	80	200	0	TD	J	240	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL 1-Methylin 90-12-0	FALSE	FALSE	39.4	25	50	ng/L	TRUE	NA	1		50.0	79	200	0	TD	J	245	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Acenaphth 208-96-8	FALSE	FALSE	37.3	25	50	ng/L	TRUE	NA	1		50.0	75	200	0	TD	J	310	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Kcenaphth 83-32-9	FALSE	FALSE	43.8	25	50	ng/L	TRUE	NA	1		50.0	88	200	0	TD	J	340	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Fluorene 86-73-7	FALSE	FALSE	41.2	25	50	ng/L	TRUE	NA	1		50.0	82	200	0	TD	J	400	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Phenanthr 85-01-8	FALSE	FALSE	44.9	25	50	ng/L	TRUE	NA	1		50.0	90	200	0	TD	J	480	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Anthracen 120-12-7	FALSE	FALSE	36.8	25	50	ng/L	TRUE	NA	1		50.0	74	200	0	TD	J	490	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Fluoranthr 206-44-0	FALSE	FALSE	43.2	25	50	ng/L	TRUE	NA	1		50.0	86	200	0	TD	J	520	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Pyrene 129-0-0	FALSE	FALSE	44.4	25	50	ng/L	TRUE	NA	1		50.0	89	200	0	TD	J	530	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Bz(a)h 56-55-3	FALSE	FALSE	44.6	25	50	ng/L	TRUE	NA	1		50.0	89	200	0	TD	J	550	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Chrysen 218-91-9	FALSE	FALSE	46.7	25	50	ng/L	TRUE	NA	1		50.0	93	200	0	TD	J	570	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Benz(a)h 205-99-2	FALSE	FALSE	49.9	25	50	ng/L	TRUE	NA	1		50.0	100	200	0	TD	J	600	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Benz(a)h 207-08-9	FALSE	FALSE	50.9	25	50	ng/L	TRUE	NA	1		50.0	102	200	0	TD	J	610	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Benz(a)h 50-32-8	FALSE	FALSE	38.0	25	50	ng/L	TRUE	NA	1		50.0	76	200	0	TD	J	620	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Indeno(1,2,3-cd) 193-39-5	FALSE	FALSE	51.7	25	50	ng/L	TRUE	NA	1		50.0	103	200	0	TD	J	630	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Dibenz(a,h) 53-70-3	FALSE	FALSE	54.1	25	50	ng/L	TRUE	NA	1		50.0	108	200	0	TD	J	640	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Benz(b)h 191-24-2	FALSE	FALSE	51.5	25	50	ng/L	TRUE	NA	1		50.0	103	200	0	TD	J	650	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL 2-Fluorobi 321-60-8	TRUE	FALSE	36.50	25	50	ng/L	TRUE	NA	1		5000	73	110	32	TD	J	870	
EPA Regio B18C044-I MRL ChciWater	03/15/20103/22/201818C044	PAH-Low	82700	(SfI 3520C CLL Terpheny) 1718-51-0	TRUE	FALSE	47.30	25	50	ng/L	TRUE	NA	1		5000	95	136	39	TD	J	890	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	55.6			ug/mL	TRUE	NA	1		50.0	111			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	11.0			ug/mL	TRUE	NA	1		10.0	110			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	171			ug/mL	TRUE	NA	1		150	114			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	28.9			ug/mL	TRUE	NA	1		25.0	115			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	579			ug/mL	TRUE	NA	1		500	116			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	59.1			ug/mL	TRUE	NA	1		50.0	118			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	1420			ug/mL	TRUE	NA	1		1250	114			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	83.1			ug/mL	TRUE	NA	1		75.0	111			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	4500			ug/mL	TRUE	NA	1		4000	112			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	112			ug/mL	TRUE	NA	1		100	112			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	180			ug/mL	TRUE	NA	1		200	90			TD	J	20	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	46.6			ug/mL	TRUE	NA	1		50.0	93			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	389			ug/mL	TRUE	NA	1		400	97			TD	J	20	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	42.6			ug/mL	TRUE	NA	1		50.0	85			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	1000			ug/mL	TRUE	NA	1		1000	100			TD	J	20	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	47.0			ug/mL	TRUE	NA	1		50.0	94			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	4170			ug/mL	TRUE	NA	1		4000	104			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	46.7			ug/mL	TRUE	NA	1		50.0	93			TD	J	710	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	10900			ug/mL	TRUE	NA	1		10000	109			TD	J	20	
EPA Regio B18C063-I Cal Standa Water	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	46.7			ug/mL	TRUE	NA	1		50.0	93			TD	J	710	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	163			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	234			ug/mL	TRUE	NA	1		20				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	16.8			ug/mL	TRUE	NA	1		20.0	84		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	2.43			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	9.70			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	46.4			ug/mL	TRUE	NA	1		50.0	93		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	294			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	5.61			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	44.7			ug/mL	TRUE	NA	1		50.0	89		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	2.77			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	5.60			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	45.5			ug/mL	TRUE	NA	1		50.0	91		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	419			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	378			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	42.4			ug/mL	TRUE	NA	1		50.0	85		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	42.4			ug/mL	TRUE	NA	1		10				TD	J	10	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	4.56			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	42.4			ug/mL	TRUE	NA	1		50.0	85		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Dies TPH-DRO	FALSE	FALSE	501			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 TPH - Oil RTPH-ORO	FALSE	FALSE	4.01			ug/mL	TRUE	NA	1		10				TD	J	20	
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/201518C063	TPH - Extr	8015C	B18C027 Hexacosar 630-01-3	TRUE	FALSE	42.5			ug/mL	TRUE	NA	1		50.0	85		130	47	TD	J	710
EPA Regio B18C063-I Initial Cal IWater	03/16/20103/16/2015																					

QUALIFIER DESCRIPTION

- C1 The reported concentration for this analyte is below the quantitation limit.
- F13 Fuel or Product Type: mixed or unknown
- J The reported result for this analyte should be considered an estimated value.
- U This analyte was not detected.