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ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-273173-1
Client Project/Site: Title 22 Drinking Water

For:
All American Asphalt
1776 All American Way
Corona, California 92879

Attn: Timothy Ballon

Jennifer L. Moffatt

Authorized for release by:
10/26/2020 8:57:01 AM

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Table of Contents

Sample Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-273173-1	Pit Pond	Water	10/13/20 10:00	10/13/20 13:05	

Job ID: 440-273173-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-273173-1

Comments
No additional comments.

Receipt
The sample was received on 10/13/2020 1:05 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

Receipt Exceptions
The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): Pit Pond (440-273173-1).

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method EPA 537(Mod): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS the following sample: Pit Pond (440-273173-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with: preparation batch 320-422289.

320-422289
Method: 3535 PFC-W

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Client Sample ID: Pit Pond

Date Collected: 10/13/20 10:00
Date Received: 10/13/20 13:05

Lab Sample ID: 440-273173-1

Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50		ug/L			10/16/20 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*38 - 134*		*10/16/20 00:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		49		ug/L		10/20/20 13:21	10/21/20 16:08	1
C23-C40	ND		49		ug/L		10/20/20 13:21	10/21/20 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*114*		*68 - 140*	*10/20/20 13:21*	*10/21/20 16:08*	*1*

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**25**		4.4		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluoropentanoic acid (PFPeA)	**22**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorohexanoic acid (PFHxA)	**41**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluoroheptanoic acid (PFHpA)	**45**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorooctanoic acid (PFOA)	**160**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorononanoic acid (PFNA)	**2.8**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorobutanesulfonic acid (PFBS)	**40**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluoropentanesulfonic acid (PFPeS)	**23**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorohexanesulfonic acid (PFHxS)	**41**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	**3.9**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorooctanesulfonic acid (PFOS)	**120**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
Perfluorooctanesulfonamide (FOSA)	**2.7**		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L		10/16/20 04:41	10/17/20 21:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L		10/16/20 04:41	10/17/20 21:15	1
4:2 Fluorotelomer sulfonic acid	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1
6:2 Fluorotelomer sulfonic acid	ND		4.4		ng/L		10/16/20 04:41	10/17/20 21:15	1
8:2 Fluorotelomer sulfonic acid	ND		1.8		ng/L		10/16/20 04:41	10/17/20 21:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*61*		*50 - 150*	*10/16/20 04:41*	*10/17/20 21:15*	*1*
13C5 PFPeA	*74*		*50 - 150*	*10/16/20 04:41*	*10/17/20 21:15*	*1*
13C2 PFHxA	*81*		*50 - 150*	*10/16/20 04:41*	*10/17/20 21:15*	*1*
13C4 PFHpA	*87*		*50 - 150*	*10/16/20 04:41*	*10/17/20 21:15*	*1*
13C4 PFOA	*95*		*50 - 150*	*10/16/20 04:41*	*10/17/20 21:15*	*1*

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Client Sample ID: Pit Pond

Date Collected: 10/13/20 10:00
Date Received: 10/13/20 13:05

Lab Sample ID: 440-273173-1

Matrix: Water

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15 (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	101		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C2 PFDA	93		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C2 PFUnA	99		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C2 PFDoA	85		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C2 PFTeDA	66		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C3 PFBS	79		50 - 150	10/16/20 04:41	10/17/20 21:15	1
18O2 PFHxS	90		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C4 PFOS	87		50 - 150	10/16/20 04:41	10/17/20 21:15	1
13C8 FOSA	83		50 - 150	10/16/20 04:41	10/17/20 21:15	1
M2-4:2 FTS	129		50 - 150	10/16/20 04:41	10/17/20 21:15	1
M2-6:2 FTS	128		50 - 150	10/16/20 04:41	10/17/20 21:15	1
M2-8:2 FTS	155	*5	50 - 150	10/16/20 04:41	10/17/20 21:15	1
d5-NEtFOSAA	102		50 - 150	10/16/20 04:41	10/17/20 21:15	1
d3-NMeFOSAA	89		50 - 150	10/16/20 04:41	10/17/20 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**1.8**		1.0		mg/L			10/14/20 18:39	1
Chlorine, Total Residual	ND	HF	0.10		mg/L			10/23/20 14:54	1
Sulfide	ND	F1	0.050		mg/L			10/19/20 13:21	1

Method Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	ECL 2
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
EPA 537(Mod)	PFAS for QSM 5.1, Table B-15	EPA	TAL SAC
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM 4500 Cl G	Chlorine, Residual	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	ECL 2

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Lab Chronicle

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Client Sample ID: Pit Pond

Date Collected: 10/13/20 10:00
Date Received: 10/13/20 13:05

Lab Sample ID: 440-273173-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	102144	10/16/20 00:20	W6MG	ECL 2
Total/NA	Prep	3510C			505.4 mL	2.5 mL	103196	10/20/20 13:21	SAL	ECL 1
Total/NA	Analysis	8015B		1			103466	10/21/20 16:08	N5Y3	ECL 1
Total/NA	Prep	3535			281.3 mL	10.0 mL	422289	10/16/20 04:41	EG	TAL SAC
Total/NA	Analysis	EPA 537(Mod)		1			422915	10/17/20 21:15	S1M	TAL SAC
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	627594	10/14/20 18:39	HTL	TAL IRV
Total/NA	Analysis	SM 4500 Cl G		1	10 mL	10 mL	628606	10/23/20 14:54	NN	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	627999	10/19/20 13:21	KMY	TAL IRV

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-102144/12
Matrix: Water
Analysis Batch: 102144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50		ug/L			10/15/20 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*38 - 134*		*10/15/20 17:11*	*1*

Lab Sample ID: LCS 570-102144/10
Matrix: Water
Analysis Batch: 102144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (C4-C13)			2020	2250		ug/L		111	78 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*38 - 134*

Lab Sample ID: LCSD 570-102144/11
Matrix: Water
Analysis Batch: 102144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			2020	2360		ug/L		117	78 - 120	5	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*38 - 134*

Lab Sample ID: 570-40754-D-1 MS
Matrix: Water
Analysis Batch: 102144

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (C4-C13)	380		2020	2560		ug/L		108	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*38 - 134*

Lab Sample ID: 570-40754-D-1 MSD
Matrix: Water
Analysis Batch: 102144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	380		2020	2570		ug/L		108	68 - 122	0	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*38 - 134*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-103196/1-A
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		50		ug/L		10/20/20 13:21	10/21/20 12:51	1
C23-C40	ND		50		ug/L		10/20/20 13:21	10/21/20 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*68 - 140*	*10/20/20 13:21*	*10/21/20 12:51*	*1*

Lab Sample ID: LCS 570-103196/2-A
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103196

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2000	2230		ug/L		112	69 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*117*		*68 - 140*

Lab Sample ID: LCSD 570-103196/3-A
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103196

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2000	2250		ug/L		113	69 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*118*		*68 - 140*

Lab Sample ID: 570-41235-A-3-A MS
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	ND		2210	1490		ug/L		67	55 - 133		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*104*		*68 - 140*

Lab Sample ID: 570-41235-A-3-B MSD
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		2210	1510		ug/L		68	55 - 133	1	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-41235-A-3-B MSD
Matrix: Water
Analysis Batch: 103466

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103196

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	104		68 - 140

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15

Lab Sample ID: MB 320-422289/1-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
6:2 Fluorotelomer sulfonic acid	ND		5.0		ng/L		10/16/20 04:41	10/17/20 20:30	1
8:2 Fluorotelomer sulfonic acid	ND		2.0		ng/L		10/16/20 04:41	10/17/20 20:30	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	73		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C5 PFPeA	79		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C2 PFHxA	79		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C4 PFHpA	87		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C4 PFOA	93		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C5 PFNA	96		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C2 PFDA	90		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C2 PFUnA	99		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C2 PFDoA	89		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C2 PFTeDA	68		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C3 PFBS	76		50 - 150	10/16/20 04:41	10/17/20 20:30	1
18O2 PFHxS	82		50 - 150	10/16/20 04:41	10/17/20 20:30	1

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15 (Continued)

Lab Sample ID: MB 320-422289/1-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422289

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		50 - 150	10/16/20 04:41	10/17/20 20:30	1
13C8 FOSA	74		50 - 150	10/16/20 04:41	10/17/20 20:30	1
M2-4:2 FTS	84		50 - 150	10/16/20 04:41	10/17/20 20:30	1
M2-6:2 FTS	93		50 - 150	10/16/20 04:41	10/17/20 20:30	1
M2-8:2 FTS	103		50 - 150	10/16/20 04:41	10/17/20 20:30	1
d5-NEtFOSAA	93		50 - 150	10/16/20 04:41	10/17/20 20:30	1
d3-NMeFOSAA	84		50 - 150	10/16/20 04:41	10/17/20 20:30	1

Lab Sample ID: LCS 320-422289/2-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	41.5		ng/L		104	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	37.0		ng/L		93	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	39.7		ng/L		99	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	43.6		ng/L		109	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	39.2		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.9		ng/L		105	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	33.6		ng/L		84	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	41.2		ng/L		103	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	40.2		ng/L		101	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	33.8		ng/L		84	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	37.3		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	35.9		ng/L		102	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.0		ng/L		104	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.4		ng/L		92	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.8		ng/L		102	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	37.7		ng/L		102	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	46.0		ng/L		115	73 - 133
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.1		ng/L		98	76 - 136
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.3		ng/L		108	76 - 136
4:2 Fluorotelomer sulfonic acid	37.4	39.1		ng/L		105	79 - 139
6:2 Fluorotelomer sulfonic acid	37.9	36.1		ng/L		95	59 - 175
8:2 Fluorotelomer sulfonic acid	38.3	39.4		ng/L		103	75 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	78		50 - 150

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15 (Continued)

Lab Sample ID: LCS 320-422289/2-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422289

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C5 PFPeA	*84*		*50 - 150*
13C2 PFHxA	*83*		*50 - 150*
13C4 PFHpA	*90*		*50 - 150*
13C4 PFOA	*100*		*50 - 150*
13C5 PFNA	*98*		*50 - 150*
13C2 PFDA	*94*		*50 - 150*
13C2 PFUnA	*101*		*50 - 150*
13C2 PFDoA	*96*		*50 - 150*
13C2 PFTeDA	*91*		*50 - 150*
13C3 PFBS	*81*		*50 - 150*
18O2 PFHxS	*91*		*50 - 150*
13C4 PFOS	*86*		*50 - 150*
13C8 FOSA	*79*		*50 - 150*
M2-4:2 FTS	*89*		*50 - 150*
M2-6:2 FTS	*96*		*50 - 150*
M2-8:2 FTS	*109*		*50 - 150*
d5-NEtFOSAA	*102*		*50 - 150*
d3-NMeFOSAA	*93*		*50 - 150*

Lab Sample ID: LCSD 320-422289/3-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	41.1		ng/L		103	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)			40.0	38.0		ng/L		95	71 - 131	2	30
Perfluorohexanoic acid (PFHxA)			40.0	40.3		ng/L		101	73 - 133	2	30
Perfluoroheptanoic acid (PFHpA)			40.0	40.0		ng/L		100	72 - 132	9	30
Perfluorooctanoic acid (PFOA)			40.0	40.3		ng/L		101	70 - 130	3	30
Perfluorononanoic acid (PFNA)			40.0	45.6		ng/L		114	75 - 135	8	30
Perfluorodecanoic acid (PFDA)			40.0	34.5		ng/L		86	76 - 136	3	30
Perfluoroundecanoic acid (PFUnA)			40.0	40.9		ng/L		102	68 - 128	1	30
Perfluorododecanoic acid (PFDoA)			40.0	41.5		ng/L		104	71 - 131	3	30
Perfluorotridecanoic acid (PFTriA)			40.0	34.2		ng/L		86	71 - 131	1	30
Perfluorotetradecanoic acid (PFTeA)			40.0	43.0		ng/L		107	70 - 130	14	30
Perfluorobutanesulfonic acid (PFBS)			35.4	35.4		ng/L		100	67 - 127	2	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	40.2		ng/L		107	66 - 126	3	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	33.8		ng/L		93	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	37.3		ng/L		98	76 - 136	4	30
Perfluorooctanesulfonic acid (PFOS)			37.1	37.1		ng/L		100	70 - 130	2	30
Perfluorodecanesulfonic acid (PFDS)			38.6	38.2		ng/L		99	71 - 131	0	30

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15 (Continued)

Lab Sample ID: LCSD 320-422289/3-A
Matrix: Water
Analysis Batch: 422915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonamide (FOSA)			40.0	46.6		ng/L		117	73 - 133	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	38.1		ng/L		95	76 - 136	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	40.9		ng/L		102	76 - 136	6	30
4:2 Fluorotelomer sulfonic acid			37.4	37.3		ng/L		100	79 - 139	5	30
6:2 Fluorotelomer sulfonic acid			37.9	36.4		ng/L		96	59 - 175	1	30
8:2 Fluorotelomer sulfonic acid			38.3	38.5		ng/L		101	75 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*80*		*50 - 150*
13C5 PFPeA	*84*		*50 - 150*
13C2 PFHxA	*84*		*50 - 150*
13C4 PFHpA	*93*		*50 - 150*
13C4 PFOA	*95*		*50 - 150*
13C5 PFNA	*95*		*50 - 150*
13C2 PFDA	*107*		*50 - 150*
13C2 PFUnA	*99*		*50 - 150*
13C2 PFDoA	*95*		*50 - 150*
13C2 PFTeDA	*81*		*50 - 150*
13C3 PFBS	*84*		*50 - 150*
18O2 PFHxS	*94*		*50 - 150*
13C4 PFOS	*92*		*50 - 150*
13C8 FOSA	*82*		*50 - 150*
M2-4:2 FTS	*93*		*50 - 150*
M2-6:2 FTS	*98*		*50 - 150*
M2-8:2 FTS	*106*		*50 - 150*
d5-NEtFOSAA	*103*		*50 - 150*
d3-NMeFOSAA	*94*		*50 - 150*

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 440-627594/1
Matrix: Water
Analysis Batch: 627594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0		mg/L			10/14/20 18:39	1

Lab Sample ID: LCS 440-627594/2
Matrix: Water
Analysis Batch: 627594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			1000	986		mg/L		99	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 440-273109-B-1 DU
Matrix: Water
Analysis Batch: 627594

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	220		210		mg/L		3	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 440-628606/8
Matrix: Water
Analysis Batch: 628606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND		0.10		mg/L			10/23/20 14:54	1

Lab Sample ID: MRL 440-628606/7
Matrix: Water
Analysis Batch: 628606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorine, Total Residual	0.100	0.110		mg/L		110	50 - 150

Lab Sample ID: 440-273173-1 DU
Matrix: Water
Analysis Batch: 628606

Client Sample ID: Pit Pond
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorine, Total Residual	ND	HF	ND		mg/L		NC	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-627999/3
Matrix: Water
Analysis Batch: 627999

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050		mg/L			10/19/20 13:20	1

Lab Sample ID: LCS 440-627999/4
Matrix: Water
Analysis Batch: 627999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.499	0.430		mg/L		86	80 - 120

Lab Sample ID: 440-273173-1 MS
Matrix: Water
Analysis Batch: 627999

Client Sample ID: Pit Pond
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND	F1	0.499	0.293	F1	mg/L		59	70 - 130

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: 440-273173-1 MSD
Matrix: Water
Analysis Batch: 627999

Client Sample ID: Pit Pond
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND	F1	0.499	0.305	F1	mg/L		61	70 - 130	4	30

QC Association Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

GC VOA

Analysis Batch: 102144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	8015B	
MB 570-102144/12	Method Blank	Total/NA	Water	8015B	
LCS 570-102144/10	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-102144/11	Lab Control Sample Dup	Total/NA	Water	8015B	
570-40754-D-1 MS	Matrix Spike	Total/NA	Water	8015B	
570-40754-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 103196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	3510C	
MB 570-103196/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-103196/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-103196/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-41235-A-3-A MS	Matrix Spike	Total/NA	Water	3510C	
570-41235-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 103466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	8015B	103196
MB 570-103196/1-A	Method Blank	Total/NA	Water	8015B	103196
LCS 570-103196/2-A	Lab Control Sample	Total/NA	Water	8015B	103196
LCSD 570-103196/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	103196
570-41235-A-3-A MS	Matrix Spike	Total/NA	Water	8015B	103196
570-41235-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	103196

LCMS

Prep Batch: 422289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	3535	
MB 320-422289/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-422289/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-422289/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 422915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	EPA 537(Mod)	422289
MB 320-422289/1-A	Method Blank	Total/NA	Water	EPA 537(Mod)	422289
LCS 320-422289/2-A	Lab Control Sample	Total/NA	Water	EPA 537(Mod)	422289
LCSD 320-422289/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537(Mod)	422289

General Chemistry

Analysis Batch: 627594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	SM 2540D	
MB 440-627594/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 440-627594/2	Lab Control Sample	Total/NA	Water	SM 2540D	
440-273109-B-1 DU	Duplicate	Total/NA	Water	SM 2540D	

QC Association Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

General Chemistry

Analysis Batch: 627999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	SM 4500 S2 D	
MB 440-627999/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-627999/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
440-273173-1 MS	Pit Pond	Total/NA	Water	SM 4500 S2 D	
440-273173-1 MSD	Pit Pond	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 628606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-273173-1	Pit Pond	Total/NA	Water	SM 4500 Cl G	
MB 440-628606/8	Method Blank	Total/NA	Water	SM 4500 Cl G	
MRL 440-628606/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
440-273173-1 DU	Pit Pond	Total/NA	Water	SM 4500 Cl G	

Definitions/Glossary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Laboratory: Eurofins Calscience Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2540D		Water	Total Suspended Solids
SM 4500 Cl G		Water	Chlorine, Total Residual
SM 4500 S2 D		Water	Sulfide

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	10-31-20
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-1	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21

Accreditation/Certification Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax 949-260-3297

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: T. Ballon	Lab PM: Moffatt, Jennifer	Carrier Tracking No(s):	COC No: 440-187481-34276 1
Client Contact: Timothy Ballon	Phone: 951-544-3184	E-Mail: Jennifer.Moffatt@Eurofinset.com		Page: Page 1 of 1
Company: All American Asphalt				Job #

Address	Due Date Requested:
1776 All American Way	
City: Corona	TAT Requested (days):
State, Zip: CA, 92879	
Phone: 951-736-7600(Tel)	PO #: Purchase Order not required
Email: tballon@allamericanasphalt.com	WO #
Project Name: Title 22 Drinking Water	Project #: 44021071
Site	SSOW#

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_B15 - CA-DWQ 23 Required	2540D - Local Method	SM4500_S2_D - Local Method	4500_CL_G - TOTAL - Total Residual Chlorine	8015B_DRO - C13-C22 / C23-C40 - No Silica Gel Surrog	8015B_GRO - Gasoline CC C4-C12	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	CB	N	N	A		
Pit Pond	10-13-20	10A.M.	G	Water	N	N	✓	✓	✓	✓	✓	✓	9	

10/13/20

440-273173 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	X Marcos Ramos	10-13-2020 1:05 PM	ALL AMERICAN ASPHALT			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	10/15/20 1305	EC IRL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: IR59 3.7/3.6

Ver 01/16/2019

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Moffatt, Jennifer	Carrier Tracking No(s):	COC No: 440-163021.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jennifer.Moffatt@Eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 440-273173-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/23/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Title 22 Drinking Water	Project #: 44021071			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_B15/3535_PFC CA-DWQ 23 Required	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Pit Pond (440-273173-1)	10/13/20	10:00 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Olga Cineles	10/13/20 1700	SEC-INV		14 Oct 20 0930	ETAW SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No	tape	3.3°C

Ver: 01/16/2019

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Moffatt, Jennifer	Carrier Tracking No(s):	COC No: 440-163017.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jennifer.Moffatt@Eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Calscience LLC		Accreditations Required (See note): State Program - California		Job #: 440-273173-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 10/26/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Title 22 Drinking Water	Project #: 44021071			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3510C C13-C22 / C23-C40 - No Silica Gel Surrog	8015B_GRO/5030C (MOD) Gasoline CC C4-C12	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Pit Pond (440-273173-1)	10/13/20	10:00 Pacific		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Tim Au	Date/Time: 10.13.20 1530	Company BC LAB	Received by: Dannyle	Date/Time: 10/13/20 15:30	Company EL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: All American Asphalt

Job Number: 440-273173-1

Login Number: 273173
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: All American Asphalt

Job Number: 440-273173-1

Login Number: 273173
List Number: 2
Creator: Ramos, Maribel

List Source: Eurofins Calscience
List Creation: 10/13/20 04:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4".
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: All American Asphalt

Job Number: 440-273173-1

Login Number: 273173
List Number: 3
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento
List Creation: 10/14/20 01:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ob: 3.3c corr: 3.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: All American Asphalt
Project/Site: Title 22 Drinking Water

Job ID: 440-273173-1

Method: EPA 537(Mod) - PFAS for QSM 5.1, Table B-15

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
440-273173-1	Pit Pond	61	74	81	87	95	101	93	99
LCS 320-422289/2-A	Lab Control Sample	78	84	83	90	100	98	94	101
LCSD 320-422289/3-A	Lab Control Sample Dup	80	84	84	93	95	95	107	99
MB 320-422289/1-A	Method Blank	73	79	79	87	93	96	90	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	M242FTS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
440-273173-1	Pit Pond	85	66	79	90	87	83	129	128
LCS 320-422289/2-A	Lab Control Sample	96	91	81	91	86	79	89	96
LCSD 320-422289/3-A	Lab Control Sample Dup	95	81	84	94	92	82	93	98
MB 320-422289/1-A	Method Blank	89	68	76	82	82	74	84	93

		Percent Isotope Dilution Recovery (Acceptance Limits)		
		M282FTS	d5NEFOS	d3NMFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)
440-273173-1	Pit Pond	155 *5	102	89
LCS 320-422289/2-A	Lab Control Sample	109	102	93
LCSD 320-422289/3-A	Lab Control Sample Dup	106	103	94
MB 320-422289/1-A	Method Blank	103	93	84

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
d5NEFOS = d5-NEtFOSAA
d3NMFOS = d3-NMeFOSAA

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Sacramento Sample Receiving Notes

440-273173 Field Sheet

Tracking # : 1348 4110 4858

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courie

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-02 Corr. Factor: (+ / -) N/A °C

Ice b Wet b Gel _____ Other _____

Cooler Custody Seal: tape

Cooler ID: —

Temp Observed: 3.3 °C Corrected: 3.3 °C

From: Temp Blank ☐ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☐	☐
Cooler Temperature is acceptable?	☑	☐	☐

Initials: JP Date: 14 Oct 20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JP Date: 10/14/20

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: JP Date: 10/14/20

WR3-01C