

Surrogate Summary

SW-846

SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169689BL	PB169689BL	Bis(2-Chloroethyl)ether-d40		35.7	89		25	120
		Nitrobenzene-d5	40	37.8	94		20	125
		4-Chloroaniline-d4	40	35.8	89		1	146
		Dimethylphthalate-d6	40	37.8	95		25	130
		Acenaphthylene-d8	40	37.5	94		10	130
		Fluorene-d10	40	37.9	95		25	125
		Anthracene-d10	40	39.0	98		25	130
		Pyrene-d10	40	38.2	96		15	130
		Benzo(a)pyrene-d12	40	40.0	100		20	130
PB169689BS	PB169689BS	Bis(2-Chloroethyl)ether-d40		38.7	97		25	120
		Nitrobenzene-d5	40	42.4	106		20	125
		4-Chloroaniline-d4	40	37.1	93		1	146
		Dimethylphthalate-d6	40	41.5	104		25	130
		Acenaphthylene-d8	40	43.2	108		10	130
		Fluorene-d10	40	42.0	105		25	125
		Anthracene-d10	40	41.3	103		25	130
		Pyrene-d10	40	38.7	97		15	130
		Benzo(a)pyrene-d12	40	41.8	105		20	130
Q3084-01	PMW-9S(20250909)	Bis(2-Chloroethyl)ether-d40		29.6	74		25	120
		Nitrobenzene-d5	40	32.0	80		20	125
		4-Chloroaniline-d4	40	26.8	67		1	146
		Dimethylphthalate-d6	40	34.2	85		25	130
		Acenaphthylene-d8	40	33.2	83		10	130
		Fluorene-d10	40	33.2	83		25	125
		Anthracene-d10	40	37.9	95		25	130
		Pyrene-d10	40	36.8	92		15	130
		Benzo(a)pyrene-d12	40	38.2	95		20	130
Q3084-02	PMW-9D(20250909)	Bis(2-Chloroethyl)ether-d40		38.3	96		25	120
		Nitrobenzene-d5	40	35.5	89		20	125
		4-Chloroaniline-d4	40	31.6	79		1	146
		Dimethylphthalate-d6	40	41.2	103		25	130
		Acenaphthylene-d8	40	39.9	100		10	130
		Fluorene-d10	40	41.2	103		25	125
		Anthracene-d10	40	45.9	115		25	130
		Pyrene-d10	40	45.3	113		15	130
		Benzo(a)pyrene-d12	40	48.5	121		20	130
Q3084-03	PMW-8D(20250909)	Bis(2-Chloroethyl)ether-d40		31.3	78		25	120
		Nitrobenzene-d5	40	31.6	79		20	125
		4-Chloroaniline-d4	40	26.4	66		1	146
		Dimethylphthalate-d6	40	36.4	91		25	130
		Acenaphthylene-d8	40	34.8	87		10	130
		Fluorene-d10	40	36.5	91		25	125
		Anthracene-d10	40	40.6	101		25	130
		Pyrene-d10	40	41.1	103		15	130
		Benzo(a)pyrene-d12	40	44.5	111		20	130
Q3084-04	PMW-8S(20250909)	Bis(2-Chloroethyl)ether-d40		38.9	97		25	120
		Nitrobenzene-d5	40	37.2	93		20	125
		4-Chloroaniline-d4	40	32.9	82		1	146
		Dimethylphthalate-d6	40	40.0	100		25	130
		Acenaphthylene-d8	40	37.8	95		10	130
		Fluorene-d10	40	40.5	101		25	125

Surrogate Summary

SW-846

SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3084-04	PMW-8S(20250909)	Anthracene-d10	40	46.8	117		25	130
		Pyrene-d10	40	45.4	114		15	130
		Benzo(a)pyrene-d12	40	48.5	121		20	130
Q3084-05	FB(20250909)	Bis(2-Chloroethyl)ether-d4	40	35.6	89		25	120
		Nitrobenzene-d5	40	35.0	88		20	125
		4-Chloroaniline-d4	40	29.9	75		1	146
		Dimethylphthalate-d6	40	37.3	93		25	130
		Acenaphthylene-d8	40	37.9	95		10	130
		Fluorene-d10	40	37.9	95		25	125
		Anthracene-d10	40	39.9	100		25	130
		Pyrene-d10	40	39.1	98		15	130
		Benzo(a)pyrene-d12	40	42.1	105		20	130
		Bis(2-Chloroethyl)ether-d4	40	30.8	77		25	120
Q3084-06	PMW-6(20250910)	Nitrobenzene-d5	40	33.7	84		20	125
		4-Chloroaniline-d4	40	25.9	65		1	146
		Dimethylphthalate-d6	40	34.5	86		25	130
		Acenaphthylene-d8	40	32.8	82		10	130
		Fluorene-d10	40	35.1	88		25	125
		Anthracene-d10	40	40.2	100		25	130
		Pyrene-d10	40	38.3	96		15	130
		Benzo(a)pyrene-d12	40	41.9	105		20	130

Surrogate Summary

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SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169690BL	PB169690BL	Bis(2-Chloroethyl)ether-d40		41.2	103		25	120
		Nitrobenzene-d5	40	43.1	108		20	125
		4-Chloroaniline-d4	40	42.2	106		1	146
		Dimethylphthalate-d6	40	43.1	108		25	130
		Acenaphthylene-d8	40	43.7	109		10	130
		Fluorene-d10	40	43.3	108		25	125
		Anthracene-d10	40	43.1	108		25	130
		Pyrene-d10	40	44.0	110		15	130
		Benzo(a)pyrene-d12	40	44.7	112		20	130
PB169690BS	PB169690BS	Bis(2-Chloroethyl)ether-d40		40.0	100		25	120
		Nitrobenzene-d5	40	43.2	108		20	125
		4-Chloroaniline-d4	40	38.8	97		1	146
		Dimethylphthalate-d6	40	43.1	108		25	130
		Acenaphthylene-d8	40	43.6	109		10	130
		Fluorene-d10	40	43.4	108		25	125
		Anthracene-d10	40	43.3	108		25	130
		Pyrene-d10	40	42.6	107		15	130
		Benzo(a)pyrene-d12	40	46.5	116		20	130
Q3084-07	PMW-3(20250910)	Bis(2-Chloroethyl)ether-d40		34.3	86		25	120
		Nitrobenzene-d5	40	35.6	89		20	125
		4-Chloroaniline-d4	40	32.5	81		1	146
		Dimethylphthalate-d6	40	42.1	105		25	130
		Acenaphthylene-d8	40	38.4	96		10	130
		Fluorene-d10	40	40.9	102		25	125
		Anthracene-d10	40	43.5	109		25	130
		Pyrene-d10	40	46.2	115		15	130
		Benzo(a)pyrene-d12	40	45.8	114		20	130
Q3084-08	PMW-7S(20250910)	Bis(2-Chloroethyl)ether-d40		32.8	82		25	120
		Nitrobenzene-d5	40	35.5	89		20	125
		4-Chloroaniline-d4	40	32.4	81		1	146
		Dimethylphthalate-d6	40	41.4	103		25	130
		Acenaphthylene-d8	40	38.0	95		10	130
		Fluorene-d10	40	40.3	101		25	125
		Anthracene-d10	40	42.4	106		25	130
		Pyrene-d10	40	44.0	110		15	130
		Benzo(a)pyrene-d12	40	44.5	111		20	130
Q3084-09	PMW-7D(20250910)	Bis(2-Chloroethyl)ether-d40		36.5	91		25	120
		Nitrobenzene-d5	40	38.7	97		20	125
		4-Chloroaniline-d4	40	33.3	83		1	146
		Dimethylphthalate-d6	40	41.8	104		25	130
		Acenaphthylene-d8	40	39.5	99		10	130
		Fluorene-d10	40	41.0	102		25	125
		Anthracene-d10	40	43.8	110		25	130
		Pyrene-d10	40	48.5	121		15	130
		Benzo(a)pyrene-d12	40	46.6	116		20	130
Q3084-10	DUP(20250910)	Bis(2-Chloroethyl)ether-d40		32.7	82		25	120
		Nitrobenzene-d5	40	34.0	85		20	125
		4-Chloroaniline-d4	40	32.2	81		1	146
		Dimethylphthalate-d6	40	41.4	104		25	130
		Acenaphthylene-d8	40	37.5	94		10	130
		Fluorene-d10	40	40.1	100		25	125

Surrogate Summary

SW-846

SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3084-10	DUP(20250910)	Anthracene-d10	40	42.6	106		25	130
		Pyrene-d10	40	44.2	110		15	130
		Benzo(a)pyrene-d12	40	46.4	116		20	130
Q3084-11	PMW-10(20250910)	Bis(2-Chloroethyl)ether-d40	40	42.3	106		25	120
		Nitrobenzene-d5	40	38.0	95		20	125
		4-Chloroaniline-d4	40	34.1	85		1	146
		Dimethylphthalate-d6	40	43.6	109		25	130
		Acenaphthylene-d8	40	38.1	95		10	130
		Fluorene-d10	40	42.9	107		25	125
		Anthracene-d10	40	49.3	123		25	130
		Pyrene-d10	40	53.5	134	*	15	130
		Benzo(a)pyrene-d12	40	53.3	133	*	20	130
		Bis(2-Chloroethyl)ether-d40	40	38.6	96		25	120
Q3084-12	FB(20250910)	Nitrobenzene-d5	40	41.7	104		20	125
		4-Chloroaniline-d4	40	33.9	85		1	146
		Dimethylphthalate-d6	40	39.8	99		25	130
		Acenaphthylene-d8	40	38.8	97		10	130
		Fluorene-d10	40	40.6	101		25	125
		Anthracene-d10	40	44.7	112		25	130
		Pyrene-d10	40	42.9	107		15	130
		Benzo(a)pyrene-d12	40	45.5	114		20	130

Surrogate Summary

SW-846

SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169710BL	PB169710BL	Bis(2-Chloroethyl)ether-d40		25.7	64		25	120
		Nitrobenzene-d5	40	27.0	67		20	125
		4-Chloroaniline-d4	40	24.2	61		1	146
		Dimethylphthalate-d6	40	26.9	67		25	130
		Acenaphthylene-d8	40	27.9	70		10	130
		Fluorene-d10	40	27.3	68		25	125
		Anthracene-d10	40	28.2	70		25	130
		Pyrene-d10	40	26.2	65		15	130
		Benzo(a)pyrene-d12	40	28.1	70		20	130
PB169710BS	PB169710BS	Bis(2-Chloroethyl)ether-d40		34.8	87		25	120
		Nitrobenzene-d5	40	36.9	92		20	125
		4-Chloroaniline-d4	40	26.5	66		1	146
		Dimethylphthalate-d6	40	34.7	87		25	130
		Acenaphthylene-d8	40	36.6	92		10	130
		Fluorene-d10	40	36.3	91		25	125
		Anthracene-d10	40	36.7	92		25	130
		Pyrene-d10	40	35.2	88		15	130
		Benzo(a)pyrene-d12	40	38.4	96		20	130
Q3084-13	PMW-4(20250911)	Bis(2-Chloroethyl)ether-d40		29.9	75		25	120
		Nitrobenzene-d5	40	31.6	79		20	125
		4-Chloroaniline-d4	40	22.9	57		1	146
		Dimethylphthalate-d6	40	36.7	92		25	130
		Acenaphthylene-d8	40	33.1	83		10	130
		Fluorene-d10	40	35.1	88		25	125
		Anthracene-d10	40	38.4	96		25	130
		Pyrene-d10	40	35.7	89		15	130
		Benzo(a)pyrene-d12	40	38.9	97		20	130
Q3084-14	MW-1(MCUA)(20250911)	Bis(2-Chloroethyl)ether-d40		35.2	88		25	120
		Nitrobenzene-d5	40	38.9	97		20	125
		4-Chloroaniline-d4	40	27.5	69		1	146
		Dimethylphthalate-d6	40	44.4	111		25	130
		Acenaphthylene-d8	40	38.7	97		10	130
		Fluorene-d10	40	43.8	110		25	125
		Anthracene-d10	40	47.5	119		25	130
		Pyrene-d10	40	47.6	119		15	130
		Benzo(a)pyrene-d12	40	48.0	120		20	130
Q3084-15	MW-2(MCUA)(20250911)	Bis(2-Chloroethyl)ether-d40		33.7	84		25	120
		Nitrobenzene-d5	40	34.5	86		20	125
		4-Chloroaniline-d4	40	26.9	67		1	146
		Dimethylphthalate-d6	40	37.4	93		25	130
		Acenaphthylene-d8	40	34.4	86		10	130
		Fluorene-d10	40	38.9	97		25	125
		Anthracene-d10	40	43.3	108		25	130
		Pyrene-d10	40	43.4	109		15	130
		Benzo(a)pyrene-d12	40	43.8	109		20	130
Q3084-16	PMW-1(20250911)	Bis(2-Chloroethyl)ether-d40		36.6	91		25	120
		Nitrobenzene-d5	40	38.0	95		20	125
		4-Chloroaniline-d4	40	32.3	81		1	146
		Dimethylphthalate-d6	40	42.5	106		25	130
		Acenaphthylene-d8	40	38.2	96		10	130
		Fluorene-d10	40	42.1	105		25	125

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Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3084-16	PMW-1(20250911)	Anthracene-d10	40	46.7	117		25	130
		Pyrene-d10	40	45.7	114		15	130
		Benzo(a)pyrene-d12	40	47.3	118		20	130
Q3084-17	PMW-5(20250911)	Bis(2-Chloroethyl)ether-d40	40	39.3	98		25	120
		Nitrobenzene-d5	40	44.7	112		20	125
		4-Chloroaniline-d4	40	29.1	73		1	146
		Dimethylphthalate-d6	40	42.5	106		25	130
		Acenaphthylene-d8	40	43.4	109		10	130
		Fluorene-d10	40	44.3	111		25	125
		Anthracene-d10	40	48.1	120		25	130
		Pyrene-d10	40	46.3	116		15	130
		Benzo(a)pyrene-d12	40	48.8	122		20	130

Surrogate Summary

SW-846

SDG No.: Q3084

Client: Arcadis

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169711BL	PB169711BL	Bis(2-Chloroethyl)ether-d40		32.2	81		25	120
		Nitrobenzene-d5	40	32.9	82		20	125
		4-Chloroaniline-d4	40	29.7	74		1	146
		Dimethylphthalate-d6	40	31.7	79		25	130
		Acenaphthylene-d8	40	31.8	80		10	130
		Fluorene-d10	40	31.6	79		25	125
		Anthracene-d10	40	33.5	84		25	130
		Pyrene-d10	40	31.4	79		15	130
		Benzo(a)pyrene-d12	40	34.5	86		20	130
PB169711BS	PB169711BS	Bis(2-Chloroethyl)ether-d40		32.6	81		25	120
		Nitrobenzene-d5	40	33.9	85		20	125
		4-Chloroaniline-d4	40	23.9	60		1	146
		Dimethylphthalate-d6	40	32.9	82		25	130
		Acenaphthylene-d8	40	35.2	88		10	130
		Fluorene-d10	40	33.8	85		25	125
		Anthracene-d10	40	34.9	87		25	130
		Pyrene-d10	40	32.3	81		15	130
		Benzo(a)pyrene-d12	40	35.3	88		20	130
Q3084-18	PMW-2(20250911)	Bis(2-Chloroethyl)ether-d40		36.0	90		25	120
		Nitrobenzene-d5	40	38.8	97		20	125
		4-Chloroaniline-d4	40	32.5	81		1	146
		Dimethylphthalate-d6	40	41.1	103		25	130
		Acenaphthylene-d8	40	40.2	101		10	130
		Fluorene-d10	40	41.0	102		25	125
		Anthracene-d10	40	44.4	111		25	130
		Pyrene-d10	40	42.4	106		15	130
		Benzo(a)pyrene-d12	40	45.2	113		20	130
Q3084-19MS	PMW-2(20250911)MS	Bis(2-Chloroethyl)ether-d40		38.5	96		25	120
		Nitrobenzene-d5	40	41.6	104		20	125
		4-Chloroaniline-d4	40	36.9	92		1	146
		Dimethylphthalate-d6	40	46.4	116		25	130
		Acenaphthylene-d8	40	44.7	112		10	130
		Fluorene-d10	40	47.6	119		25	125
		Anthracene-d10	40	49.5	124		25	130
		Pyrene-d10	40	48.4	121		15	130
		Benzo(a)pyrene-d12	40	52.0	130		20	130
Q3084-20MSD	PMW-2(20250911)MSD	Bis(2-Chloroethyl)ether-d40		40.3	101		25	120
		Nitrobenzene-d5	40	39.8	99		20	125
		4-Chloroaniline-d4	40	36.2	90		1	146
		Dimethylphthalate-d6	40	45.3	113		25	130
		Acenaphthylene-d8	40	44.3	111		10	130
		Fluorene-d10	40	45.3	113		25	125
		Anthracene-d10	40	48.9	122		25	130
		Pyrene-d10	40	48.0	120		15	130
		Benzo(a)pyrene-d12	40	50.1	125		20	130
Q3084-21	FB(20250911)	Bis(2-Chloroethyl)ether-d40		43.3	108		25	120
		Nitrobenzene-d5	40	41.5	104		20	125
		4-Chloroaniline-d4	40	37.3	93		1	146
		Dimethylphthalate-d6	40	42.5	106		25	130
		Acenaphthylene-d8	40	43.3	108		10	130
		Fluorene-d10	40	44.5	111		25	125

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							Low	High
Q3084-21	FB(20250911)	Anthracene-d10	40	47.8	120		25	130
		Pyrene-d10	40	45.4	113		15	130
		Benzo(a)pyrene-d12	40	49.9	125		20	130
Q3084-22	EB(20250911)	Bis(2-Chloroethyl)ether-d40	40	41.5	104		25	120
		Nitrobenzene-d5	40	44.5	111		20	125
		4-Chloroaniline-d4	40	37.7	94		1	146
		Dimethylphthalate-d6	40	47.8	120		25	130
		Acenaphthylene-d8	40	47.7	119		10	130
		Fluorene-d10	40	49.0	123		25	125
		Anthracene-d10	40	50.9	127		25	130
		Pyrene-d10	40	49.4	123		15	130
		Benzo(a)pyrene-d12	40	52.4	131	*	20	130