

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1937

Client: Saxton Falls Sand and Gravel Co. Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1937-05MSD	Client Sample ID:	LARGE-PILE-CMSD					DataFile:	BM050102.D		
Benzaldehyde	1800	0	850	ug/Kg	47		0		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1600	ug/Kg	89		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1400	ug/Kg	78		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	1600	ug/Kg	89		7		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	1600	ug/Kg	89		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	1400	ug/Kg	78		0		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1500	ug/Kg	83		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	1600	ug/Kg	89		7		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1400	ug/Kg	78		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1400	ug/Kg	78		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1500	ug/Kg	83		0		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	1400	ug/Kg	78		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	1600	ug/Kg	89		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	1600	ug/Kg	89		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1500	ug/Kg	83		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1600	ug/Kg	89		0		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1500	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	660	ug/Kg	37	*	8		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1500	ug/Kg	83		0		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1500	ug/Kg	83		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	1500	ug/Kg	83		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1500	ug/Kg	83		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3500	0	3000	ug/Kg	86		0		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	1600	ug/Kg	89		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1500	ug/Kg	83		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1500	ug/Kg	83		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	1600	ug/Kg	89		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	1500	ug/Kg	83		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	1500	ug/Kg	83		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	1600	ug/Kg	89		7		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	910	ug/Kg	51	*	4		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	1500	ug/Kg	83		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3500	0	2900	ug/Kg	83		0		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3500	0	3100	ug/Kg	89		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1500	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	1500	ug/Kg	83		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1500	ug/Kg	83		0		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1500	ug/Kg	83		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	1600	ug/Kg	89		7		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1500	ug/Kg	83		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1500	ug/Kg	83		7		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1600	ug/Kg	89		7		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	1500	ug/Kg	83		7		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

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Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3500	0	3600	ug/Kg	103		0		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1500	ug/Kg	83		0		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	1500	ug/Kg	83		0		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1600	ug/Kg	89		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	1500	ug/Kg	83		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1600	ug/Kg	89		0		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	1600	ug/Kg	89		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	1600	ug/Kg	89		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	900	ug/Kg	50	*	2		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	0	1500	ug/Kg	83		7		70 (71)	130 (114)	30 (20)
Chrysene	1800	0	1500	ug/Kg	83		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	1500	ug/Kg	83		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	1500	ug/Kg	83		0		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	0	1500	ug/Kg	83		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	0	1500	ug/Kg	83		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	1600	ug/Kg	89		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1600	ug/Kg	89		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1600	ug/Kg	89		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1600	ug/Kg	89		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1600	ug/Kg	89		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1300	ug/Kg	72		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	1600	ug/Kg	89		7		70 (69)	130 (112)	30 (20)