

Your P.O. #: CALL UP #49  
Your Project #: R.071033.035  
Site Location: TIMBER SAMPLES-SOUTH DILDO  
Your C.O.C. #: 491999-42-01

**Attention: Tammy Delaney**

Public Works & Government Services Canada  
PO Box 4600  
10 Barter's Hill  
St. John's, NL  
A1C 5T2

**Report Date: 2015/02/06**  
Report #: R3323276  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B517608**

**Received: 2015/01/30, 09:53**

Sample Matrix: Soil  
# Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
Semivolatile Organic Compounds (TCLP) (1)	3	2015/02/04	2015/02/05	CAM SOP-00301	EPA 8270 m
TCLP - % Solids (1)	3	2015/02/03	2015/02/04	CAM SOP-00401	EPA 1311 m
TCLP - Extraction Fluid (1)	3	N/A	2015/02/04	CAM SOP-00401	EPA 1311 m
TCLP - Initial and final pH (1)	3	N/A	2015/02/04	CAM SOP-00401	EPA 1311 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Heather Macumber, Project Manager

Email: HMacumber@maxxam.ca

Phone# (902)420-0203 Ext:226

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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### RESULTS OF ANALYSES OF SOIL

Maxxam ID		ZJ0244	ZJ0245	ZJ0246		
Sampling Date		2015/01/27	2015/01/27	2015/01/27		
COC Number		491999-42-01	491999-42-01	491999-42-01		
	Units	SAMPLE #1 SOUTH DILDO	SAMPLE #2 SOUTH DILDO	SAMPLE #3 SOUTH DILDO	RDL	QC Batch
<b>Inorganics</b>						
Final pH	pH	4.98	5.00	4.98		3908026
Initial pH	pH	6.81	7.01	7.07		3908026
TCLP - % Solids	%	100	100	100	0.2	3908024
TCLP Extraction Fluid	N/A	FLUID 1	FLUID 1	FLUID 1		3908025
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

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### SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		ZJ0244	ZJ0245	ZJ0246		
Sampling Date		2015/01/27	2015/01/27	2015/01/27		
COC Number		491999-42-01	491999-42-01	491999-42-01		
	Units	SAMPLE #1 SOUTH DILDO	SAMPLE #2 SOUTH DILDO	SAMPLE #3 SOUTH DILDO	RDL	QC Batch
<b>Semivolatile Organics</b>						
Leachable Phenol	ug/L	ND	ND	ND	20	3908600
Leachable Aldicarb	ug/L	ND	ND	ND	200	3908600
Leachable Atrazine	ug/L	ND	ND	ND	40	3908600
Leachable Des-ethyl atrazine	ug/L	ND	ND	ND	40	3908600
Leachable Bendiocarb	ug/L	ND	ND	ND	80	3908600
Leachable Benzo(a)pyrene	ug/L	1.2	3.6	ND	0.80	3908600
Leachable Bromoxynil	ug/L	ND	ND	ND	40	3908600
Leachable Carbaryl	ug/L	ND	ND	ND	200	3908600
Leachable Carbofuran	ug/L	ND	ND	ND	200	3908600
Leachable Chlorpyrifos (Dursban)	ug/L	ND	ND	ND	40	3908600
Leachable m/p-Cresol	ug/L	440	46	520	20	3908600
Leachable o-Cresol	ug/L	320	55	340	20	3908600
Leachable Cresol Total	ug/L	760	100	860	20	3908600
Leachable Cyanazine (Bladex)	ug/L	ND	ND	ND	80	3908600
Leachable 2,4-D	ug/L	ND	ND	ND	40	3908600
Leachable 2,4-Dichlorophenol	ug/L	ND	ND	ND	20	3908600
Leachable Diazinon	ug/L	ND	ND	ND	40	3908600
Leachable Dicamba	ug/L	ND	ND	ND	40	3908600
Leachable Diclofop-methyl	ug/L	ND	ND	ND	40	3908600
Leachable Dimethoate	ug/L	ND	ND	ND	200	3908600
Leachable 2,4-Dinitrotoluene	ug/L	ND	ND	ND	80	3908600
Leachable Dinoseb	ug/L	ND	ND	ND	40	3908600
Leachable Hexachlorobenzene	ug/L	ND	ND	ND	80	3908600
Leachable Hexachlorobutadiene	ug/L	ND	ND	ND	80	3908600
Leachable Hexachloroethane	ug/L	ND	ND	ND	80	3908600
Leachable Malathion	ug/L	ND	ND	ND	200	3908600
Leachable Methyl parathion	ug/L	ND	ND	ND	40	3908600
Leachable Metolachlor	ug/L	ND	ND	ND	20	3908600
Leachable Metribuzin (Sencor)	ug/L	ND	ND	ND	200	3908600
Leachable Nitrobenzene	ug/L	ND	ND	ND	80	3908600
Leachable Ethyl Parathion	ug/L	ND	ND	ND	40	3908600
Leachable Pentachlorophenol	ug/L	ND	ND	ND	20	3908600
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
ND = Not detected						

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### SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		ZJ0244	ZJ0245	ZJ0246		
Sampling Date		2015/01/27	2015/01/27	2015/01/27		
COC Number		491999-42-01	491999-42-01	491999-42-01		
	Units	SAMPLE #1 SOUTH DILDO	SAMPLE #2 SOUTH DILDO	SAMPLE #3 SOUTH DILDO	RDL	QC Batch
Leachable Phorate	ug/L	ND	ND	ND	40	3908600
Leachable Picloram	ug/L	ND	ND	ND	200	3908600
Leachable Pyridine	ug/L	ND	ND	ND	80	3908600
Leachable Simazine	ug/L	ND	ND	ND	80	3908600
Leachable 2,4,5-T	ug/L	ND	ND	ND	40	3908600
Leachable 2,4,5-TP (Silvex)	ug/L	ND	ND	ND	20	3908600
Leachable Terbufos	ug/L	ND	ND	ND	28	3908600
Leachable 2,3,4,6-Tetrachlorophenol	ug/L	ND	ND	ND	20	3908600
Leachable Triallate	ug/L	ND	ND	ND	40	3908600
Leachable 2,4,5-Trichlorophenol	ug/L	ND	ND	ND	4.0	3908600
Leachable 2,4,6-Trichlorophenol	ug/L	ND	ND	ND	20	3908600
Leachable Trifluralin	ug/L	ND	ND	ND	40	3908600
<b>Surrogate Recovery (%)</b>						
Leachable 2,4,6-Tribromophenol	%	61	77	66		3908600
Leachable 2-Fluorobiphenyl	%	59	61	53		3908600
Leachable 2-Fluorophenol	%	63	68	67		3908600
Leachable D14-Terphenyl (FS)	%	74	89	79		3908600
Leachable D5-Nitrobenzene	%	68	82	73		3908600
Leachable D5-Phenol	%	28	30	28		3908600
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
ND = Not detected						

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### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.0°C
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TCLP ABN Analysis: Due to the nature of the samples, a smaller amount was used for the analysis. Detection limits were adjusted accordingly.

**Results relate only to the items tested.**

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### QUALITY ASSURANCE REPORT

QA/QC				Date				
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	Units	QC Limits
3908600	WZ	Matrix Spike	Leachable 2,4,6-Tribromophenol	2015/02/05		90	%	10 - 130
			Leachable 2-Fluorobiphenyl	2015/02/05		66	%	30 - 130
			Leachable 2-Fluorophenol	2015/02/05		57	%	10 - 130
			Leachable D14-Terphenyl (FS)	2015/02/05		99	%	30 - 130
			Leachable D5-Nitrobenzene	2015/02/05		78	%	30 - 130
			Leachable D5-Phenol	2015/02/05		27	%	10 - 130
			Leachable Phenol	2015/02/05		29 (1)	%	30 - 130
			Leachable Aldicarb	2015/02/05		107	%	30 - 130
			Leachable Atrazine	2015/02/05		106	%	30 - 130
			Leachable Des-ethyl atrazine	2015/02/05		56	%	30 - 130
			Leachable Bendiocarb	2015/02/05		97	%	30 - 130
			Leachable Benzo(a)pyrene	2015/02/05		95	%	30 - 130
			Leachable Bromoxynil	2015/02/05		101	%	10 - 130
			Leachable Carbaryl	2015/02/05		100	%	30 - 130
			Leachable Carbofuran	2015/02/05		91	%	30 - 130
			Leachable Chlorpyrifos (Dursban)	2015/02/05		105	%	30 - 130
			Leachable m/p-Cresol	2015/02/05		56	%	10 - 130
			Leachable o-Cresol	2015/02/05		66	%	10 - 130
			Leachable Cyanazine (Bladex)	2015/02/05		95	%	30 - 130
			Leachable 2,4-D	2015/02/05		78	%	10 - 130
			Leachable 2,4-Dichlorophenol	2015/02/05		73	%	10 - 130
			Leachable Diazinon	2015/02/05		93	%	30 - 130
			Leachable Dicamba	2015/02/05		66	%	10 - 130
			Leachable Diclofop-methyl	2015/02/05		98	%	30 - 130
			Leachable Dimethoate	2015/02/05		93	%	30 - 130
			Leachable 2,4-Dinitrotoluene	2015/02/05		86	%	30 - 130
			Leachable Dinoseb	2015/02/05		88	%	30 - 130
			Leachable Hexachlorobenzene	2015/02/05		91	%	30 - 130
			Leachable Hexachlorobutadiene	2015/02/05		68	%	30 - 130
			Leachable Hexachloroethane	2015/02/05		66	%	30 - 130
			Leachable Malathion	2015/02/05		81	%	30 - 130
			Leachable Methyl parathion	2015/02/05		101	%	30 - 130
			Leachable Metolachlor	2015/02/05		106	%	30 - 130
			Leachable Metribuzin (Sencor)	2015/02/05		72	%	30 - 130
			Leachable Nitrobenzene	2015/02/05		79	%	30 - 130
			Leachable Ethyl Parathion	2015/02/05		95	%	30 - 130
			Leachable Pentachlorophenol	2015/02/05		92	%	30 - 130
			Leachable Phorate	2015/02/05		92	%	30 - 130
			Leachable Picloram	2015/02/05		21	%	10 - 130
			Leachable Pyridine	2015/02/05		24	%	10 - 130
			Leachable Simazine	2015/02/05		96	%	30 - 130
			Leachable 2,4,5-T	2015/02/05		95	%	10 - 130
			Leachable 2,4,5-TP (Silvex)	2015/02/05		97	%	10 - 130
			Leachable Terbufos	2015/02/05		93	%	30 - 130
			Leachable 2,3,4,6-Tetrachlorophenol	2015/02/05		98	%	10 - 130
			Leachable Triallate	2015/02/05		103	%	30 - 130
			Leachable 2,4,5-Trichlorophenol	2015/02/05		84	%	10 - 130
			Leachable 2,4,6-Trichlorophenol	2015/02/05		78	%	10 - 130
			Leachable Trifluralin	2015/02/05		118	%	30 - 130
3908600	WZ	Spiked Blank	Leachable 2,4,6-Tribromophenol	2015/02/05		93	%	10 - 130
			Leachable 2-Fluorobiphenyl	2015/02/05		78	%	30 - 130
			Leachable 2-Fluorophenol	2015/02/05		62	%	10 - 130

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
			Leachable D14-Terphenyl (FS)	2015/02/05		98	%	30 - 130
			Leachable D5-Nitrobenzene	2015/02/05		94	%	30 - 130
			Leachable D5-Phenol	2015/02/05		33	%	10 - 130
			Leachable Phenol	2015/02/05		35	%	30 - 130
			Leachable Aldicarb	2015/02/05		108	%	30 - 130
			Leachable Atrazine	2015/02/05		105	%	30 - 130
			Leachable Des-ethyl atrazine	2015/02/05		53	%	30 - 130
			Leachable Bendiocarb	2015/02/05		96	%	30 - 130
			Leachable Benzo(a)pyrene	2015/02/05		95	%	30 - 130
			Leachable Bromoxynil	2015/02/05		104	%	10 - 130
			Leachable Carbaryl	2015/02/05		101	%	30 - 130
			Leachable Carbofuran	2015/02/05		89	%	30 - 130
			Leachable Chlorpyrifos (Dursban)	2015/02/05		105	%	30 - 130
			Leachable m/p-Cresol	2015/02/05		69	%	10 - 130
			Leachable o-Cresol	2015/02/05		81	%	10 - 130
			Leachable Cyanazine (Bladex)	2015/02/05		93	%	30 - 130
			Leachable 2,4-D	2015/02/05		83	%	10 - 130
			Leachable 2,4-Dichlorophenol	2015/02/05		87	%	10 - 130
			Leachable Diazinon	2015/02/05		93	%	30 - 130
			Leachable Dicamba	2015/02/05		70	%	10 - 130
			Leachable Diclofop-methyl	2015/02/05		97	%	30 - 130
			Leachable Dimethoate	2015/02/05		92	%	30 - 130
			Leachable 2,4-Dinitrotoluene	2015/02/05		88	%	30 - 130
			Leachable Dinoseb	2015/02/05		87	%	30 - 130
			Leachable Hexachlorobenzene	2015/02/05		95	%	30 - 130
			Leachable Hexachlorobutadiene	2015/02/05		82	%	30 - 130
			Leachable Hexachloroethane	2015/02/05		78	%	30 - 130
			Leachable Malathion	2015/02/05		80	%	30 - 130
			Leachable Methyl parathion	2015/02/05		99	%	30 - 130
			Leachable Metolachlor	2015/02/05		105	%	30 - 130
			Leachable Metribuzin (Sencor)	2015/02/05		66	%	30 - 130
			Leachable Nitrobenzene	2015/02/05		95	%	30 - 130
			Leachable Ethyl Parathion	2015/02/05		94	%	30 - 130
			Leachable Pentachlorophenol	2015/02/05		92	%	30 - 130
			Leachable Phorate	2015/02/05		94	%	30 - 130
			Leachable Picloram	2015/02/05		24	%	10 - 130
			Leachable Pyridine	2015/02/05		28	%	10 - 130
			Leachable Simazine	2015/02/05		95	%	30 - 130
			Leachable 2,4,5-T	2015/02/05		102	%	10 - 130
			Leachable 2,4,5-TP (Silvex)	2015/02/05		101	%	10 - 130
			Leachable Terbufos	2015/02/05		94	%	30 - 130
			Leachable 2,3,4,6-Tetrachlorophenol	2015/02/05		101	%	10 - 130
			Leachable Triallate	2015/02/05		104	%	30 - 130
			Leachable 2,4,5-Trichlorophenol	2015/02/05		88	%	10 - 130
			Leachable 2,4,6-Trichlorophenol	2015/02/05		89	%	10 - 130
			Leachable Trifluralin	2015/02/05		120	%	30 - 130
3908600	WZ	Method Blank	Leachable 2,4,6-Tribromophenol	2015/02/05		83	%	10 - 130
			Leachable 2-Fluorobiphenyl	2015/02/05		75	%	30 - 130
			Leachable 2-Fluorophenol	2015/02/05		58	%	10 - 130
			Leachable D14-Terphenyl (FS)	2015/02/05		90	%	30 - 130
			Leachable D5-Nitrobenzene	2015/02/05		87	%	30 - 130
			Leachable D5-Phenol	2015/02/05		32	%	10 - 130

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
			Leachable Phenol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Aldicarb	2015/02/05	ND, RDL=25		ug/L	
			Leachable Atrazine	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Des-ethyl atrazine	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Bendiocarb	2015/02/05	ND, RDL=10		ug/L	
			Leachable Benzo(a)pyrene	2015/02/05	ND, RDL=0.10		ug/L	
			Leachable Bromoxynil	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Carbaryl	2015/02/05	ND, RDL=25		ug/L	
			Leachable Carbofuran	2015/02/05	ND, RDL=25		ug/L	
			Leachable Chlorpyrifos (Dursban)	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable m/p-Cresol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable o-Cresol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Cresol Total	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Cyanazine (Bladex)	2015/02/05	ND, RDL=10		ug/L	
			Leachable 2,4-D	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable 2,4-Dichlorophenol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Diazinon	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Dicamba	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Diclofop-methyl	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Dimethoate	2015/02/05	ND, RDL=25		ug/L	
			Leachable 2,4-Dinitrotoluene	2015/02/05	ND, RDL=10		ug/L	
			Leachable Dinoseb	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Hexachlorobenzene	2015/02/05	ND, RDL=10		ug/L	
			Leachable Hexachlorobutadiene	2015/02/05	ND, RDL=10		ug/L	



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
			Leachable Hexachloroethane	2015/02/05	ND, RDL=10		ug/L	
			Leachable Malathion	2015/02/05	ND, RDL=25		ug/L	
			Leachable Methyl parathion	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Metolachlor	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Metribuzin (Sencor)	2015/02/05	ND, RDL=25		ug/L	
			Leachable Nitrobenzene	2015/02/05	ND, RDL=10		ug/L	
			Leachable Ethyl Parathion	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Pentachlorophenol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Phorate	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable Picloram	2015/02/05	ND, RDL=25		ug/L	
			Leachable Pyridine	2015/02/05	ND, RDL=10		ug/L	
			Leachable Simazine	2015/02/05	ND, RDL=10		ug/L	
			Leachable 2,4,5-T	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable 2,4,5-TP (Silvex)	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Terbufos	2015/02/05	ND, RDL=3.5		ug/L	
			Leachable 2,3,4,6-Tetrachlorophenol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Triallate	2015/02/05	ND, RDL=5.0		ug/L	
			Leachable 2,4,5-Trichlorophenol	2015/02/05	ND, RDL=0.50		ug/L	
			Leachable 2,4,6-Trichlorophenol	2015/02/05	ND, RDL=2.5		ug/L	
			Leachable Trifluralin	2015/02/05	ND, RDL=5.0		ug/L	
3908600	WZ	RPD	Leachable Benzo(a)pyrene	2015/02/05	NC		%	40
			Leachable m/p-Cresol	2015/02/05	NC		%	40
			Leachable o-Cresol	2015/02/05	NC		%	40
			Leachable Cresol Total	2015/02/05	NC		%	40
			Leachable 2,4-Dichlorophenol	2015/02/05	NC		%	40
			Leachable 2,4-Dinitrotoluene	2015/02/05	NC		%	40
			Leachable Hexachlorobenzene	2015/02/05	NC		%	40
			Leachable Hexachlorobutadiene	2015/02/05	NC		%	40
			Leachable Hexachloroethane	2015/02/05	NC		%	40
			Leachable Nitrobenzene	2015/02/05	NC		%	40

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
			Leachable Pentachlorophenol	2015/02/05	NC		%	40
			Leachable Pyridine	2015/02/05	NC		%	40
			Leachable 2,3,4,6-Tetrachlorophenol	2015/02/05	NC		%	40
			Leachable 2,4,5-Trichlorophenol	2015/02/05	NC		%	40
			Leachable 2,4,6-Trichlorophenol	2015/02/05	NC		%	40
<p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples &lt; 5x RDL).</p> <p>(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.</p>								

Maxxam Job #: B517608  
Report Date: 2015/02/06

Public Works & Government Services Canada  
Client Project #: R.071033.035  
Site Location: TIMBER SAMPLES-SOUTH DILDO  
Your P.O. #: CALL UP #49

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.