

Your Project #: VILLAGE OF TAHSIS
Your C.O.C. #: 08411437

Attention: Mark DeGagne

McElhanney Consulting Services Ltd.
1-1351 Estevan Rd
Nanaimo, BC
CANADA V9S 3Y3

Report Date: 2016/01/12
Report #: R2114287
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5B3143

Received: 2015/12/22, 15:45

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Chloride by Automated Colourimetry (1)	1	N/A	2015/12/29	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water (1)	1	N/A	2015/12/29	BBY6SOP-00026	SM 22 2510 B m
EPH in Water when PAH required (1)	1	2015/12/30	2015/12/31	BBY8SOP-00029	BCMOE EPH w 12/00 m
Nitrate + Nitrite (N) (1)	1	N/A	2015/12/24	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA (1)	1	N/A	2015/12/24	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) (1)	1	N/A	2015/12/29	BBY6SOP-00010	SM 22 4500-NO3 I m
PAH in Water by GC/MS (SIM) (1)	1	2015/12/30	2015/12/31	BBY8SOP-00021	EPA 8270d R4 m
Total LMW, HMW, Total PAH Calc (1)	1	N/A	2016/01/04	BBY WI-00033	Auto Calc
pH Water (1, 5)	1	N/A	2015/12/29	BBY6SOP-00026	SM 22 4500-H+ B m
Phenols (4-AAP) (1)	1	N/A	2015/12/29	BBY6SOP-00008	SM 22 5530 D m
Phenoxyalkyl acid Pesticides (2)	1	2016/01/06	2016/01/06	CAL SOP-00094	EPA 8151 R1 m
Sulphate by Automated Colourimetry (1)	1	N/A	2015/12/29	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue) (1)	1	2015/12/24	2015/12/29	BBY6SOP-00033	SM 22 2540 C m
EPH less PAH in Water by GC/FID (1)	1	N/A	2016/01/04	BBY WI-00033	Auto Calc
Tannin & Lignin (Total) (1)	1	N/A	2015/12/24	BRN SOP-00221 R1.0	SM-5550 B
Carbon (Total Organic) (1, 6)	1	N/A	2015/12/30	BBY6SOP-00003	SM 22 5310 C m
VOCs, VH, F1, LH in Water by HS GC/MS (1)	1	2015/12/24	2015/12/24	BBY8SOP-00009	EPA 8260c R3 m
Volatile HC-BTEX (1)	1	N/A	2015/12/29	BBY WI-00033	Auto Calc
Glyphosate Water Subcontract (3)	1	2016/01/11	2016/01/11	CAM SOP-00305	HPLC/FLD
Pesticides in Water by LCMS Subcontract (4)	1	2016/01/12	2016/01/12		
RFA Water Subcontract (4)	1	2016/01/12	2016/01/12		

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 Vancouver

(2) This test was performed by Maxxam Calgary Environmental

(3) This test was performed by Maxxam Ontario (From Burnaby)

(4) This test was performed by Maxxam Montreal (From Burnaby)

(5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

(6) TOC present in the sample should be considered as non-purgeable TOC.

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Debbie Nordbruget, Project Manager
Email: DNordbruget@maxxam.ca
Phone# (250)385-6112

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This report has been generated and distributed using a secure automated process.

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.

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NW7830	
Sampling Date		2015/12/22 09:30	
COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
Parameter			
Subcontract Parameter	N/A	ATTACHED	N/A
ANIONS			
Nitrite (N)	mg/L	<0.0050	0.0050
Calculated Parameters			
Nitrate (N)	mg/L	0.072	0.020
Misc. Inorganics			
Total Organic Carbon (C)	mg/L	<0.50	0.50
Anions			
Dissolved Sulphate (SO4)	mg/L	3.77	0.50
Dissolved Chloride (Cl)	mg/L	1.3	0.50
MISCELLANEOUS			
Tannins and Lignins	mg/L	<0.10	0.10
Nutrients			
Nitrate plus Nitrite (N)	mg/L	0.072	0.020
Misc. Organics			
Phenols	mg/L	<0.0010	0.0010
Physical Properties			
Conductivity	uS/cm	116	1.0
pH	pH	8.07	N/A
Physical Properties			
Total Dissolved Solids	mg/L	50	10
RDL = Reportable Detection Limit N/A = Not Applicable			

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NW7830	
Sampling Date		2015/12/22 09:30	
COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
Polycyclic Aromatics			
Low Molecular Weight PAH's	ug/L	<0.24	0.24
High Molecular Weight PAH's	ug/L	<0.050	0.050
Total PAH	ug/L	<0.24	0.24
Naphthalene	ug/L	<0.10	0.10
2-Methylnaphthalene	ug/L	<0.10	0.10
1-Methylnaphthalene	ug/L	<0.050	0.050
Quinoline	ug/L	<0.24	0.24
Acenaphthylene	ug/L	<0.050	0.050
Acenaphthene	ug/L	<0.050	0.050
Fluorene	ug/L	<0.050	0.050
Phenanthrene	ug/L	<0.050	0.050
Anthracene	ug/L	<0.010	0.010
Acridine	ug/L	<0.050	0.050
Fluoranthene	ug/L	<0.020	0.020
Pyrene	ug/L	<0.020	0.020
Benzo(a)anthracene	ug/L	<0.010	0.010
Chrysene	ug/L	<0.050	0.050
Benzo(b&j)fluoranthene	ug/L	<0.050	0.050
Benzo(k)fluoranthene	ug/L	<0.050	0.050
Benzo(a)pyrene	ug/L	<0.0090	0.0090
Perylene	ug/L	<0.050	0.050
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050
Dibenz(a,h)anthracene	ug/L	<0.050	0.050
Benzo(g,h,i)perylene	ug/L	<0.050	0.050
Calculated Parameters			
LEPH (C10-C19 less PAH)	mg/L	<0.20	0.20
HEPH (C19-C32 less PAH)	mg/L	<0.20	0.20
Ext. Pet. Hydrocarbon			
EPH (C10-C19)	mg/L	<0.20	0.20
EPH (C19-C32)	mg/L	<0.20	0.20
Surrogate Recovery (%)			
O-TERPHENYL (sur.)	%	88	
D10-ANTHRACENE (sur.)	%	114	
D8-ACENAPHTHYLENE (sur.)	%	115	
D8-NAPHTHALENE (sur.)	%	111	
RDL = Reportable Detection Limit			

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COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
D9-Acridine	%	104	
TERPHENYL-D14 (sur.)	%	112	
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Maxxam ID		NW7830	
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COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
Volatiles			
VPH (VH6 to 10 - BTEX)	ug/L	<300	300
Chloromethane	ug/L	<1.0	1.0
Vinyl chloride	ug/L	<0.50	0.50
Chloroethane	ug/L	<1.0	1.0
Trichlorofluoromethane	ug/L	<4.0	4.0
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	<2.0	2.0
Dichlorodifluoromethane	ug/L	<2.0	2.0
1,1-dichloroethene	ug/L	<0.50	0.50
Dichloromethane	ug/L	<2.0	2.0
trans-1,2-dichloroethene	ug/L	<1.0	1.0
1,1-dichloroethane	ug/L	<0.50	0.50
cis-1,2-dichloroethene	ug/L	<1.0	1.0
Chloroform	ug/L	<1.0	1.0
1,1,1-trichloroethane	ug/L	<0.50	0.50
1,2-dichloroethane	ug/L	<0.50	0.50
Carbon tetrachloride	ug/L	<0.50	0.50
Benzene	ug/L	<0.40	0.40
Methyl-tert-butylether (MTBE)	ug/L	<4.0	4.0
1,2-dichloropropane	ug/L	<0.50	0.50
cis-1,3-dichloropropene	ug/L	<1.0	1.0
trans-1,3-dichloropropene	ug/L	<1.0	1.0
Bromomethane	ug/L	<1.0	1.0
1,1,2-trichloroethane	ug/L	<0.50	0.50
Trichloroethene	ug/L	<0.50	0.50
Chlorodibromomethane	ug/L	<1.0	1.0
1,3-Butadiene	ug/L	<5.0	5.0
Tetrachloroethene	ug/L	<0.50	0.50
Bromodichloromethane	ug/L	<1.0	1.0
Toluene	ug/L	<0.40	0.40
Ethylbenzene	ug/L	<0.40	0.40
m & p-Xylene	ug/L	<0.40	0.40
Bromoform	ug/L	<1.0	1.0
Styrene	ug/L	<0.50	0.50
o-Xylene	ug/L	<0.40	0.40
Xylenes (Total)	ug/L	<0.40	0.40
RDL = Reportable Detection Limit			

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Maxxam ID		NW7830	
Sampling Date		2015/12/22 09:30	
COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
1,1,1,2-tetrachloroethane	ug/L	<0.50	0.50
1,1,2,2-tetrachloroethane	ug/L	<0.50	0.50
1,2-dichlorobenzene	ug/L	<0.50	0.50
1,3-dichlorobenzene	ug/L	<0.50	0.50
1,4-dichlorobenzene	ug/L	<0.50	0.50
Chlorobenzene	ug/L	<0.50	0.50
Dibromomethane	ug/L	<0.90	0.90
Bromobenzene	ug/L	<2.0	2.0
VH C6-C10	ug/L	<300	300
Surrogate Recovery (%)			
1,4-Difluorobenzene (sur.)	%	104	
4-Bromofluorobenzene (sur.)	%	91	
D4-1,2-Dichloroethane (sur.)	%	88	
RDL = Reportable Detection Limit			

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PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Maxxam ID		NW7830	
Sampling Date		2015/12/22 09:30	
COC Number		08411437	
	UNITS	COMMUNITY WELL #1	RDL
Phenoxyalkyl acid Pest.			
3,5-dichlorobenzoic acid	ug/L	<0.080	0.080
Dicamba	ug/L	<0.0050	0.0050
MCPP	ug/L	<0.080	0.080
MCPA	ug/L	<0.020	0.020
Dichlorprop	ug/L	<0.080	0.080
Bromoxynil	ug/L	<0.020	0.020
2,4-D	ug/L	<0.050	0.050
Pentachlorophenol	ug/L	<0.080	0.080
2,4,5-TP	ug/L	<0.080	0.080
2,4,5-T	ug/L	<0.080	0.080
Chloramben	ug/L	<0.080	0.080
Dinoseb (DNBP)	ug/L	<0.020	0.020
Bentazon	ug/L	<0.080	0.080
2,4-DB	ug/L	<0.080	0.080
Picloram	ug/L	<0.080	0.080
Diclofop-methyl	ug/L	<0.080	0.080
Surrogate Recovery (%)			
2,4,6-TRIBROMOPHENOL (sur.)	%	101	
RDL = Reportable Detection Limit			

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GENERAL COMMENTS

PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER) Comments

Sample NW7830-02 Phenoxyalkyl acid Pesticides: Sample extracted past method-specified hold time.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8153953	1,4-Difluorobenzene (sur.)	2015/12/24	104	70 - 130	103	70 - 130	104	%		
8153953	4-Bromofluorobenzene (sur.)	2015/12/24	103	70 - 130	103	70 - 130	91	%		
8153953	D4-1,2-Dichloroethane (sur.)	2015/12/24	94	70 - 130	93	70 - 130	89	%		
8156241	D10-ANTHRACENE (sur.)	2015/12/31	113	60 - 130	112	60 - 130	125	%		
8156241	D8-ACENAPHTHYLENE (sur.)	2015/12/31	116	50 - 130	114	50 - 130	125	%		
8156241	D8-NAPHTHALENE (sur.)	2015/12/31	111	50 - 130	108	50 - 130	120	%		
8156241	D9-Acridine	2015/12/31	106	50 - 130	104	50 - 130	113	%		
8156241	TERPHENYL-D14 (sur.)	2015/12/31	110	60 - 130	117	60 - 130	126	%		
8156243	O-TERPHENYL (sur.)	2015/12/31	100	50 - 130	97	50 - 130	89	%		
8159193	2,4,6-TRIBROMOPHENOL (sur.)	2016/01/06			96	30 - 130	88	%		
8153749	Total Dissolved Solids	2015/12/29	102	80 - 120	106	80 - 120	<10	mg/L	3.4	20
8153840	Tannins and Lignins	2015/12/24	88	80 - 120	95	80 - 120	<0.10	mg/L	NC	20
8153953	1,1,1,2-tetrachloroethane	2015/12/24	94	70 - 130	87	70 - 130	<0.50	ug/L		
8153953	1,1,1-trichloroethane	2015/12/24	97	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
8153953	1,1,2,2-tetrachloroethane	2015/12/24	92	70 - 130	87	70 - 130	<0.50	ug/L		
8153953	1,1,2Trichloro-1,2,2Trifluoroethane	2015/12/24					<2.0	ug/L		
8153953	1,1,2-trichloroethane	2015/12/24	92	70 - 130	86	70 - 130	<0.50	ug/L		
8153953	1,1-dichloroethane	2015/12/24	92	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
8153953	1,1-dichloroethene	2015/12/24	96	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
8153953	1,2-dichlorobenzene	2015/12/24	100	70 - 130	95	70 - 130	<0.50	ug/L		
8153953	1,2-dichloroethane	2015/12/24	91	70 - 130	86	70 - 130	<0.50	ug/L		
8153953	1,2-dichloropropane	2015/12/24	92	70 - 130	85	70 - 130	<0.50	ug/L		
8153953	1,3-Butadiene	2015/12/24					<5.0	ug/L		
8153953	1,3-dichlorobenzene	2015/12/24	101	70 - 130	94	70 - 130	<0.50	ug/L		
8153953	1,4-dichlorobenzene	2015/12/24	100	70 - 130	94	70 - 130	<0.50	ug/L		
8153953	Benzene	2015/12/24	93	70 - 130	88	70 - 130	<0.40	ug/L	NC	30
8153953	Bromobenzene	2015/12/24	95	70 - 130	90	70 - 130	<2.0	ug/L		
8153953	Bromodichloromethane	2015/12/24	93	70 - 130	86	70 - 130	<1.0	ug/L		
8153953	Bromoform	2015/12/24	91	70 - 130	85	70 - 130	<1.0	ug/L		
8153953	Bromomethane	2015/12/24	101	60 - 140	91	60 - 140	<1.0	ug/L		
8153953	Carbon tetrachloride	2015/12/24	98	70 - 130	92	70 - 130	<0.50	ug/L		
8153953	Chlorobenzene	2015/12/24	99	70 - 130	92	70 - 130	<0.50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

McElhanney Consulting Services Ltd.
Client Project #: VILLAGE OF TAH SIS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8153953	Chlorodibromomethane	2015/12/24	92	70 - 130	86	70 - 130	<1.0	ug/L		
8153953	Chloroethane	2015/12/24	99	60 - 140	92	60 - 140	<1.0	ug/L	NC	30
8153953	Chloroform	2015/12/24	94	70 - 130	87	70 - 130	<1.0	ug/L		
8153953	Chloromethane	2015/12/24	106	60 - 140	99	60 - 140	<1.0	ug/L	NC	30
8153953	cis-1,2-dichloroethene	2015/12/24	98	70 - 130	92	70 - 130	<1.0	ug/L	NC	30
8153953	cis-1,3-dichloropropene	2015/12/24	90	70 - 130	81	70 - 130	<1.0	ug/L		
8153953	Dibromomethane	2015/12/24	94	70 - 130	88	70 - 130	<0.90	ug/L		
8153953	Dichlorodifluoromethane	2015/12/24	133	60 - 140	124	60 - 140	<2.0	ug/L		
8153953	Dichloromethane	2015/12/24	108	70 - 130	101	70 - 130	<2.0	ug/L	NC	30
8153953	Ethylbenzene	2015/12/24	99	70 - 130	91	70 - 130	<0.40	ug/L	NC	30
8153953	m & p-Xylene	2015/12/24	96	70 - 130	88	70 - 130	<0.40	ug/L	NC	30
8153953	Methyl-tert-butylether (MTBE)	2015/12/24	96	70 - 130	90	70 - 130	<4.0	ug/L	NC	30
8153953	o-Xylene	2015/12/24	88	70 - 130	82	70 - 130	<0.40	ug/L	NC	30
8153953	Styrene	2015/12/24	90	70 - 130	83	70 - 130	<0.50	ug/L		
8153953	Tetrachloroethene	2015/12/24	98	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
8153953	Toluene	2015/12/24	94	70 - 130	88	70 - 130	<0.40	ug/L	NC	30
8153953	trans-1,2-dichloroethene	2015/12/24	89	70 - 130	83	70 - 130	<1.0	ug/L	NC	30
8153953	trans-1,3-dichloropropene	2015/12/24	78	70 - 130	70	70 - 130	<1.0	ug/L		
8153953	Trichloroethene	2015/12/24	97	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
8153953	Trichlorofluoromethane	2015/12/24	113	60 - 140	108	60 - 140	<4.0	ug/L		
8153953	VH C6-C10	2015/12/24			113	70 - 130	<300	ug/L	NC	30
8153953	Vinyl chloride	2015/12/24	105	60 - 140	97	60 - 140	<0.50	ug/L	NC	30
8153953	Xylenes (Total)	2015/12/24					<0.40	ug/L	NC	30
8154145	pH	2015/12/29			101	97 - 103			0	N/A
8154146	Conductivity	2015/12/29			100	80 - 120	<1.0	uS/cm	1.2	20
8154930	Nitrate plus Nitrite (N)	2015/12/24	NC	80 - 120	98	80 - 120	<0.020	mg/L	4.3	25
8154937	Nitrite (N)	2015/12/24	NC	80 - 120	95	80 - 120	<0.0050	mg/L	2.4	20
8155058	Phenols	2015/12/29	97	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
8156038	Dissolved Chloride (Cl)	2015/12/29	106	80 - 120	104	80 - 120	<0.50	mg/L	NC	20
8156042	Dissolved Sulphate (SO4)	2015/12/29			97	80 - 120	0.52, RDL=0.50	mg/L		
8156070	Total Organic Carbon (C)	2015/12/30	106	80 - 120	102	80 - 120	<0.50	mg/L	NC	20
8156241	2-Methylnaphthalene	2016/01/03	96	50 - 130	85	50 - 130	<0.10	ug/L	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

McElhanney Consulting Services Ltd.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8156241	Acenaphthene	2016/01/03	101	50 - 130	90	50 - 130	<0.050	ug/L	NC	40
8156241	Acenaphthylene	2016/01/03	103	50 - 130	94	50 - 130	<0.050	ug/L	NC	40
8156241	Acridine	2016/01/03	97	50 - 130	89	50 - 130	<0.050	ug/L	NC	40
8156241	Anthracene	2016/01/03	102	60 - 130	95	60 - 130	<0.010	ug/L	NC	40
8156241	Benzo(a)anthracene	2016/01/03	92	60 - 130	90	60 - 130	0.010, RDL=0.010	ug/L	NC	40
8156241	Benzo(a)pyrene	2016/01/03	67	60 - 130	91	60 - 130	<0.0090	ug/L	NC	40
8156241	Benzo(b&j)fluoranthene	2016/01/03	70	60 - 130	87	60 - 130	<0.050	ug/L	NC	40
8156241	Benzo(g,h,i)perylene	2016/01/03	35 (1)	60 - 130	91	60 - 130	<0.050	ug/L	NC	40
8156241	Benzo(k)fluoranthene	2016/01/03	66	60 - 130	86	60 - 130	<0.050	ug/L	NC	40
8156241	Chrysene	2016/01/03	94	60 - 130	93	60 - 130	<0.050	ug/L	NC	40
8156241	Dibenz(a,h)anthracene	2016/01/03	34 (1)	60 - 130	88	60 - 130	<0.050	ug/L	NC	40
8156241	Fluoranthene	2016/01/03	101	60 - 130	95	60 - 130	<0.020	ug/L	NC	40
8156241	Fluorene	2016/01/03	97	50 - 130	90	50 - 130	<0.050	ug/L	NC	40
8156241	Indeno(1,2,3-cd)pyrene	2016/01/03	36 (1)	60 - 130	91	60 - 130	<0.050	ug/L	NC	40
8156241	Naphthalene	2016/01/03	81	50 - 130	88	50 - 130	<0.10	ug/L	1.1	40
8156241	Perylene	2015/12/31	72	60 - 130	97	60 - 130	<0.050	ug/L		
8156241	Phenanthrene	2016/01/03	97	60 - 130	90	60 - 130	<0.050	ug/L	NC	40
8156241	Pyrene	2016/01/03	104	60 - 130	97	60 - 130	<0.020	ug/L	NC	40
8156241	Quinoline	2016/01/03	99	50 - 130	95	50 - 130	<0.24	ug/L	NC	40
8156243	EPH (C10-C19)	2015/12/31	76	50 - 130	81	50 - 130	<0.20	mg/L	3.0	30
8156243	EPH (C19-C32)	2015/12/31	86	50 - 130	96	50 - 130	<0.20	mg/L	NC	30
8159193	2,4,5-T	2016/01/06			90	10 - 130	<0.080	ug/L		
8159193	2,4,5-TP	2016/01/06			94	10 - 130	<0.080	ug/L		
8159193	2,4-D	2016/01/06			91	10 - 130	<0.050	ug/L		
8159193	2,4-DB	2016/01/06			87	10 - 130	<0.080	ug/L		
8159193	3,5-dichlorobenzoic acid	2016/01/06			90	10 - 130	<0.080	ug/L		
8159193	Bentazon	2016/01/06			95	10 - 130	<0.080	ug/L		
8159193	Bromoxynil	2016/01/06			106	10 - 130	<0.020	ug/L		
8159193	Chloramben	2016/01/06			42	10 - 130	<0.080	ug/L		
8159193	Dicamba	2016/01/06			86	10 - 130	<0.0050	ug/L		
8159193	Dichlorprop	2016/01/06			90	10 - 130	<0.080	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8159193	Diclofop-methyl	2016/01/06			94	10 - 130	<0.080	ug/L		
8159193	Dinoseb (DNBP)	2016/01/06			43	10 - 130	<0.020	ug/L		
8159193	MCPA	2016/01/06			81	10 - 130	<0.020	ug/L		
8159193	MCPP	2016/01/06			87	10 - 130	<0.080	ug/L		
8159193	Pentachlorophenol	2016/01/06			91	10 - 130	<0.080	ug/L		
8159193	Picloram	2016/01/06			28	10 - 130	<0.080	ug/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

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 < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

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



Andy Lu, Data Validation Coordinator



Veronica Falk, Scientific Specialist

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.