

CN - Raw Data

DOC - ISM02.3

Calibration results

Aquakem 7.2AQ1

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CHEMTECH

284 Sheffield Street,
Mountainside, NJ 07092

Reviewed by : AK

8/26/2016 9:53

Instrument ID: CN

Test CN EPA

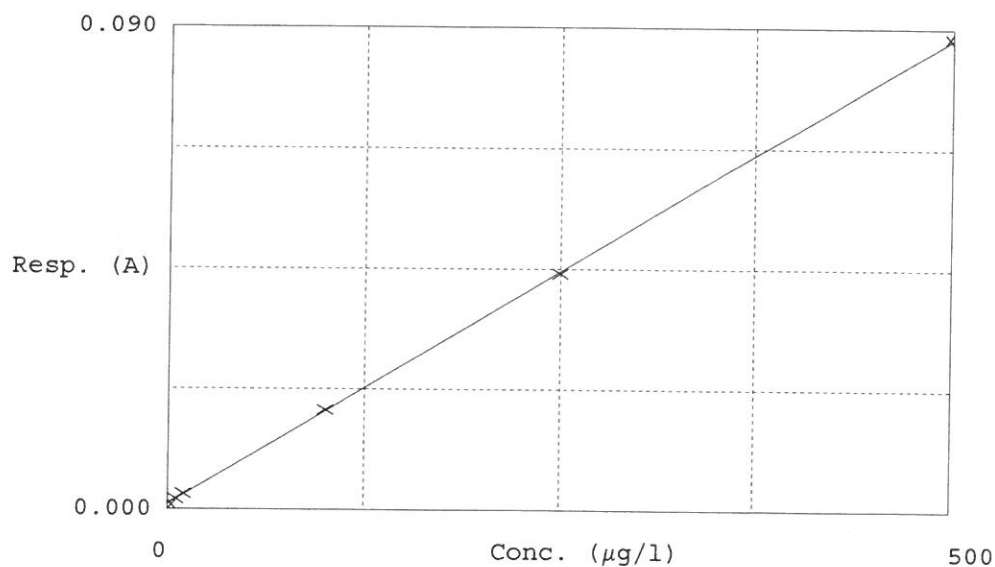
Accepted

8/26/2016 9:52

Factor 5740
Bias (y-intercept) 0.001

Coeff. of det. 0.999944

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors	Percentage
1	0.0PPBCN <u>50.0</u>	0.001	-1.5946	0.0000		
2	5.0PPBCN <u>55.0</u>	0.002	5.6924	5.0000		112 %
3	10PPBCN <u>10.0</u>	0.003	11.1667	10.0000		111 %
4	100PPBCN <u>100.0</u>	0.019	101.0704	100.0000		101 %
5	250PPBCN <u>250.0</u>	0.044	247.8189	250.0000		98 %
6	500PPBCN <u>500.0</u>	0.088	500.8462	500.0000		100 %

AK
8/26/16

Test results

Aquakem 7.2AQ1

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CHEMTECH

284 Sheffield Street,
Mountainside, NJ 07092Reviewed by : LM AK

8/26/2016 11:21

Test: CN EPA

Sample Id	Result	Dil. 1 +	Response	Errors
ICV ICV	93.574	0.0	0.017	
ICB ICB	-0.237	0.0	0.001	
CCV001 CCV001	232.581	0.0	0.041	
CCB001 CCB001	-0.769	0.0	0.001	
PBS PBS006	-1.010	0.0	0.001	
DOC SOIL-01	38.575	0.0	0.008	
DOC SOIL-02	39.427	0.0	0.008	
DOC SOIL-03	41.533	0.0	0.008	
DOC SOIL-04	39.924	0.0	0.008	
PBW PBW005	-0.475	0.0	0.001	
DOC WATER-01	40.087	0.0	0.008	
DOC WATER-02	39.235	0.0	0.008	
DOC WATER-03	38.599	0.0	0.008	
DOC WATER-04	43.374	0.0	0.009	
CCV002 CCV002	258.264	0.0	0.046	
CCB002 CCB002	2.538	0.0	0.001	

N	16
Mean	56.576
SD	77.9846
CV%	137.84

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Aquakem v. 7.2AQ1

Results from time period:

Fri Aug 26 09:51:38 2016

AK

Fri Aug 26 11:15:41 2016

Sample Id	Sam/Ctr/c/	Test short	Test type	Result	Result unit	Result date and time	Stat
S0.0	A	CN EPA	P	-1.5946	µg/l	8/26/2016 9:51:38	
S5.0	A	CN EPA	P	5.6924	µg/l	8/26/2016 9:51:39	
S10.0	A	CN EPA	P	11.1667	µg/l	8/26/2016 9:51:40	
S100.0	A	CN EPA	P	101.0704	µg/l	8/26/2016 9:51:41	
S250.0	A	CN EPA	P	247.8189	µg/l	8/26/2016 9:51:42	
S500.0	A	CN EPA	P	500.8462	µg/l	8/26/2016 9:51:43	
ICV ICV	S	CN EPA	P	93.5741	µg/l	8/26/2016 10:41:14	
ICB ICB	S	CN EPA	P	-0.2368	µg/l	8/26/2016 10:41:15	
CCV001 CCV001	S	CN EPA	P	232.5812	µg/l	8/26/2016 11:11:48	
CCB001 CCB001	S	CN EPA	P	-0.7693	µg/l	8/26/2016 11:11:49	
PBS PBS006	S	CN EPA	P	-1.0101	µg/l	8/26/2016 11:11:50	
DOC SOIL-01	S	CN EPA	P	38.5747	µg/l	8/26/2016 11:11:51	
DOC SOIL-02	S	CN EPA	P	39.4269	µg/l	8/26/2016 11:11:52	
DOC SOIL-03	S	CN EPA	P	41.5329	µg/l	8/26/2016 11:11:53	
DOC SOIL-04	S	CN EPA	P	39.9243	µg/l	8/26/2016 11:11:54	
PBW PBW005	S	CN EPA	P	-0.475	µg/l	8/26/2016 11:11:55	
DOC WATER-01	S	CN EPA	P	40.0866	µg/l	8/26/2016 11:11:56	
DOC WATER-02	S	CN EPA	P	39.2352	µg/l	8/26/2016 11:11:57	
DOC WATER-03	S	CN EPA	P	38.5992	µg/l	8/26/2016 11:11:58	
DOC WATER-04	S	CN EPA	P	43.3742	µg/l	8/26/2016 11:15:39	
CCV002 CCV002	S	CN EPA	P	258.2644	µg/l	8/26/2016 11:15:40	
CCB002 CCB002	S	CN EPA	P	2.538	µg/l	8/26/2016 11:15:41	

WET-CHEM PREPARATION WORKSHEET

Method# ISM 02.3 Project#: DOC Hot plate temp: 126 °C
 Initial Volume/Weight 50.0 (g/mL) Time:- 13:00 → 14:30 + 15 min cool down
 Balance Check: (0.1g, 10g): — Final Volume 50.0 ml Distillation date: 8/25/2016
 Analyst Signature: [Signature] Supervisor Signature [Signature] Date 8/26/16

Standard Name	mls used	STD REF# from Log	Chemical Name	ml used	LOT#
ICV	0.5 ml	W1539	0.25 N Sodium Hydroxide	50.0 ml	WP48867
			50% Con. Sulfuric Acid	5.0 ml	WP48853
			5% Magnesium chloride	2.0 ml	WP48555

Midi distillation.

Lab Sample Number	Client Sample Number	Matrix Water, soil, leachate	Sample WT. (g)/ Vol. (mL)	Comments
S0	S0	Water	50.0	WP49341
S5.0	S5.0	Water	50.0	WP49340
S10.0	S10.0	Water	50.0	WP49334
S100.0	S100.0	Water	50.0	WP49333
S250.0	S250.0	Water	50.0	WP49332
S500.0	S500.0	Water	50.0	WP49331
ICV	ICV	Water	50.0	WP49342
ICB	ICB	Water	50.0	WP48867 X5 WP48867 8/26/16
CCV	CCV	Water	50.0	WP49343
CCB	CCB	Water	50.0	WP48867
PB W005	PB W005	Water	50.0	4ml of WP49331
DOC-Water-1	DOC-Water-1	Water	50.0	4ml of 49331
DOC-Water-2	DOC-Water-2	Water	50.0	4ml of 49331
DOC-Water-3	DOC-Water-3	Water	50.0	4ml of 49331
DOC-Water-4	DOC-Water-4	Water	50.0	4ml of 49331

WET-CHEM PREPARATION WORKSHEET

Method# ISM02.3 Project#: DOC Hot plate temp: 126 °C
 Initial Volume/Weight 50.0 (g/mL) Time:- 13:00 → 14:30 + 15min cool down
 Balance Check: (0.1g, 10g): 0.10 - 10.00 Final Volume 50.0ml Distillation date: 8/25/2016
 Analyst Signature: [Signature] Supervisor Signature [Signature] Date 8/26/16

Standard Name	mls used	STD REF# from Log	Chemical Name	ml used	LOT#
ICV	0.5ml	W1539	0.25M Sodium Hydroxide	50.0ml	WP48867
			50% Con. Sulfuric Acid	5.0ml	WP48853
			5M Magnesium chloride	2.0ml	WP48555

Midi distillation

Lab Sample Number	Client Sample Number	Matrix Water, soil, leachate	Sample WT. (g)/ Vol. (mL)	Comments
S0	S0	water	50.0ml	WP49341
S5.0	S5.0	water	50.0ml	WP49340
S10.0	S10.0	water	50.0ml	WP49339
S100.0	S100.0	water	50.0ml	WP49333
S250.0	S250.0	water	50.0ml	WP49332
S500.0	S500.0	water	50.0ml	WP49331
ICV	ICV	water	50.0ml	WP49342
ICB	ICB	water	50.0ml	WP48867
CCV	CCV	water	50.0ml	WP49343
CCB	CCB	water	50.0ml	WP48867
PBS DO6	PBS006	soil	1.00g	4ml of 49331
DOC-soil-1	DOC-soil-1	soil	1.00g	4ml of 49331
DOC-soil-2	DOC-soil-2	soil	1.00g	4ml of 49331
DOC-soil-3	DOC-soil-3	soil	1.00g	4ml of 49331
DOC-soil-4	DOC-soil-4	soil	1.00g	4ml of 49331