

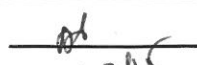
Chemtech Consulting Group

Analytical Review Report

Date Printed : 9/22/15

Analyst : HM

Data File : lb77920.csv

Approved By : 

Approved Date : 9/24/15

Worksheet # :

M9012 A-B - Total, Ammoniable & Reactive cyanide - 15

Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis				Line 1
Parameter			PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Cyanide												
0.0PPBCN	0.0PPBCN				W	9/21/15						
Cyanide		PASS	-0.032		-0.000						mg/L	
5.0PPBCN	5.0PPBCN				W	9/21/15						
Cyanide		PASS	5.590		0.006						mg/L	
10PPBCN	10PPBCN				W	9/21/15						
Cyanide		PASS	10.501		0.011						mg/L	
50PPBCN	50PPBCN				W	9/21/15						
Cyanide		PASS	48.572		0.049						mg/L	
100PPBCN	100PPBCN				W	9/21/15						
Cyanide		PASS	100.754		0.101						mg/L	
250PPBCN	250PPBCN				W	9/21/15						
Cyanide		PASS	249.280		0.249						mg/L	
500PPBCN	500PPBCN				W	9/21/15						
Cyanide		PASS	500.336		0.500						mg/L	
LOW	LOW				W	9/21/15						
Cyanide		PASS	10.230		0.010						mg/L	
HIGH	HIGH				W	9/21/15						
Cyanide		PASS	517.217		0.517						mg/L	
ICV1	ICV1				W	9/21/15						
Cyanide		PASS	104.806		0.11	110.0	85	115			mg/L	
ICB1	ICB1				W	9/21/15						
Cyanide		PASS	1.715		0.002			+/-0.0025			mg/L	
CCV1	CCV1				W	9/21/15						
Cyanide		PASS	236.550		0.24	96.0	90	110			mg/L	
CCB1	CCB1				W	9/21/15						
Cyanide		PASS	1.268		0.001			+/-0.0025			mg/L	
PB85638BSS	PB85638BSS				S	9/21/15						
Cyanide		PASS	96.072		4.41	88.0	80.00	110.00			mg/Kg	
G3707-03	LOD-SOIL2015-01			1	S	9/21/15						
Cyanide		PASS	2.061		0.100						mg/Kg	
G3707-04	LOQ-SOIL2015-02				S	9/21/15						
Cyanide		PASS	10.441		0.49	98.0	50.00	150.00			mg/Kg	
G3708-01	MGP209BR-15-17			1	S	9/21/15						
Cyanide		PASS	29.666		1.11						mg/Kg	
G3708-02	MGP2090BR-15-17			1	S	9/21/15						
Cyanide		PASS	13.388		0.707						mg/Kg	
G3708-03	MGP209BR-29-30			1	S	9/21/15						
Cyanide		PASS	2.588		0.141						mg/Kg	
G3708-03D	MGP209BR-29-30D			1	S	9/21/15						
Cyanide		PASS	2.509		0.136				3.6	20	mg/Kg	

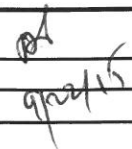
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Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep Method	Analysis Method				Line 1
Parameter		PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Cyanide											
G3708-04S	MGP209BR-29-30S		1	S	9/21/15						
Cyanide	PASS	37.744		1.980	88.0	48	158			mg/Kg	
G3708-05SD	MGP209BR-29-30SD		1	S	9/21/15						
Cyanide	PASS	37.790		2.030	88.0	48	158	2.5	20	mg/Kg	
CCV2	CCV2			W	9/21/15						
Cyanide	PASS	239.940		0.24	96.0	90	110			mg/L	
CCB2	CCB2			W	9/21/15						
Cyanide	PASS	1.183		0.001			+/-0.0025			mg/L	
G3708-08	MGP201-19-20		1	S	9/21/15						
Cyanide	PASS	20.698		1.40						mg/Kg	
G3708-09	MGP201-36-38		1	S	9/21/15						
Cyanide	PASS	1.218		0.080						mg/Kg	
G3708-10	MGP201-40-41		1	S	9/21/15						
Cyanide	PASS	1.497		0.080						mg/Kg	
CCV3	CCV3			W	9/21/15						
Cyanide	PASS	244.815		0.25	100.0	90	110			mg/L	
CCB3	CCB3			W	9/21/15						
Cyanide	PASS	1.457		0.001			+/-0.0025			mg/L	
PB85638BLS	PB85638BLS			S	9/21/15						
Cyanide	PASS	1.387		0.069			+/-0.0330			mg/Kg	
CCV4	CCV4			W	9/21/15						
Cyanide	PASS	259.064		0.26	104.0	90	110			mg/L	
CCB4	CCB4			W	9/21/15						
Cyanide	PASS	1.264		0.001			+/-0.0025			mg/L	

LB77920

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/21/2015 13:42

Test: Total CN

Sample Id	<i>Hyd</i> Result	Dil. 1 +	Response	Errors
CCV1	236.550	0.0	0.213	
CCB1	1.268	0.0	0.004	
PB85638BSS	96.072	0.0	0.089	
G3707-03	2.061	0.0	0.005	
G3707-04	10.442	0.0	0.012	
G3708-01	29.666	0.0	0.030	
G3708-02	13.388	0.0	0.015	
G3708-03	2.588	0.0	0.005	
G3708-03D	2.509	0.0	0.005	
G3708-04S	37.744	0.0	0.037	
G3708-05SD	37.790	0.0	0.037	
CCV2	239.940	0.0	0.216	
CCB2	1.183	0.0	0.004	
G3708-08	20.698	0.0	0.022	
G3708-09	1.218	0.0	0.004	
G3708-10	1.497	0.0	0.005	
CCV3	244.815	0.0	0.221	
CCB3	1.457	0.0	0.004	
PB85638BLS	1.386	0.0	0.004	
CCV 24	259.064	0.0	0.233	
CCB 24	1.264	0.0	0.004	

9/21/15 HM {
N 21
Mean 59.171
SD 95.0679
CV% 160.67

Aquakem v. 7.2AQ1

Results from time period:

Mon Sep 21 09:49:17 2015

Mon Sep 21 13:08:48 2015

M

Sample Id	Sam/Ctr/c/	Test short	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	-0.0324	µg/l	9/21/2015 9:49:17	
5.0PPBCN	A	Total CN	P	5.5896	µg/l	9/21/2015 9:49:18	
10PPBCN	A	Total CN	P	10.5007	µg/l	9/21/2015 9:49:19	
50PPBCN	A	Total CN	P	48.5716	µg/l	9/21/2015 9:49:20	
100PPBCN	A	Total CN	P	100.7543	µg/l	9/21/2015 9:49:21	
250PPBCN	A	Total CN	P	249.2801	µg/l	9/21/2015 9:49:22	
500PPBCN	A	Total CN	P	500.336	µg/l	9/21/2015 9:49:23	
LOW	S	Total CN	P	10.2297	µg/l	9/21/2015 11:06:53	
HIGH	S	Total CN	P	517.2168	µg/l	9/21/2015 11:06:54	
ICV1	S	Total CN	P	104.806	µg/l	9/21/2015 11:06:55	
ICB1	S	Total CN	P	1.7155	µg/l	9/21/2015 11:06:56	
CCV1	S	Total CN	P	236.5496	µg/l	9/21/2015 12:03:49	
CCB1	S	Total CN	P	1.2681	µg/l	9/21/2015 12:03:50	
PB85638BSS	S	Total CN	P	96.0718	µg/l	9/21/2015 12:03:52	
G3707-03	S	Total CN	P	2.0614	µg/l	9/21/2015 12:03:53	
G3707-04	S	Total CN	P	10.4415	µg/l	9/21/2015 12:03:54	
G3708-01	S	Total CN	P	29.6658	µg/l	9/21/2015 12:03:55	
G3708-02	S	Total CN	P	13.3876	µg/l	9/21/2015 12:03:56	
G3708-03	S	Total CN	P	2.5881	µg/l	9/21/2015 12:03:57	
G3708-03D	S	Total CN	P	2.5094	µg/l	9/21/2015 12:03:58	
G3708-04S	S	Total CN	P	37.7441	µg/l	9/21/2015 12:03:59	
G3708-05SD	S	Total CN	P	37.7899	µg/l	9/21/2015 12:11:24	
CCV2	S	Total CN	P	239.9402	µg/l	9/21/2015 12:11:25	
CCB2	S	Total CN	P	1.1825	µg/l	9/21/2015 12:11:26	
G3708-08	S	Total CN	P	20.6979	µg/l	9/21/2015 12:11:27	
G3708-09	S	Total CN	P	1.2182	µg/l	9/21/2015 12:11:28	
G3708-10	S	Total CN	P	1.4967	µg/l	9/21/2015 12:11:29	
CCV3	S	Total CN	P	244.8153	µg/l	9/21/2015 12:11:30	
CCB3	S	Total CN	P	1.4567	µg/l	9/21/2015 12:11:31	
PB85638BLS	S	Total CN	P	1.3865	µg/l	9/21/2015 12:11:32	
CCV4	S	Total CN	P	259.0636	µg/l	9/21/2015 12:33:05	
CCB4	S	Total CN	P	1.2639	µg/l	9/21/2015 13:08:48	

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/21/2015 11:14

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
LOW	10.230	0.0	0.012	
HIGH	517.217	0.0	0.463	Test limit high
ICV1	104.806	0.0	0.096	
ICB1	1.715	0.0	0.005	

N	4
Mean	158.492
SD	243.6707
CV%	153.74

CHEMTECH
 284 Sheffield Street,
 Mountainside, NJ 07092
 Reviewed by : MM

9/21/2015 9:58

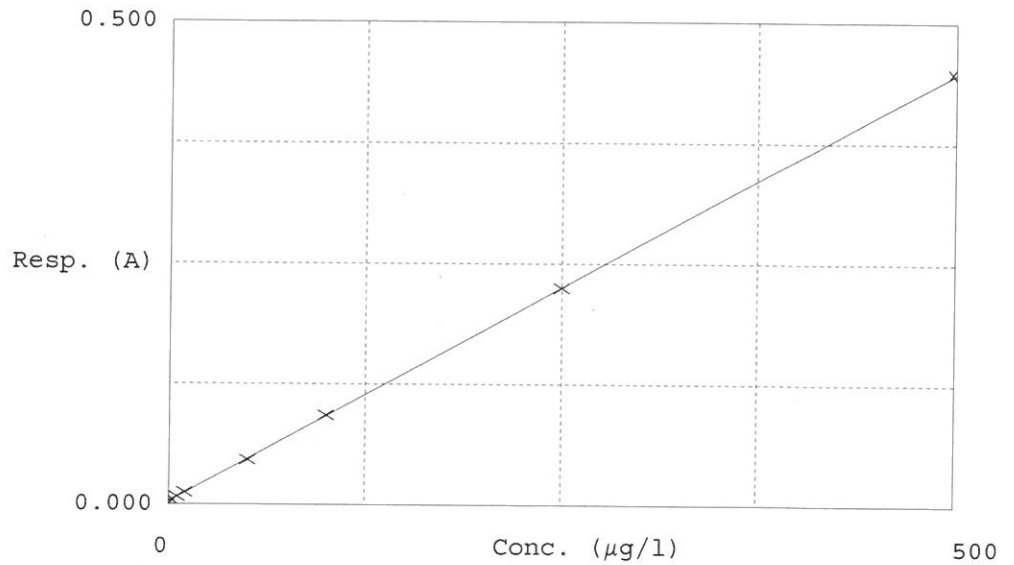
Test Total CN

Accepted 9/21/2015 9:58

Factor 1125
 Bias 0.003

Coeff. of det. 0.999981

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.003	-0.0324	0.0000	
2	5.0PPBCN	0.008	5.5896	5.0000	
3	10PPBCN	0.013	10.5007	10.0000	
4	50PPBCN	0.046	48.5716	50.0000	
5	100PPBCN	0.093	100.7543	100.0000	
6	250PPBCN	0.225	249.2801	250.0000	
7	500PPBCN	0.448	500.3360	500.0000	