



Am Test Inc.
13600 NE 126TH PL
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Kirkland, WA 98034
(425) 885-1664

Professional
Analytical
Services

Jun 14 2013
HQHometek/HydroCare
3670-3 West Oceanside RD
Oceanside, NY 11572
Attention: Larry Meek

Dear Larry Meek:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
Source	Water	12-A016638	TTHM, CONV, MIN, Hg-CV, MET
D2	Water	12-A016639	TTHM, CONV, MIN, Hg-CV, MET
D4	Water	12-A016640	TTHM, CONV, MIN, Hg-CV, MET
D6	Water	12-A016641	TTHM, CONV, MIN, Hg-CV, MET

Your samples were received on Friday, November 2, 2012. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Method Detection Limits (MDL's), as opposed to Practical Quantitation Limits (PQL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,


Aaron W. Young
Laboratory Manager

BACT = Bacteriological
CONV = Conventionals

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

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 www.amtestlab.com



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ANALYSIS REPORT

HQHometek/HydroCare
 3670-3 West Oceanside RD
 Oceanside, NY 11572
 Attention: Larry Meek
 All results reported on an as received basis.

Date Received: 11/02/12
 Date Reported: 6/14/13

AMTEST Identification Number 12-A016638
Client Identification Source
Sampling Date 11/02/12, 11:00

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chlorine Residual	1.09	mg/l		0.1	EPA 330.5	EB	11/02/12

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Fluoride	4.90	mg/l		0.05	EPA 300.0	MO	11/01/12

ICP/MS Metals 200.8

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Arsenic	61.7	ug/L		0.02	EPA 200.8	CG	11/06/12
Lead	406.	ug/L		0.05	EPA 200.8	CG	11/06/12

Total Metals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Mercury	0.00690	mg/l		0.00002	EPA 245.1	SS	11/13/12

Total Trihalomethanes

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloroform	573.	ug/L		0.25	EPA 524.2	NLN	11/05/12
Chlorodibromomethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromoform	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromodichloromethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Trihalomethane Total	573.	ug/L		0.5	EPA 524.2	NLN	11/05/12

TTHM Surrogates

ANALYTE	% RECOVERY	LIMITS
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TTHM Surrogates continued...

ANALYTE	% RECOVERY	LIMITS
Bromofluorobenzene	96.6 %	70.0 - 130.

AMTEST Identification Number 12-A016639
Client Identification D2
Sampling Date 11/02/12, 11:00

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chlorine Residual	< 0.1	mg/l		0.1	EPA 330.5	EB	11/02/12

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Fluoride	0.49	mg/l		0.05	EPA 300.0	MO	11/01/12

ICP/MS Metals 200.8

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Arsenic	26.8	ug/L		0.02	EPA 200.8	CG	11/06/12
Lead	130.	ug/L		0.05	EPA 200.8	CG	11/06/12

Total Metals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Mercury	0.00080	mg/l		0.00002	EPA 245.1	SS	11/13/12

Total Trihalomethanes

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloroform	62.9	ug/L		0.25	EPA 524.2	NLN	11/05/12
Chlorodibromomethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromoform	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromodichloromethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Trihalomethane Total	62.9	ug/L		0.5	EPA 524.2	NLN	11/05/12

TTHM Surrogates

ANALYTE	% RECOVERY	LIMITS
Bromofluorobenzene	104. %	70.0 - 130.

AMTEST Identification Number 12-A016640
Client Identification D4
Sampling Date 11/02/12, 11:00

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chlorine Residual	< 0.1	mg/l		0.1	EPA 330.5	EB	11/02/12

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Fluoride	0.36	mg/l		0.05	EPA 300.0	MO	11/01/12

ICP/MS Metals 200.8

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Arsenic	26.1	ug/L		0.02	EPA 200.8	CG	11/06/12
Lead	131.	ug/L		0.05	EPA 200.8	CG	11/06/12

Total Metals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Mercury	0.00060	mg/l		0.00002	EPA 245.1	SS	11/13/12

Total Trihalomethanes

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloroform	109.	ug/L		0.25	EPA 524.2	NLN	11/06/12
Chlorodibromomethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromoform	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromodichloromethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Trihalomethane Total	109.	ug/L		0.5	EPA 524.2	NLN	11/06/12

TTHM Surrogates

ANALYTE	% RECOVERY	LIMITS
Bromofluorobenzene	97.9 %	70.0 - 130.

AMTEST Identification Number 12-A016641
Client Identification D6
Sampling Date 11/02/12, 11:00

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chlorine Residual	< 0.1	mg/l		0.1	EPA 330.5	EB	11/02/12

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Fluoride	2.40	mg/l		0.05	EPA 300.0	MO	11/01/12

ICP/MS Metals 200.8

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Arsenic	41.2	ug/L		0.02	EPA 200.8	CG	11/06/12
Lead	228.	ug/L		0.05	EPA 200.8	CG	11/06/12

Total Metals

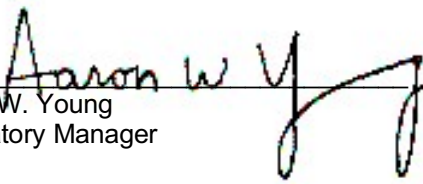
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Mercury	0.00120	mg/l		0.00002	EPA 245.1	SS	11/13/12

Total Trihalomethanes

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloroform	354.	ug/L		0.25	EPA 524.2	NLN	11/05/12
Chlorodibromomethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromoform	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Bromodichloromethane	< 0.5	ug/L		0.5	EPA 524.2	NLN	11/05/12
Trihalomethane Total	354.	ug/L		0.5	EPA 524.2	NLN	11/05/12

TTHM Surrogates

ANALYTE	% RECOVERY	LIMITS
Bromofluorobenzene	95.5 %	70.0 - 130.



Aaron W. Young
Laboratory Manager

QC Summary for sample numbers: 12-A016638 to 12-A016641

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
12-A016644	Chlorine Residual	mg/l	< 0.1	< 0.1	
12-A016644	Fluoride	mg/l	4.80	4.90	2.1
12-A016644	Mercury	mg/l	0.00320	0.00320	0.00
12-A016845	Mercury	mg/l	< 0.00005	< 0.00005	

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
12-A016644	Fluoride	mg/l	4.80	5.80	1.00	100.00 %
12-A016644	Mercury	mg/l	0.00320	0.00720	0.00500	80.00 %
12-A016845	Mercury	mg/l	< 0.00005	2.51	2.50	100.40 %
Blank	Chloroform	ug/L	< 0.25	12.3	10.0	123.00 %
Blank	Chloroform	ug/L	< 0.25	10.2	10.0	102.00 %
Blank	Chlorodibromomethane	ug/L	< 0.5	12.1	10.0	121.00 %
Blank	Bromoform	ug/L	< 0.5	12.	10.	120.00 %
Blank	Bromodichloromethane	ug/L	< 0.5	12.	10.	120.00 %
Blank	Trihalomethane Total	ug/L	< 0.5	48.4	40.0	121.00 %
Blank	Trihalomethane Total	ug/L	< 0.5	40.4	40.0	101.00 %
12-A016644	Arsenic	ug/L	38.9	228.	200.	94.55 %
12-A016644	Arsenic	ug/L	38.9	229.	200.	95.05 %
12-A016644	Lead	ug/L	219.	412.	200.	96.50 %
12-A016644	Lead	ug/L	219.	418.	200.	99.50 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Arsenic	ug/L	228.	229.	0.44
Spike	Lead	ug/L	412.	418.	1.4

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Chlorine Residual	mg/l	0.50	0.50	100. %
Fluoride	mg/l	1.00	1.00	100. %
Mercury	mg/l	2.00	2.06	103. %
Mercury	mg/l	2.00	2.05	102. %
Arsenic	ug/L	25.0	24.8	99.2 %
Lead	ug/L	25.0	25.0	100. %

BLANKS

ANALYTE	UNITS	RESULT
Chlorine Residual	mg/l	< 0.1
Fluoride	mg/l	< 0.2
Mercury	mg/l	< 0.00005

BLANKS continued....

ANALYTE	UNITS	RESULT
Mercury	mg/l	< 0.00005
Chloroform	ug/L	< 0.25
Chloroform	ug/L	< 0.25
Chlorodibromomethane	ug/L	< 0.5
Bromoform	ug/L	< 0.5
Bromodichloromethane	ug/L	< 0.5
Bromofluorobenzene	%	98.1
Bromofluorobenzene	%	96.8
Trihalomethane Total	ug/L	< 0.5
Trihalomethane Total	ug/L	< 0.5
Arsenic	ug/L	< 0.02
Lead	ug/L	< 0.05