



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 271388

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	713841		713842		713843		713844		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.005	0.002	0.006	0.002	0.005	0.002	0.006	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	713845		713846		713847		713848		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.011	0.002	0.0091	0.002	0.004 [0.005]	0.002	0.004	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	713849		713850		713851		713852		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.011	0.002	0.0092	0.002	0.0085	0.002	0.0205	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	713853		713854		713855		713856		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0099	0.002	0.01	0.002	0.01	0.002	0.0072	0.002	mg/L

Sample Description	DH9		
Lab ID	713857		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.005	0.002	mg/L



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QUALITY CONTROL DATA

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General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	0	20	20160429.R23.2A

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.002	0.005	20160429.R23.2A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0487	0.06	20160429.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.18	0.213	0.22	20160429.R23.2A
Total Phosphorus (as P)	0.004	mg/L	70.3	78.1	93.3	20160429.R23.2A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	110	125	20160429.R23.2A



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Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	713849	TP Water	20160429.R23.2A	
DH2	713850	TP Water	20160429.R23.2A	
DH3	713851	TP Water	20160429.R23.2A	
DH4	713852	TP Water	20160429.R23.2A	
DH5	713853	TP Water	20160429.R23.2A	
DH6	713854	TP Water	20160429.R23.2A	
DH7	713855	TP Water	20160429.R23.2A	
DH8	713856	TP Water	20160429.R23.2A	
DH9	713857	TP Water	20160429.R23.2A	
PS1	713841	TP Water	20160429.R23.2A	
PS2	713842	TP Water	20160429.R23.2A	
PS3	713843	TP Water	20160429.R23.2A	
PS4	713844	TP Water	20160429.R23.2A	
PS5	713845	TP Water	20160429.R23.2A	
PS6	713846	TP Water	20160429.R23.2A	
PS7	713847	TP Water	20160429.R23.2A	
PS7	713847r	TP Water	20160429.R23.2A	
PS8	713848	TP Water	20160429.R23.2A	



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Work Order Number: 271613

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	714509		714510		714511		714512		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0063	0.002	0.0076	0.002	0.004	0.002	0.0071	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	714513		714514		714515		714516		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0067 [0.0063]	0.002	0.0063	0.002	0.003	0.002	0.003	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	714517		714518		714519		714520		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.01	0.002	0.0077	0.002	0.0086	0.002	0.015	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	714521		714522		714523		714524		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0091	0.002	0.0094	0.002	0.0077	0.002	0.005	0.002	mg/L

Sample Description	DH9		
Lab ID	714525		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	mg/L



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QUALITY CONTROL DATA

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General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	0	20	20160503.R23.2A

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.004	0.005	20160503.R23.2A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0457	0.06	20160503.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.18	0.195	0.22	20160503.R23.2A
Total Phosphorus (as P)	0.004	mg/L	70.3	71.6	93.3	20160503.R23.2A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	100	125	20160503.R23.2A



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Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	714517	TP Water	20160503.R23.2A	
DH2	714518	TP Water	20160503.R23.2A	
DH3	714519	TP Water	20160503.R23.2A	
DH4	714520	TP Water	20160503.R23.2A	
DH5	714521	TP Water	20160503.R23.2A	
DH6	714522	TP Water	20160503.R23.2A	
DH7	714523	TP Water	20160503.R23.2A	
DH8	714524	TP Water	20160503.R23.2A	
DH9	714525	TP Water	20160503.R23.2A	
PS1	714509	TP Water	20160503.R23.2A	
PS2	714510	TP Water	20160503.R23.2A	
PS3	714511	TP Water	20160503.R23.2A	
PS4	714512	TP Water	20160503.R23.2A	
PS5	714513	TP Water	20160503.R23.2A	
PS5	714513r	TP Water	20160503.R23.2A	
PS6	714514	TP Water	20160503.R23.2A	
PS7	714515	TP Water	20160503.R23.2A	
PS8	714516	TP Water	20160503.R23.2A	



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Aqua-Cage Fisheries

Work Order Number: 272661

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	717179		717180		717181		717182		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	0.0083	0.002	0.0083	0.002	0.0072	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	717183		717184		717185		717186		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0061	0.002	0.0066	0.002	0.0083	0.002	0.004	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	717187		717188		717189		717190		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.006	0.002	0.005	0.002	0.0081	0.002	0.0074	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	717191		717192		717193		717194		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0076	0.002	0.0071	0.002	0.0074	0.002	0.005	0.002	mg/L

Sample Description	DH9		
Lab ID	717195		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.004 [0.005]	0.002	mg/L



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Quality Control: All associated Quality Control data is available on request.

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QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



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QUALITY CONTROL DATA

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General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	N/A	20	20160513.R23.2A
Total Phosphorus (as P)	N/A	%	0	N/A	20	20160516.R23.2A
Total Phosphorus (as P)	N/A	%	0	N/A	20	20160519.R23.2B

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.005	20160513.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.005	20160516.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.005	20160519.R23.2B

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.045	0.06	20160516.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0472	0.06	20160513.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0478	0.06	20160519.R23.2B
Total Phosphorus (as P)	0.002	mg/L	0.18	0.204	0.22	20160513.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.18	0.204	0.22	20160516.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.18	0.213	0.22	20160519.R23.2B
Total Phosphorus (as P)	0.002	mg/L	70.3	75.5	93.3	20160513.R23.2A
Total Phosphorus (as P)	0.004	mg/L	70.3	71.8	93.3	20160516.R23.2A
Total Phosphorus (as P)	0.004	mg/L	70.3	83.8	93.3	20160519.R23.2B

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	107	125	20160513.R23.2A
Total Phosphorus (as P)	N/A	% Rec	75	109	125	20160516.R23.2A
Total Phosphorus (as P)	N/A	% Rec	75	109	125	20160519.R23.2B



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Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	717187	TP Water	20160516.R23.2A	
DH2	717188	TP Water	20160516.R23.2A	
DH3	717189	TP Water	20160516.R23.2A	
DH4	717190	TP Water	20160516.R23.2A	
DH5	717191	TP Water	20160516.R23.2A	
DH6	717192	TP Water	20160516.R23.2A	
DH7	717193	TP Water	20160516.R23.2A	
DH8	717194	TP Water	20160516.R23.2A	
DH9	717195	TP Water	20160513.R23.2A	
DH9	717195r	TP Water	20160513.R23.2A	
PS1	717179	TP Water	20160519.R23.2B	
PS2	717180	TP Water	20160513.R23.2A	
PS3	717181	TP Water	20160516.R23.2A	
PS4	717182	TP Water	20160516.R23.2A	
PS5	717183	TP Water	20160516.R23.2A	
PS6	717184	TP Water	20160516.R23.2A	
PS7	717185	TP Water	20160516.R23.2A	
PS8	717186	TP Water	20160516.R23.2A	



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Aqua-Cage Fisheries

Work Order Number: 274133

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	720884		720885		720886		720887		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.01	0.002	0.011	0.002	0.012	0.002	0.013	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	720888		720889		720890		720891		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.013	0.002	0.012	0.002	0.0087	0.002	0.0079	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	720892		720893		720894		720895		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.013	0.002	0.013	0.002	0.012	0.002	0.014	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	720896		720897		720898		720899		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.014	0.002	0.011	0.002	0.011	0.002	0.008	0.002	mg/L

Sample Description	DH9		
Lab ID	720900		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.0091	0.002	mg/L



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QUALITY CONTROL DATA

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General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	mg/L	0	0	20	20160531.S23.4D

Method Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.0077	0.01	20160531.S23.4D

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0475	0.06	20160531.S23.4D
Total Phosphorus (as P)	0.002	mg/L	0.16	0.187	0.24	20160531.S23.4D

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	101	125	20160531.S23.4D



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Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	720892	A23-TP Water	20160531.S23.4D	
DH2	720893	A23-TP Water	20160531.S23.4D	
DH3	720894	A23-TP Water	20160531.S23.4D	
DH4	720895	A23-TP Water	20160531.S23.4D	
DH5	720896	A23-TP Water	20160531.S23.4D	
DH6	720897	A23-TP Water	20160531.S23.4D	
DH7	720898	A23-TP Water	20160531.S23.4D	
DH8	720899	A23-TP Water	20160531.S23.4D	
DH9	720900	A23-TP Water	20160531.S23.4D	
PS1	720884	A23-TP Water	20160531.S23.4D	
PS2	720885	A23-TP Water	20160531.S23.4D	
PS3	720886	A23-TP Water	20160531.S23.4D	
PS4	720887	A23-TP Water	20160531.S23.4D	
PS5	720888	A23-TP Water	20160531.S23.4D	
PS6	720889	A23-TP Water	20160531.S23.4D	
PS7	720890	A23-TP Water	20160531.S23.4D	
PS8	720891	A23-TP Water	20160531.S23.4D	



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Aqua-Cage Fisheries

Work Order Number: 275907

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	726120		726121		726122		726123		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.013	0.002	0.014	0.002	0.015	0.002	0.012	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	726124		726125		726126		726127		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.012	0.002	0.011	0.002	0.012	0.002	0.005	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	726128		726129		726130		726131		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.014	0.002	0.013	0.002	0.0098	0.002	0.012	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	726132		726133		726134		726135		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.01	0.002	0.0093	0.002	0.011	0.002	0.005	0.002	mg/L

Sample Description	DH9		
Lab ID	726136		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.0082	0.002	mg/L



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QUALITY CONTROL DATA

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General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	mg/L	0	N/A	20	20160616.S23.4A

Method Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.004	0.01	20160616.S23.4A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0422	0.06	20160616.S23.4A
Total Phosphorus (as P)	0.002	mg/L	0.16	0.185	0.24	20160616.S23.4A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	101	125	20160616.S23.4A



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Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	726128	A23-TP Water	20160616.S23.4A	
DH2	726129	A23-TP Water	20160616.S23.4A	
DH3	726130	A23-TP Water	20160616.S23.4A	
DH4	726131	A23-TP Water	20160616.S23.4A	
DH5	726132	A23-TP Water	20160616.S23.4A	
DH6	726133	A23-TP Water	20160616.S23.4A	
DH7	726134	A23-TP Water	20160616.S23.4A	
DH8	726135	A23-TP Water	20160616.S23.4A	
DH9	726136	A23-TP Water	20160616.S23.4A	
PS1	726120	A23-TP Water	20160616.S23.4A	
PS2	726121	A23-TP Water	20160616.S23.4A	
PS3	726122	A23-TP Water	20160616.S23.4A	
PS4	726123	A23-TP Water	20160616.S23.4A	
PS5	726124	A23-TP Water	20160616.S23.4A	
PS6	726125	A23-TP Water	20160616.S23.4A	
PS7	726126	A23-TP Water	20160616.S23.4A	
PS8	726127	A23-TP Water	20160616.S23.4A	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 278256

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	794744		794745		794746		794747		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	794748		794749		794750		794751		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.003	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	794752		794753		794754		794755		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	794756		794757		794758		794759		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	<0.002	0.002	0.013	0.002	<0.002	0.002	mg/L

Sample Description	DH9		
Lab ID	794760		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	mg/L



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CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 278256

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 278256

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS

General Chemistry							
%RPD							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Total Phosphorus (as P)	N/A	%	0	N/A	20	20160711.R23.2A	
Blank							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.005	20160711.R23.2A	
Positive Control							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0424	0.06	20160711.R23.2A	
Total Phosphorus (as P)	0.002	mg/L	0.18	0.181	0.22	20160711.R23.2A	
Sample Spike							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Total Phosphorus (as P)	N/A	% Rec	75	110	125	20160711.R23.2A	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 278256

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	794752	TP Water	20160711.R23.2A	
DH2	794753	TP Water	20160711.R23.2A	
DH3	794754	TP Water	20160711.R23.2A	
DH4	794755	TP Water	20160711.R23.2A	
DH5	794756	TP Water	20160711.R23.2A	
DH6	794757	TP Water	20160711.R23.2A	
DH7	794758	TP Water	20160711.R23.2A	
DH8	794759	TP Water	20160711.R23.2A	
DH9	794760	TP Water	20160711.R23.2A	
PS1	794744	TP Water	20160711.R23.2A	
PS2	794745	TP Water	20160711.R23.2A	
PS3	794746	TP Water	20160711.R23.2A	
PS4	794747	TP Water	20160711.R23.2A	
PS5	794748	TP Water	20160711.R23.2A	
PS6	794749	TP Water	20160711.R23.2A	
PS7	794750	TP Water	20160711.R23.2A	
PS8	794751	TP Water	20160711.R23.2A	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 280882

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	801854		801855		801856		801857		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.005	0.002	0.005	0.002	0.005	0.002	0.005	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	801858		801859		801860		801861		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	0.005	0.002	<0.002 [<0.002]	0.002	<0.002	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	801862		801863		801864		801866		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.005	0.002	0.005	0.002	0.005	0.002	0.004	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	801867		801868		801869		801870		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	0.004	0.002	0.005	0.002	<0.002	0.002	mg/L

Sample Description	DH9		
Lab ID	801871		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	mg/L



TESTMARK Laboratories
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CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 280882

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 284061

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	810834		810835		810836		810837		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0095 [0.0094]	0.002	0.0098	0.002	0.0095	0.002	0.0095	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	810838		810839		810840		810841		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0082	0.002	0.0087	0.002	0.007	0.002	0.0069	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	810842		810843		810844		810845		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0096	0.002	0.0092	0.002	0.0096	0.002	0.0089	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	810846		810847		810848		810849		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0087	0.002	0.0096	0.002	0.0097	0.002	0.0072	0.002	mg/L

Sample Description	DH9		
Lab ID	810850		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.0077	0.002	mg/L



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CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 284061

LEGEND

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Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 284061

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS

General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	mg/L	0	N/A	20	20160914.S23.4A

Method Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.00755	0.01	20160914.S23.4A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0441	0.06	20160914.S23.4A
Total Phosphorus (as P)	0.002	mg/L	0.16	0.192	0.24	20160914.S23.4A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	110	125	20160914.S23.4A



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 284061

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	810842	A23-TP Water	20160914.S23.4A	
DH2	810843	A23-TP Water	20160914.S23.4A	
DH3	810844	A23-TP Water	20160914.S23.4A	
DH4	810845	A23-TP Water	20160914.S23.4A	
DH5	810846	A23-TP Water	20160914.S23.4A	
DH6	810847	A23-TP Water	20160914.S23.4A	
DH7	810848	A23-TP Water	20160914.S23.4A	
DH8	810849	A23-TP Water	20160914.S23.4A	
DH9	810850	A23-TP Water	20160914.S23.4A	
PS1	810834	A23-TP Water	20160914.S23.4A	
PS1	810834r	A23-TP Water	20160914.S23.4A	
PS2	810835	A23-TP Water	20160914.S23.4A	
PS3	810836	A23-TP Water	20160914.S23.4A	
PS4	810837	A23-TP Water	20160914.S23.4A	
PS5	810838	A23-TP Water	20160914.S23.4A	
PS6	810839	A23-TP Water	20160914.S23.4A	
PS7	810840	A23-TP Water	20160914.S23.4A	
PS8	810841	A23-TP Water	20160914.S23.4A	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 287368

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	820347		820348		820349		820350		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.006	0.002	0.006	0.002	0.0074	0.002	0.006	0.002	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	820351		820352		820353		820354		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	0.004 [0.005]	0.002	0.002	0.002	<0.002	0.002	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	820355		820356		820357		820358		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.005	0.002	0.004	0.002	0.0061	0.002	0.003	0.002	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	820359		820360		820361		820362		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.004	0.002	0.004	0.002	0.005	0.002	<0.002	0.002	mg/L

Sample Description	DH9		
Lab ID	820363		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	<0.002	0.002	mg/L



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CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 287368

LEGEND

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MDL: Method detection limit or minimum reporting limit.

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Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 287368

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS

General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	N/A	20	20161017.R23.2A
Total Phosphorus (as P)	N/A	%	0	N/A	20	20161017.R23.2B

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.00247	0.005	20161017.R23.2B
Total Phosphorus (as P)	0.002	mg/L	0	0.00377	0.005	20161017.R23.2A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.18	0.187	0.22	20161017.R23.2A
Total Phosphorus (as P)	0.002	mg/L	0.18	0.188	0.22	20161017.R23.2B
Total Phosphorus (as P)	0.005	mg/L	0.04	0.0462	0.06	20161017.R23.2A
Total Phosphorus (as P)	0.01	mg/L	0.04	0.0486	0.06	20161017.R23.2B
Total Phosphorus (as P)	0.02	mg/L	70.3	73.2	93.3	20161017.R23.2B
Total Phosphorus (as P)	0.02	mg/L	70.3	79.7	93.3	20161017.R23.2A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	100	125	20161017.R23.2A
Total Phosphorus (as P)	N/A	% Rec	75	97.6	125	20161017.R23.2B



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 287368

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	820355	TP Water	20161017.R23.2B	
DH2	820356	TP Water	20161017.R23.2B	
DH3	820357	TP Water	20161017.R23.2B	
DH4	820358	TP Water	20161017.R23.2B	
DH5	820359	TP Water	20161017.R23.2B	
DH6	820360	TP Water	20161017.R23.2B	
DH7	820361	TP Water	20161017.R23.2B	
DH8	820362	TP Water	20161017.R23.2B	
DH9	820363	TP Water	20161017.R23.2B	
PS1	820347	TP Water	20161017.R23.2A	
PS2	820348	TP Water	20161017.R23.2A	
PS3	820349	TP Water	20161017.R23.2A	
PS4	820350	TP Water	20161017.R23.2A	
PS5	820351	TP Water	20161017.R23.2B	
PS6	820352	TP Water	20161017.R23.2B	
PS6	820352r	TP Water	20161017.R23.2B	
PS7	820353	TP Water	20161017.R23.2B	
PS8	820354	TP Water	20161017.R23.2B	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 289489

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	826061		826062		826063		826064		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0036	0.001	0.0041	0.001	0.0043	0.001	0.0043	0.001	mg/L

Sample Description	PS5		PS6		PS7		PS8		
Lab ID	826065		826066		826067		826068		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0044	0.001	0.0036	0.001	0.0031	0.001	0.002	0.001	mg/L

Sample Description	DH1		DH2		DH3		DH4		
Lab ID	826069		826070		826071		826072		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0049	0.001	0.0049	0.001	0.0051	0.001	0.0073	0.001	mg/L

Sample Description	DH5		DH6		DH7		DH8		
Lab ID	826073		826074		826075		826076		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0056	0.001	0.0051	0.001	0.0059	0.001	0.002	0.001	mg/L

Sample Description	DH9		
Lab ID	826077		
General Chemistry	Result	MDL	Units
Total Phosphorus (as P)	0.0039	0.001	mg/L



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CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 289489

LEGEND

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QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 289489

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS

General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	10.6	20	20161109.R23.2B
Total Phosphorus (as P)	N/A	%	0	7.4	20	20161111.R23.2A

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.001	mg/L	0	0.0011	0.005	20161109.R23.2B
Total Phosphorus (as P)	0.001	mg/L	0	0.00341	0.005	20161111.R23.2A

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.001	mg/L	0.04	0.0402	0.06	20161111.R23.2A
Total Phosphorus (as P)	0.001	mg/L	0.04	0.0424	0.06	20161109.R23.2B
Total Phosphorus (as P)	0.001	mg/L	0.18	0.191	0.22	20161111.R23.2A
Total Phosphorus (as P)	0.001	mg/L	0.18	0.204	0.22	20161109.R23.2B
Total Phosphorus (as P)	0.002	mg/L	70.3	75.3	93.3	20161109.R23.2B
Total Phosphorus (as P)	0.002	mg/L	70.3	77.3	93.3	20161111.R23.2A

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	121	125	20161111.R23.2A
Total Phosphorus (as P)	N/A	% Rec	75	125	125	20161109.R23.2B



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 289489

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	826069	TP Water	20161109.R23.2B	
DH2	826070	TP Water	20161109.R23.2B	
DH3	826071	TP Water	20161109.R23.2B	
DH4	826072	TP Water	20161109.R23.2B	
DH5	826073	TP Water	20161109.R23.2B	
DH6	826074	TP Water	20161109.R23.2B	
DH7	826075	TP Water	20161109.R23.2B	
DH8	826076	TP Water	20161109.R23.2B	
DH9	826077	TP Water	20161111.R23.2A	
PS1	826061	TP Water	20161109.R23.2B	
PS2	826062	TP Water	20161109.R23.2B	
PS3	826063	TP Water	20161109.R23.2B	
PS4	826064	TP Water	20161109.R23.2B	
PS5	826065	TP Water	20161109.R23.2B	
PS6	826066	TP Water	20161109.R23.2B	
PS7	826067	TP Water	20161109.R23.2B	
PS8	826068	TP Water	20161109.R23.2B	



CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 290071

WORK ORDER RESULTS

Sample Description	PS1		PS2		PS3		PS4		
Lab ID	827885		827886		827887		827888		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0058 [0.0066]	0.001	0.0063	0.001	0.0052	0.001	0.0057	0.001	mg/L
Sample Description	PS5		PS6		PS7		PS8		
Lab ID	827889		827890		827891		827892		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0063	0.001	0.0064	0.001	0.0035	0.001	0.0035	0.001	mg/L
Sample Description	DH1		DH2		DH3		DH4		
Lab ID	827893		827894		827895		827896		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0112	0.001	0.0066	0.001	0.0113	0.001	0.0079	0.001	mg/L
Sample Description	DH5		DH6		DH7		DH8		
Lab ID	827897		827898		827899		827900		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Phosphorus (as P)	0.0045	0.001	0.0092	0.001	0.0071	0.001	0.0036	0.001	mg/L
Sample Description	DH9								
Lab ID	827901								
General Chemistry	Result	MDL	Units						
Total Phosphorus (as P)	0.0036	0.001	mg/L						



TESTMARK Laboratories

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Aqua-Cage Fisheries

Work Order Number: 290071

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS

General Chemistry

%RPD

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	N/A	20	20161115.R23.2B

Blank

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.001	mg/L	0	0.00305	0.005	20161115.R23.2B

Positive Control

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.001	mg/L	0.04	0.0481	0.06	20161115.R23.2B
Total Phosphorus (as P)	0.001	mg/L	0.18	0.204	0.22	20161115.R23.2B
Total Phosphorus (as P)	0.002	mg/L	70.3	74.5	93.3	20161115.R23.2B

Sample Spike

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	121	125	20161115.R23.2B



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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DH1	827893	TP Water	20161115.R23.2B	
DH2	827894	TP Water	20161115.R23.2B	
DH3	827895	TP Water	20161115.R23.2B	
DH4	827896	TP Water	20161115.R23.2B	
DH5	827897	TP Water	20161115.R23.2B	
DH6	827898	TP Water	20161115.R23.2B	
DH7	827899	TP Water	20161115.R23.2B	
DH8	827900	TP Water	20161115.R23.2B	
DH9	827901	TP Water	20161115.R23.2B	
PS1	827885	TP Water	20161115.R23.2B	
PS1	827885r	TP Water	20161115.R23.2B	
PS2	827886	TP Water	20161115.R23.2B	
PS3	827887	TP Water	20161115.R23.2B	
PS4	827888	TP Water	20161115.R23.2B	
PS5	827889	TP Water	20161115.R23.2B	
PS6	827890	TP Water	20161115.R23.2B	
PS7	827891	TP Water	20161115.R23.2B	
PS8	827892	TP Water	20161115.R23.2B	