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Kyanos Farms

Attn : Attila Ujez

Project

Description : Analysis of water from Test Kit-360

Project No. : 708512
Date Reported : 07/05/17
Date Activated : 06/21/17
Date Due : 07/06/17
Date Validated : 07/05/17

Dear Client,

The laboratory analysis of your water is presented in this report. The purpose was to screen for key indicators of water quality, quickly and at a low cost, while maintaining professional laboratory data quality. This report cannot be used for Safe Drinking Water Act regulatory compliance purposes because it does not comply with all of the U.S. EPA regulations, mainly in the area of sample collection.

The "Comments" column contains guidelines for interpreting the results. USEPA Maximum Contaminant Levels (MCL's) are included which should not be exceeded to protect health. MCL's in brackets [] are aesthetic water qualities such as taste, odor, or color. Values in braces { } are non-USEPA MCL's such as World Health Org., Canada, etc. *Many contaminants listed on the report do not yet have MCL's set for drinking water, a consequence of being on the leading edge of contaminant testing.*

The low cost of our lab-grade water sampling kits does not include a professional one-on-one consultation regarding specific water problems or health concerns. Please visit the USEPA drinking water website at <http://water.epa.gov/drink/>, or contact your local Health Department for information specific to your water supply. Always talk to your doctors about health concerns, and show them this report. Thank you for the pleasure and opportunity to serve you!

Respectfully submitted,

The professional staff at KAR Laboratories, Inc.

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Environmental Quality, and Indiana State Department of Health. This report cannot be used for the purposes of regulatory compliance due to sampling limitations and varying local regulations. Results are invalid if report is not presented in its entirety. The laboratory does not own the data and cannot provide copies. The owner of this data is Kyanos Farms.

DRINKING WATER LABORATORY REPORT

Client: *Kyanos Farms*

Project No. : 708512

Date Reported: 07/05/17

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>	
Sampled By : <i>Attila Ujez</i>	Date Received : <i>06/21/17</i>
Sample Date : <i>06/19/17</i>	Sample Type : <i>domestic</i>
Sample Time :	Sample No. : <i>708512-01W</i>

Test	Result	Method, Date, Analyst	Supplemental Info.
Water Test Kit-Anions <i>(For internal lab use)</i>	See below	EPA 300.0A 06/22/17 JWW	
Water Test Kit-Metals (MS) <i>(For internal lab use)</i>	See below	EPA 200.8 06/21/17 NHM	
Water Test Kit-Metals (OES1) <i>(For internal lab use)</i>	See below	EPA 200.7 06/21/17 JHB	
Prep, 1631 <i>(For internal lab use)</i>	Completed	EPA 1631E 06/22/17 NHM	
Aluminum, total <i>A common element occasionally found in water in trace amounts. Elevated levels may be associated with forms of dementia, such as Alzheimer's disease.</i>	<0.05 mg/L MCL: [0.050 mg/L] <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0956 DB Max: 21.3
Antimony, total <i>A trace element; occasionally found in water in trace amounts. High levels of antimony can increase blood cholesterol and decrease blood glucose.</i>	<0.005 mg/L MCL: 0.006 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0051 DB Max: 0.036
Arsenic, total <i>A trace element; occasionally found in water. High arsenic symptoms may include fatigue, depression, weight loss, hair loss, nausea or white lines across fingernails and toenails.</i>	<0.002 mg/L MCL: 0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0028 DB Max: 0.177
Barium, total <i>A common element; frequently found in water in trace amounts. Elevated levels may increase blood pressure.</i>	<0.05 mg/L MCL: 2 mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0764 DB Max: 3.57
Beryllium, total <i>A trace element; occasionally found in water in trace amounts. High levels can cause intestinal lesions.</i>	<0.002 mg/L MCL: 0.004 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.002 DB Max: 0.01
Bismuth, total <i>A trace element; occasionally found in water in trace amounts.</i>	<0.1 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.1017
Boron, total <i>An essential plant nutrient; frequently found in water.</i>	0.13 mg/L MCL: {0.5-5} mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 0.1363 DB Max: 21.9
Cadmium, total <i>A trace element; occasionally found in water in trace amounts. Elevated levels can cause kidney disease and/or hypertension.</i>	<0.001 mg/L MCL: 0.005 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.001 DB Max: 0.007
Calcium, total <i>A common mineral usually found in water and a primary contributor to water hardness. Calcium is an important nutrient for the human body.</i>	75.5 mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 36.2777 DB Max: 1,250
Cerium, total <i>A trace element; occasionally found in water in trace amounts.</i>	<0.005 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0052 DB Max: 0.616
Cesium, total	<0.02 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0204 DB Max: 0.08
Chromium, hexavalent <i>An industrial contaminant often associated with dye production, wood preservation, or metal plating.</i>	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0105 DB Max: 0.137

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Chromium, total <i>A common element; occasionally found in water in trace amounts.</i>	<0.01 mg/L MCL: 0.1 mg/L None found (acceptable result)	EPA 200.7 06/21/17 JHB	DB Avg: 0.0103 DB Max: 0.14
Cobalt, total <i>A trace element; occasionally found in water in trace amounts.</i>	<0.02 mg/L None found (acceptable result)	EPA 200.7 06/21/17 JHB	DB Avg: 0.0203 DB Max: 0.24
Copper, total	<0.02 mg/L MCL: 1.3 mg/L None found (acceptable result)	EPA 200.7 06/21/17 JHB	DB Avg: 0.1103 DB Max: 40.1
Dysprosium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0102 DB Max: 0.101
Erbium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.051
Europium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.031
Gallium, total	<0.02 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0204
Germanium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.018
Gold, total	<0.02 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0206 DB Max: 0.788
Hafnium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.015
Holmium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.02
Indium, total	<0.02 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0204
Iridium, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Iron, total <i>A common mineral often found in water, and a minor contributor to hardness. Elevated levels will affect taste and cause staining (laundry, fixtures, etc.).</i>	0.02 mg/L MCL: [0.3 mg/L]	EPA 200.7 06/21/17 JHB	DB Avg: 0.2677 DB Max: 165
Lanthanum, total	<0.01 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0103 DB Max: 0.346
Lead, total <i>Frequently found in water made corrosive by softening or demineralizing. Higher levels of Lead can cause abdominal pains, constipation, fatigue or depressed appetite. Long-term exposure may cause nerve or kidney damage, anemia, or learning disabilities in children.</i>	<0.001 mg/L MCL: 0.015 mg/L None found (acceptable result)	EPA 200.8 06/21/17 NHM	DB Avg: 0.0069 DB Max: 3.1

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Lithium, total <i>A common ion; occasionally found in water.</i>	<0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0567 DB Max: 3.92
Lutetium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Magnesium, total <i>A common mineral usually found in water, and a primary contributor to hardness.</i>	54.3 mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 11.5059 DB Max: 954
Manganese, total <i>A common element occasionally found in water; an essential mineral and a minor contributor to hardness. Elevated manganese levels can disrupt the nervous system and regeneration of hemoglobin.</i>	<0.005 mg/L MCL: {0.05 mg/L} <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0748 DB Max: 281
Mercury by EPA 1631 <i>A toxic, trace element. Mercury can cause kidney disease.</i>	<0.025 ug/L MCL: 2 ug/L <i>None found (acceptable result)</i>	EPA 1631E 06/22/17 NHM	DB Avg: 0.026 DB Max: 1.74
Molybdenum, total <i>A trace element; occasionally found in water in trace amounts.</i>	<0.02 mg/L MCL: {0.07} mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0215 DB Max: 6.93
Neodymium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0103 DB Max: 0.31
Nickel, total <i>A common element; occasionally found in water in trace amounts. Elevated levels may cause dermatitis or nasal irritation.</i>	<0.02 mg/L MCL: 0.1 mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.0228 DB Max: 2.6
Niobium, total	<0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0511
Palladium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.014
Phosphorus, total, by ICP <i>A common element and essential nutrient; occasionally found in water. Phosphates are sometimes added to water to reduce the corrosion of metal pipes.</i>	<0.5 mg/L <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.5573 DB Max: 159
Platinum, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Potassium, total <i>A common ion usually found in water.</i>	9.3 mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 3.5397 DB Max: 901
Praseodymium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0102 DB Max: 0.081
Rhenium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Rhodium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Rubidium, total <i>A trace element; occasionally found in water in trace amounts.</i>	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0112 DB Max: 1.61
Ruthenium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Samarium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0102 DB Max: 0.082
Scandium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Selenium, total <i>A trace element and essential mineral; occasionally found in water in trace amounts. High levels may cause hair or fingernail loss, numbness in fingers and toes, or circulatory problems.</i>	<0.005 mg/L MCL: 0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0052 DB Max: 0.143
Silicon, total <i>A likely dietary requirement for several organisms including humans.</i>	8.2 mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 7.575 DB Max: 18.6
Silver, total <i>A trace element; occasionally found in water in trace amounts. Higher levels may cause discoloring of the skin.</i>	<0.005 mg/L MCL: [0.1 mg/L] <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0083 DB Max: 30
Sodium, total <i>A common ion usually found in water. Low-sodium diets should be under 20 mg/L. Water softeners that use sodium chloride for regeneration will increase the amount of sodium in the softened water.</i>	234 mg/L MCL: [20 mg/L]	EPA 200.7 06/21/17 JHB	DB Avg: 55.7884 DB Max: 2,030
Strontium, total <i>A common element; frequently found in water.</i>	11.2 mg/L MCL: {1.5} mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 0.404 DB Max: 38.8
Sulfur, total, by ICP <i>Commonly present in the form of sulfate; occasionally present in the form of sulfide, which produces a "rotten egg" odor.</i>	43.7 mg/L	EPA 200.7 06/21/17 JHB	DB Avg: 17.3761 DB Max: 1,550
Tantalum, total	<0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0511
Tellurium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101
Terbium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.019
Thallium, total <i>A trace element; seldom found in water. Elevated levels can cause hair loss, changes in the blood, or kidney, digestive, or liver problems.</i>	<0.002 mg/L MCL: 0.002 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.002 DB Max: 0.009
Thorium, total	<0.02 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0204 DB Max: 0.022
Thulium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
Tin, total	<0.1 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.1022 DB Max: 3.7
Titanium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0106 DB Max: 0.432
Tungsten, total	<0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0511 DB Max: 0.185
Uranium, total <i>A naturally-occurring radioactive element occasionally found in water and a potential indicator of other radioactive problems. Uranium is primarily a chemical toxicant, with radiation playing a small role, or no role at all.</i>	<0.005 mg/L MCL: 0.03 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0139 DB Max: 2.14
Vanadium, total <i>A trace element; occasionally found in water in trace amounts. Vanadium may cause respiratory problems and inhibit sodium and potassium in ATP production.</i>	<0.02 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0205 DB Max: 0.312
Ytterbium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0101 DB Max: 0.038
Yttrium, total	<0.01 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0103 DB Max: 0.575
Zinc, total <i>A common element frequently found in water in trace amounts; often found in water from plumbing systems containing galvanized (zinc-plated) piping.</i>	<0.02 mg/L MCL: [5 mg/L] <i>None found (acceptable result)</i>	EPA 200.7 06/21/17 JHB	DB Avg: 0.1286 DB Max: 18.7
Zirconium, total	<0.05 mg/L <i>None found (acceptable result)</i>	EPA 200.8 06/21/17 NHM	DB Avg: 0.0515 DB Max: 4
Bacteria, E. coli <i>4% of kit samples are tested Positive.</i>	Negative <i>Negative indicates this bacteria was not detected by this screening method.</i>	SM 9223 B 06/21/17 EIF	
Bacteria, total coliform <i>39% of kit samples are tested Positive, often due to a dirty faucet aerator and/or improper sampling.</i>	Negative <i>Negative indicates this bacteria was not detected by this screening method.</i>	SM 9223 B 06/21/17 EIF	
Alkalinity (as CaCO3) <i>A collective measure of the ability of water to maintain pH, or more specifically, to neutralize acid. Typically falls in a 100-400 mg/L range.</i>	155 mg/L	SM 2320 B 06/22/17 LPK	DB Avg: 144.227 DB Max: 1,520
Bicarbonate (as CaCO3) <i>A common mineral usually found in water, and the primary contributor to alkalinity.</i>	155 mg/L	SM 2320 B 06/22/17 LIM	DB Avg: 142.2003 DB Max: 1,400
Bromide <i>A common ion frequently found in water and a byproduct of bromine disinfection.</i>	2.12 mg/L	EPA 300.0A 06/22/17 JWW	DB Avg: 0.1758 DB Max: 152
Carbonate (as CaCO3) <i>A common mineral frequently found in water, and a minor contributor to alkalinity.</i>	0.46 mg/L	SM 2320 B 06/22/17 LIM	DB Avg: 1.9524 DB Max: 207
Chlorate <i>A disinfection byproduct occasionally found in a chlorinated water.</i>	<0.5 mg/L MCL: {0.7} mg/L <i>None found (acceptable result)</i>	EPA 300.0A 06/22/17 JWW	DB Avg: 0.1604 DB Max: 58.4

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Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
Chloride <i>A common ion usually found in water. Higher levels may impart a salty taste, weaken metal plumbing or inhibit plant growth.</i>	463 mg/L <i>MCL: [250 mg/L]</i>	EPA 300.0A 06/22/17 JWW	<i>DB Avg: 48.4354</i> <i>DB Max: 3,500</i>
Color <i>Usually a faint yellow color, often due to iron but occasionally due to tannins from plant material.</i>	15 color units <i>MCL: [15 c.u.]</i>	SM 2120 B 06/22/17 EIF	<i>DB Avg: 7.9111</i> <i>DB Max: 50</i>
Conductivity <i>A measure of the water's ability to conduct electricity; often used as an indicator of total dissolved solids.</i>	2060 micromhos/cm	SM 2510 B 06/21/17 LPK	<i>DB Avg: 518.7986</i> <i>DB Max: 12,300</i>
Corrosivity, Langelier Index <i>A measure of the water's tendency to corrode metal or form mineral scale. A negative value indicates a tendency to corrode, and a positive value indicates a tendency to form scale. A value near zero is neutral. A thin coating of scale inside a metal pipe may help protect it from corrosion.</i>	0.0 S.U.	SM 2330 B 06/22/17 LIM	<i>DB Avg: -0.6781</i> <i>DB Max: 2.7</i>
Corrosivity, Ryznar Index <i>A measure of the water's tendency to corrode metal or form mineral scale. A value greater than 8.0 indicates a tendency to corrode, and a value less than 7.0 indicates a tendency to form scale. A value near 7.5 is neutral. A thin coating of scale inside a metal pipe may help protect it from corrosion.</i>	7.6 S.U.	SM 2330 B 06/22/17 LIM	<i>DB Avg: 9.0105</i> <i>DB Max: 20.6</i>
Fluoride <i>A common ion, sometimes found naturally in water, but usually added to municipal waters to prevent tooth decay.</i>	0.96 mg/L <i>MCL: 4 mg/L [2]</i>	EPA 300.0A 06/22/17 JWW	<i>DB Avg: 0.4043</i> <i>DB Max: 169</i>
Hardness <i>The combined effect produced mostly by naturally-occurring calcium and magnesium in the water. Hardness classifications: soft (0-17 mg/L), slightly hard (18-60 mg/L), moderately hard (61-120 mg/L), hard (121-180 mg/L) and very hard (>180 mg/L).</i>	412 mg/L (as CaCO₃)	SM 2340 B 06/22/17 LIM	<i>DB Avg: 137.9677</i> <i>DB Max: 4,990</i>
Hardness (gpg) <i>Another way to express hardness. Hardness classifications: soft (0-1.0 gpg), slightly hard (1.1-3.5 gpg), moderately hard (3.6-7.0 gpg), hard (7.1-10.5 gpg) and very hard (>10.6 gpg). 1 gpg = 17.12 mg CaCO₃/L.</i>	24.1 grains/gallon	SM 2340 B 06/22/17 LIM	<i>DB Avg: 8.0694</i> <i>DB Max: 291</i>
Nitrogen, nitrate	<0.5 mg/L <i>MCL: 10 mg/L</i> <i>None found (acceptable result)</i>	EPA 300.0A 06/22/17 JWW	<i>DB Avg: 1.124</i> <i>DB Max: 98.9</i>
Nitrogen, nitrite	<0.5 mg/L <i>MCL: 1 mg/L</i> <i>None found (acceptable result)</i>	EPA 300.0A 06/22/17 JWW	<i>DB Avg: 0.1349</i> <i>DB Max: 9.5</i>
Orthophosphate <i>A corrosion-inhibiting chemical sometimes used in public water supplies to reduce Lead concentrations.</i>	<0.5 mg/L <i>None found (acceptable result)</i>	EPA 300.0A 06/22/17 JWW	<i>DB Avg: 0.4488</i> <i>DB Max: 120</i>
PH <i>A measure of whether a water is acidic or basic. Usually between 6.5 and 8.5.</i>	7.5 S.U. <i>MCL: 6.5-8.5su</i>	SM 4500-H B 06/22/17 LPK	<i>DB Avg: 7.624</i> <i>DB Max: 11.4</i>
Salinity <i>The dissolved salts in water. Public water supplies are typically under 0.5ppt.</i>	1.04 ppt	SM 2520 B 06/22/17 LIM	<i>DB Avg: 24.9201</i> <i>DB Max: 2,920</i>
Silica (calc. from Silicon) <i>A common mineral; some dissolved silica is often found naturally in water. This result was calculated from the "Silicon, total" test and provides the theoretical maximum Silica concentration.</i>	17.5 mg/L	EPA 200.7 06/21/17 LIM	<i>DB Avg: 15.373</i> <i>DB Max: 132</i>
Sodium ads. ratio, adjusted <i>Many soil scientists recommend that the Adjusted SAR value be used for waters high in calcium or bicarbonate; primarily groundwater used for crop irrigation.</i>	5.43	KAR 06/22/17 LIM	<i>DB Avg: 6.4337</i> <i>DB Max: 146</i>
Sodium adsorption ratio <i>Farmers use this index to evaluate the sodium-loading potential in an irrigated soil. Irrigation water with a high SAR value may cause soil dispersion, crusting, poor seedling emergence, slower infiltration and percolation rates, and poor aeration.</i>	5.01	KAR 06/22/17 LIM	<i>DB Avg: 8.7299</i> <i>DB Max: 260</i>

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Sulfate <i>A common ion usually found in water. A low level actually improves taste and is an additive in some beverages. High levels can cause aesthetic problems or a laxative effect.</i>	135 mg/L MCL: [250 mg/L]	EPA 300.0A 06/22/17 JWW	DB Avg: 49.7536 DB Max: 4,860
Turbidity <i>Turbidity is a measure of the cloudiness in the water and is influenced by the amount and nature of suspended organic and inorganic material in water. The source could be fine sand, silt, clay, organic material, particles of iron and manganese or other metal oxides, rust from corroding piping, or carbonate precipitates.</i>	<1 NTU MCL: {0.3} None found (acceptable result)	SM 2130 B 06/21/17 MID	DB Avg: 3.4573 DB Max: 686
Tot. diss. solids, estimated <i>An estimate of all salts and minerals dissolved in the water. High levels can leave residues on fixtures.</i>	1900 mg/L MCL: [500 mg/L]	EPA 120.1 06/22/17 LIM	DB Avg: 354.6237 DB Max: 11,100
TOC, low level	1.8 mg/L	SM 5310 C 06/22/17 JAR	DB Avg: 1.1597 DB Max: 14
Volatile TICs <i>(For internal lab use)</i>	None found	EPA 524.2 06/22/17 JAR	
Water Test Kit-VOCs <i>(For internal lab use)</i>	See below	EPA 524.2 06/22/17 JAR	
Prep, VOA <i>(For internal lab use)</i>	Completed	EPA 524.2 06/22/17 JAR	
1,1,1,2-Tetrachloroethane	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,1,1-Trichloroethane	<0.5 ug/L MCL: 200 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5027 DB Max: 6.2
1,1,2,2-Tetrachloroethane	<0.5 ug/L MCL: {1} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,1,2-Trichloroethane	<0.5 ug/L MCL: 5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,1-Dichloroethane	<0.5 ug/L MCL: {20} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5005 DB Max: 1
1,1-Dichloroethene	<0.5 ug/L MCL: 7 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.505 DB Max: 13
1,1-Dichloropropene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,2,3-Trichlorobenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,2,3-Trichloropropane	<0.5 ug/L MCL: {0.8} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : "Well Water"			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
1,2,3-Trimethylbenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.518 DB Max: 43
1,2,4-Trichlorobenzene	<0.5 ug/L MCL: 70 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,2,4-Trimethylbenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.544 DB Max: 100
1,2-Dibromo-3-chloropropane	<0.2 ug/L MCL: 0.2 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.2
1,2-Dichlorobenzene	<0.5 ug/L MCL: 600 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,2-Dichloroethane	<0.5 ug/L MCL: 5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,2-Dichloropropane	<0.5 ug/L MCL: 5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,3,5-Trimethylbenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5118 DB Max: 27
1,3-Dichlorobenzene	<0.5 ug/L MCL: {7} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,3-Dichloropropane	<0.5 ug/L MCL: {20} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1,4-Dichlorobenzene	<0.5 ug/L MCL: 75 [5] ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
1-Chlorobutane	<5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5
2,2,4-Trimethylpentane	<5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5
2,2-Dichloropropane	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
2-Butanone (MEK)	<25 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 25.7255 DB Max: 700
2-Chloroethylvinyl ether	<10 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 10

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : "Well Water"			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
2-Chlorotoluene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
2-Hexanone	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
2-Methylnaphthalene by 524.2	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5
2-Nitropropane	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
4-Chlorotoluene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
4-Methyl-2-pentanone (MIBK)	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 49.9829 DB Max: 7.2
Acetone <i>An organic solvent; occasionally found in water if work was recently done on the plumbing system.</i>	<20 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 20.4498 DB Max: 300
Acetonitrile	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Acrolein	<20 ug/L MCL: {320} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 20
Acrylonitrile	<2 ug/L MCL: {10} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 2
Allyl chloride	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Benzene	<0.5 ug/L MCL: 5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5284 DB Max: 61
Bromobenzene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Bromochloromethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5112 DB Max: 11
Bromodichloromethane <i>A disinfection byproduct occasionally found in a chlorinated water.</i>	<0.5 ug/L MCL: {16} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 2.6259 DB Max: 66
Bromoform <i>A disinfection byproduct occasionally found in a chlorinated water.</i>	<0.5 ug/L MCL: {80} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 1.0077 DB Max: 83

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Bromomethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Butyl acetate	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Carbon disulfide	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5
Carbon tetrachloride	<0.5 ug/L MCL: 5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Chloroacetonitrile	<500 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 500
Chlorobenzene	<0.5 ug/L MCL: 100 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5 DB Max: 0.6
Chlorodifluoromethane	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Chloroethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Chloroform <i>A disinfection byproduct frequently found in a chlorinated water.</i>	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 7.5485 DB Max: 290
Chloromethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Chloropentafluoroethane	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Cis-1,2-Dichloroethene	<0.5 ug/L MCL: 70 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5038 DB Max: 5
Cis-1,3-Dichloropropene	<0.5 ug/L MCL: {0.5} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Cyclohexane	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5.0052 DB Max: 18
Cyclohexanol	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50
Dibromochloromethane <i>A disinfection byproduct occasionally found in chlorinated water.</i>	<0.5 ug/L MCL: {80} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 1.6821 DB Max: 70

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :				Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.		
Dibromomethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5029 DB Max: 5.1		
Dichlorodifluoromethane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5007 DB Max: 1.8		
Diethyl ether	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Diisopropyl ether	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Ethyl acetate	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Ethyl methacrylate	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Ethyl t-butyl ether (ETBE)	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Ethylbenzene	<0.5 ug/L MCL: 700 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5018 DB Max: 2.5		
Ethylene dibromide	<0.2 ug/L MCL: 0.05 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.2		
Heptane	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Hexachlorobutadiene by 524.2	<0.2 ug/L MCL: {0.6} ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.4101		
Hexachloroethane by 524.2	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
Hexane	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Isobutyraldehyde by 524	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Isopropanol	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 51.1825 DB Max: 1,000		
Isopropyl acetate	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :				Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.		
Isopropylbenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
M-and/or p-xylene	<1 ug/L MCL: {300} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 1.0986 DB Max: 210		
Methacrylonitrile	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Methyl cyclopentane	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 49.994 DB Max: 35		
Methyl formate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Methyl iodide	<5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Methyl methacrylate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Methyl t-butyl ether (MTBE)	<5 ug/L MCL: {15} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5.0508 DB Max: 120		
Methylacrylate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Methylene chloride	<0.5 ug/L MCL: 5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5043 DB Max: 6.9		
N-Amyl acetate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50		
N-Butanol	<500 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 500		
N-Butylbenzene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5004 DB Max: 1.5		
N-Decane	<5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5		
N-Nonane	<5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 5		
N-Propanol	<500 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 500		

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :				Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.		
N-Propylbenzene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
Naphthalene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5019 DB Max: 4.8		
Nitrobenzene by 524.2	<500 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 500		
O-Xylene	<0.5 ug/L MCL: {300} ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5462 DB Max: 99		
Octane	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
P-Isopropyltoluene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
Pentane	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5.0032 DB Max: 13		
Propionitrile	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Propyl acetate	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 50		
Sec-Butylbenzene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
Styrene	<0.5 ug/L MCL: 100 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.501 DB Max: 2.5		
Tert-Amyl methyl ether	<5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 5		
Tert-Butanol	<50 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 51.7056 DB Max: 4,000		
Tert-Butylbenzene	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5		
Tetrachloroethene	<0.5 ug/L MCL: 5 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 0.5045 DB Max: 6.3		
Tetrahydrofuran (THF) <i>An organic solvent; occasionally found in water if work was recently done on the plumbing system.</i>	<10 ug/L <i>None found (acceptable result)</i>	EPA 524.2 06/22/17 JAR	DB Avg: 17.8725 DB Max: 4,000		

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
Toluene	<0.5 ug/L MCL: 1000 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.6706 DB Max: 100
Trans-1,2-Dichloroethene	<0.5 ug/L MCL: 100 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Trans-1,3-Dichloropropene	<0.5 ug/L MCL: {0.5} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Trans-1,4-Dichloro-2-butene	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Trichloroethene	<0.5 ug/L MCL: 5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5017 DB Max: 1.3
Trichlorofluoromethane	<0.5 ug/L MCL: {150} ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5006 DB Max: 1.3
Trichlorotrifluoroethane	<0.5 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.5
Trihalomethanes, total <i>The sum of the 4 individual trihalomethane disinfectant byproducts.</i>	<2 ug/L MCL: 80 ug/L None found (acceptable result)	EPA 524.2 06/23/17 LIM	DB Avg: 12.6627 DB Max: 360
Trimethyl-o-acetate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50
Vinyl acetate	<50 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 50
Vinyl chloride	<0.5 ug/L MCL: 2 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 0.6709 DB Max: 20
TPH by GC-gasoline range	<100 ug/L None found (acceptable result)	EPA 524.2 06/22/17 JAR	DB Avg: 100.4382 DB Max: 1,200
Semi-volatile TICs	None found	EPA 525.2 06/22/17 JAR	
Water Test Kit-SVOCs <i>(For internal lab use)</i>	See below	EPA 525.2 06/22/17 JAR	
Prep, 525 <i>(For internal lab use)</i>	Completed	EPA 525.2 06/22/17 MHK	
1,2-Diphenylhydrazine	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :				Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.		
2,3,7,8-TCDD	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR			
2,4,6-Trichlorophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2,4-Dichlorophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2,4-Dimethylphenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2,4-Dinitrophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2,4-Dinitrotoluene	<0.5 ug/L MCL: {10} ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 0.5		
2,6-Dinitrotoluene	<0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 0.5		
2-Chloronaphthalene	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2-Chlorophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 3.9622		
2-Methyl-4,6-dinitrophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773		
2-Nitrophenol	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773		
3,3'-Dichlorobenzidine	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 4.11		
4-Bromophenyl phenyl ether	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773		
4-Chloro-3-methylphenol	<0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 0.5		
4-Chlorophenyl phenyl ether	<0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 0.5		
4-Nitrophenol	<1 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	DB Avg: 1		

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Acenaphthene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Acenaphthylene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Anthracene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Benzidine	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 5
Benzo(a)anthracene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Benzo(a)pyrene	<0.2 ug/L MCL: 0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Benzo(b)fluoranthene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Benzo(ghi)perylene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Benzo(k)fluoranthene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
Bis(2-chloroethoxy)methane	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.5
Bis(2-chloroethyl)ether	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.5
Bis(2-chloroisopropyl)ether	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.5
Bis(2-ethylhexyl)adipate	<2 ug/L MCL: 400 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2
Bis(2-ethylhexyl)phthalate	<2 ug/L MCL: 6 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2.0076 DB Max: 5.9
Butylbenzyl phthalate	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2
Chrysene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
<i>Di-n-butyl phthalate</i>	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2.0015 DB Max: 3.3
<i>Di-n-octyl phthalate</i>	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 1.6331
<i>Dibenzo(ah)anthracene</i>	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Diethyl phthalate</i>	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2.0216 DB Max: 21
<i>Dimethyl phthalate</i>	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 2
<i>Fluoranthene</i>	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Fluorene</i>	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Hexachlorobenzene</i>	<0.2 ug/L MCL: 1 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Hexachlorocyclopentadiene</i>	<0.2 ug/L MCL: 50 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Indeno(123cd)pyrene</i>	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
<i>Isophorone</i>	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.5
<i>N-Nitrosodi-n-propylamine</i>	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773
<i>N-Nitrosodimethylamine</i>	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773
<i>N-Nitrosodiphenylamine</i>	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773
<i>Pentachlorophenol</i>	<0.5 ug/L MCL: 1 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.5
<i>Phenanthrene</i>	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>		Date Received : 06/21/17	
Sampled By : Attila Ujez		Sample Type : domestic	
Sample Date : 06/19/17		Sample No. : 708512-01W	
Sample Time :			
Test	Result	Method, Date, Analyst	Supplemental Info.
Phenol	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 4.0773
Pyrene	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 0.2
TPH by GC-diesel range	<100 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	DB Avg: 100.1023 DB Max: 190
4,4'-DDD	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
4,4'-DDE	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
4,4'-DDT	<0.5 ug/L MCL: {1} ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Alachlor	<0.2 ug/L MCL: 2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Aldrin	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Alpha-BHC	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Atrazine	<0.2 ug/L MCL: 3 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Beta-BHC	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Butachlor	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Chlordane, alpha	<0.2 ug/L MCL: 2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Chlordane, gamma	<0.2 ug/L MCL: 2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Chlordane, trans nonachlor	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Chlorobenzilate	<1 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received : 06/21/17 Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Chloroneb	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Cis-Nonachlor	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Cis-Permethrin	<5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
DCB	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Dacthal	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Delta-BHC	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Dieldrin	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Endosulfan I	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Endosulfan II	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Endosulfan sulfate	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Endrin	<0.2 ug/L MCL: 2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Endrin aldehyde	<0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Etridiazole	<2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Gamma-BHC	<0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Heptachlor	<0.2 ug/L MCL: 0.4 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
Heptachlor epoxide	<0.2 ug/L MCL: 0.2 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u> Sampled By : Attila Ujez Sample Date : 06/19/17 Sample Time :	Date Received 06/21/17 : Sample Type : domestic Sample No. : 708512-01W
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Test	Result	Method, Date, Analyst	Supplemental Info.
Lindane	<0.2 ug/L MCL: 0.2 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Methoxychlor	<0.2 ug/L MCL: 40 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Metolachlor	<0.5 ug/L MCL: {10} ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Metribuzin	<0.5 ug/L MCL: {80} ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Simazine	<1 ug/L MCL: 4 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Toxaphene	<3 ug/L MCL: 3 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Trans-Nonachlor	<0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Trans-Permethrin	<5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
Trifluralin	<0.2 ug/L MCL: {20} ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1016	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1221	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1232	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1242	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1248	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1254	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1260	<0.5 ug/L MCL: 0.5 ug/L None found (acceptable result)	EPA 525.2 06/22/17 JAR	

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DRINKING WATER LABORATORY REPORT

Client: **Kyanos Farms**

Project No. : **708512**

Date Reported: **07/05/17**

Analysis of water from Test Kit-360

Sample ID : <u>"Well Water"</u>			
Sampled By : Attila Ujez		Date Received : 06/21/17	
Sample Date : 06/19/17		Sample Type : domestic	
Sample Time :		Sample No. : 708512-01W	
Test	Result	Method, Date, Analyst	Supplemental Info.
PCB Aroclor 1262	<0.5 ug/L MCL: 0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
PCB Aroclor 1268	<0.5 ug/L MCL: 0.5 ug/L <i>None found (acceptable result)</i>	EPA 525.2 06/22/17 JAR	
PCB Aroclors, total	NA MCL: 0.5 ug/L	EPA 525.2 06/22/17 JAR	

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"<" (less than sign) indicates NOT FOUND. The number to the right of "<" is the lowest concentration that the test can detect (the reporting limit)

Terms	Explanation
Test	The property or contaminant we tested for in your water sample
Result	The actual laboratory findings of your test will be in BOLD font
MCL	The Maximum Contaminant Level that should not be exceeded: USEPA Primary, [USEPA Secondary], {WHO, Canada, Etc.} - See Page 1
Method	The analytical test procedure that we used to measure that Test
Date	The date the test was performed
Analyst	The initials of the analyst who performed that Test
DB Avg	The numerical average from the KAR Laboratories database of about 10,000 USA test kit results from 2013-2016. For non-detected samples, the reporting limit is used. For reference use only; some calculations may be misleading due to varying reporting limits
DB Max	The highest test result from the KAR Laboratories database of about 10,000 USA test kit results from 2013-2016. For reference use only

Units of Measure

mg/L is milligrams per liter, also known as parts per million (ppm)	ppb is parts per billion
ug/L is micrograms per liter, also known as parts per billion (ppb)	gpg is grains per gallon
ppm is parts per million	S.U. is Standard Units
ppt is parts per thousand	NTU is Nephelometric Turbidity Units
micromhos/cm is micromhos per centimeter	

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DESCRIPTION OF TESTS AND IF NECESSARY, TREATMENT

Always consult your doctor for health-related issues and show him/her your Analytical Report. Please consult your water treatment professional, well driller, and local health department for treatment advice. Our expertise is measurement science and we cannot and will not advise customers on topics outside of our expertise. This is because we are not doctors, we do not know about the water in your area, and we must remain scientifically objective. **Please refer to the body of your Analytical Report for U.S. EPA Maximum Contaminant Levels and how they relate to YOUR water sample. Primary MCLs (example: MCL=0.5ug/L) should NOT be exceeded. Secondary MCLs are indicated in brackets [] (example: MCL=[0.5ug/L]) and are not health related and usually for aesthetic reasons (taste, color, iron staining, water spotting, etc.).** Below is information based upon common questions we get:

Bacteria, E. coli and total Coliform These bacteria come from human and animal wastes and are found throughout the environment. Most coliform bacteria are not a health threat, but some strains are pathogenic. Testing for Coliforms is used to indicate whether other potentially harmful bacteria may be present. Kitchen faucets with an aerator screen, infrequently used faucets, and outdoor faucets are more prone to grow bacteria. It is not uncommon for the sample to become contaminated by touching the threads on the vial and/or placing the cap on a counter top. Chlorination/flushing of the well and plumbing system will help reduce or eliminate the bacteria. Most public water systems maintain a beneficially low concentration of chlorine to control bacteria.

Corrosivity, Langelier Saturation Index See explanation following the test results

Corrosivity, Ryznar Stability Index See explanation following the test results

Chlorate See explanation following the test results

Fluoride See explanation following the test results

Hardness If a resin-bed water softener is being used, the Calcium and Magnesium results should be low (less than 5 mg/L). If they're not, double-check the softener's settings and make sure the end of the suction line in the brine tank isn't clogged with salt sludge. A well-maintained resin bed should last about 20 years.

Copper A common toxic contaminant in many drinking waters that we test. Usually attributable to the water distribution system and is directly effected by the corrosivity of the source water. The USEPA Primary Drinking Water limit is 1.3mg/L (1300ug/L).

Lead A common toxic contaminant in many drinking waters that we test. Usually attributable to the water distribution system and is directly effected by the corrosivity of the source water. The USEPA Primary Drinking Water limit is 0.015mg/L (15ug/L).

Uranium Uranium is naturally occurring in the soil and rock of certain regions, and decomposes to Radon and Radium, making Uranium a potential indicator of these other toxic breakdown products.

Nitrate The largest use of nitrates is in fertilizer. In the body, nitrates are converted to nitrites. Infants below six months of age who drink water containing nitrate in excess of the maximum contaminant level (MCL) could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. The long-term effects of Nitrate on adults is still being studied.

Salinity The saltiness or dissolved salt content of water. Groundwater, inland lakes, and rivers are typically less than 0.5 parts-per-thousand (ppt). Brackish water is 0.5 to 30 ppt. Seawater and brines are 30 to 50 ppt.

Sodium adsorption ratio (SAR) See explanation following the test results

Sodium ads. ratio, adjusted See explanation following test results

Silica See explanation following the test results.

Sulfate Usually found in drinking water. The USEPA secondary limit is 250ppm. See explanation following the test results.

Sulfur Usually found in drinking water and is most often directly attributable to the sulfate ion (SO₄). Excess indicates additional sources

Total Organic Carbon TOC does not identify specific organic contaminants. It will, however, detect the presence of all carbon-bearing molecules, thus identifying the presence of any organic contaminants, regardless of molecular make-up. A general water quality criteria for TOC is 2 mg/L for treated water and 4 mg/L for source water. TOC levels in chlorinated water influence the amount of Total Trihalomethanes (TTHMs) that are formed in that water.

Turbidity A cloudy or milky appearance of water. Turbidity is due to particles scattering or absorbing light, giving the water a cloudy appearance. Turbidity should be below 5 nephelometric turbidity units (NTU), while systems that filter must ensure that the turbidity does not exceed 1 NTU, or 0.5 NTU for conventional or direct filtration in at least 95% of the daily samples for any two consecutive months.

Chloroform, Bromoform, Bromodichloromethane, Dibromochloromethane The maximum allowable concentration of the sum of these is 80 ug/L. These compounds are collectively called Total Trihalomethanes (TTHM) and are commonly found in municipal water supplies. Trihalomethanes are formed when chlorine is used to disinfect water for drinking and represent a group of chemicals called disinfection byproducts. They are a byproduct of the reaction of chlorine or bromine with organic matter present in the water being treated. A good charcoal filter is effective at removing trihalomethanes from water, just be sure to change the charcoal bed frequently to avoid bacteria and mold buildup.

Total Trihalomethanes (TTHM's) See above "Chloroform, Bromoform, Bromodichloromethane, Dibromochloromethane"

Ethylene dibromide EDB is very rarely found in drinking water. We can report it down to 0.2 ug/L. The extremely low EPA MCL 0.05 ug/L detection limit is beyond the scope of our value-centric kits. We are however EPA certified to analyze EDB using EPA Method 504 at additional cost. Please give us a call if you have reason to believe this is a concern in your situation.

PCBs Polychlorinated biphenyls are highly toxic but very rarely found in drinking water. We report down to 2 ug/L in Kit-270 and 0.5 ug/L in Kit-360. The extremely low EPA MCL 0.5 ug/L detection limit is beyond the scope of our value-centric Kit-270. We are however EPA certified to analyze PCB using EPA Method 508 at additional cost. Please give us a call if you have reason to believe this is a concern in your situation.

VOC TICs Volatile Organic Tentatively Identified Compounds - in a GC-MS volatile analysis using EPA method 524.2, we directly calibrate the instrument using a 5-point calibration curve with pure, authentic analytical standards. These are called "target analytes". But we also have the ability to detect other contaminants during the course of the test, and will report these "Tentatively Identified Compounds" that we may find. We use the NIST mass spectral database of about 250,000 compounds to identify the contaminant, then do a "raw" quantification. It's called raw because we did not directly calibrate the instrument with that authentic compound, but we have a pretty good idea what response it will provide. So statistically, we report the TICs to only one significant figure, whereas we use more significant figures elsewhere for organics. We rarely detect TICs, but when we do, they're a very good thing to know about.

SVOC TICs Semi-Volatile Organic Tentatively Identified Compounds - In a GC-MS semi-volatile analysis using EPA Method 525.2, we directly calibrate the instrument using a 5-point calibration curve with pure, authentic analytical standards. These are called "target analytes". But we also have the ability to detect other contaminants during the course of the test, and will report these "Tentatively Identified Compounds" that we may find. We use the NIST mass spectral database of about 250,000 compounds to identify the contaminant, then do a "raw" quantification. It's called raw because we did not directly calibrate the instrument with that authentic compound, but we have a pretty good idea what response it will provide. So statistically, we report the TICs to only one significant figure, whereas we use more significant figures elsewhere for organics. We rarely detect TICs, but when we do, they're a very good thing to know about.