

Radiant Life Company
5277 Aero Drive
Santa Rosa, CA 95403

Project Number: 14 Stage Water Purification Analysis
before Remineralization
Project Manager: Tom DiGiuseppe

Reported:
02/08/2023 14:44

Sample Results

Sample: Water System
3A12044-01 (Water) Sampled: 01/11/23 12:53 by Greg Del Secco

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0		Instr: LC12				
Batch ID: W3A1797	Preparation: _NONE (LC)	Prepared: 01/22/23 11:04		Analyst: jan		
Chloride, Total	ND	0.50	mg/l	1	01/23/23	
Fluoride, Total	ND	0.10	mg/l	1	01/23/23	
Sulfate as SO4	ND	0.50	mg/l	1	01/23/23	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: _Various		Instr: [CALC]				
Batch ID: [CALC]	Preparation: [CALC]	Prepared: 01/25/23 12:38		Analyst: jan		
Total Anions	ND	0.13	meq/l	1	01/23/23	
Total Cations	ND	0.12	meq/l	1	01/27/23	
Total hardness as CaCO3	ND	3.31	mg/l	1	01/27/23	
Method: EPA 335.4		Instr: AA01				
Batch ID: W3A1777	Preparation: _NONE (WETCHEM)	Prepared: 01/21/23 08:11		Analyst: ISM		
Cyanide, Total	ND	5.0	ug/l	1	01/21/23	
Method: EPA 353.2		Instr: AA01				
Batch ID: W3A1040	Preparation: _NONE (WETCHEM)	Prepared: 01/12/23 14:35		Analyst: ism		
Nitrate as N	ND	0.20	mg/l	1	01/12/23 18:28	
Nitrite as N	ND	100	ug/l	1	01/12/23 18:28	
NO2+NO3 as N	ND	200	ug/l	1	01/12/23	
Method: SM 2320B		Instr: AA02				
Batch ID: W3A1752	Preparation: _NONE (WETCHEM)	Prepared: 01/20/23 12:08		Analyst: vat		
Alkalinity as CaCO3	ND	5.0	mg/l	1	01/20/23	
Bicarbonate Alkalinity as HCO3	ND	6.1	mg/l	1	01/20/23	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/l	1	01/20/23	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/l	1	01/20/23	
Method: SM 2330B		Instr: ICPMS06				
Batch ID: W3B0470	Preparation: _NONE (METALS)	Prepared: 02/06/23 19:11		Analyst: jol		
Langelier Index @ 20 C	-6.00	-10.0	LSI	1	02/07/23	
Langelier Index @ 60 C	-5.46	-10.0	LSI	1	02/07/23	
Method: SM 2510B		Instr: AA02				
Batch ID: W3B0055	Preparation: _NONE (WETCHEM)	Prepared: 02/01/23 10:34		Analyst: vat		
Specific Conductance (EC)	ND	2.0	umhos/cm	1	02/02/23	
Method: SM 2540C		Instr: OVEN01				
Batch ID: W3A1283	Preparation: _NONE (WETCHEM)	Prepared: 01/16/23 18:33		Analyst: heq		
Total Dissolved Solids	ND	10	mg/l	1	01/17/23	
Method: SM 4500Cl-G		Instr: UVVIS04				
Batch ID: W3A1109	Preparation: _NONE (WETCHEM)	Prepared: 01/13/23 10:06		Analyst: cpt		
Chlorine Residual, Free	ND	0.050	mg/l	1	01/13/23	*

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(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Method: SM 4500Cl-G		Instr: UVVIS04				
Batch ID: W3A1109	Preparation: _NONE (WETCHEM)	Prepared: 01/13/23 10:06	Analyst: cpt			
Dichloramine	ND	0.050	mg/l	1	01/13/23	*
Monochloramine	ND	0.050	mg/l	1	01/13/23	*
Method: SM 4500H+-B		Instr: AA02				
Batch ID: W3A1078	Preparation: _NONE (WETCHEM)	Prepared: 01/12/23 17:09	Analyst: vat			
pH	6.72	0.10	pH Units	1	01/12/23 18:11	*
Method: SM 5540C		Instr: UVVIS04				
Batch ID: W3A0992	Preparation: _NONE (WETCHEM)	Prepared: 01/12/23 11:46	Analyst: heq			
MBAS	ND	0.050	mg/l	1	01/12/23 16:53	

Metals by EPA 200 Series Methods

Method: EPA 200.7		Instr: ICP03				
Batch ID: W3A2108	Preparation: EPA 200.2	Prepared: 01/25/23 12:38	Analyst: kvm			
Calcium, Total	ND	0.500	mg/l	1	01/27/23	
Iron, Total	ND	30	ug/l	1	01/27/23	
Magnesium, Total	ND	0.500	mg/l	1	01/27/23	
Potassium, Total	ND	0.50	mg/l	1	01/27/23	
Sodium, Total	ND	1.0	mg/l	1	01/27/23	
Method: EPA 200.8		Instr: ICPMS04				
Batch ID: W3A2113	Preparation: EPA 200.2	Prepared: 01/25/23 12:43	Analyst: TYC			
Aluminum, Total	ND	20	ug/l	1	01/30/23	
Antimony, Total	ND	0.50	ug/l	1	01/30/23	
Arsenic, Total	ND	0.50	ug/l	1	01/30/23	
Barium, Total	ND	1.0	ug/l	1	01/30/23	
Beryllium, Total	ND	0.10	ug/l	1	01/30/23	
Cadmium, Total	ND	0.50	ug/l	1	01/30/23	
Chromium, Total	ND	2.0	ug/l	1	01/30/23	
Copper, Total	1.1	1.0	ug/l	1	01/30/23	
Lead, Total	ND	0.20	ug/l	1	01/30/23	
Manganese, Total	ND	1.0	ug/l	1	01/30/23	
Nickel, Total	ND	2.0	ug/l	1	01/30/23	
Selenium, Total	ND	0.50	ug/l	1	01/30/23	
Silver, Total	ND	0.20	ug/l	1	01/30/23	
Thallium, Total	ND	0.20	ug/l	1	01/30/23	
Zinc, Total	ND	10	ug/l	1	01/30/23	
Method: EPA 245.1		Instr: HG03				
Batch ID: W3A1599	Preparation: EPA 245.1	Prepared: 01/19/23 09:09	Analyst: KVM			
Mercury, Total	ND	0.050	ug/l	1	01/20/23	

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3A12044-01 (Water) Sampled: 01/11/23 12:53 by Greg Del Secco
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Method: EPA 245.1		Instr: HG03				
Batch ID: W3A1599	Preparation: EPA 245.1	Prepared: 01/19/23 09:09		Analyst: KVM		
Microbiological Parameters by Standard Methods						
Method: SM 9223B		Instr: INC12				
Batch ID: W3A1124	Preparation: _NONE (MICROBIOLOGY)	Prepared: 01/12/23 17:44		Analyst: rea		
E. coli	Absent	1.0	N/A	1	01/13/23 13:00	
Total Coliform	Absent	1.0	N/A	1	01/13/23 13:00	
Perchlorate by EPA 314.0						
Method: EPA 314.0		Instr: LC08_Channel1				
Batch ID: W3A1713	Preparation: _NONE (LC)	Prepared: 01/24/23 09:36		Analyst: JAN		
Perchlorate	ND	2.0	ug/l	1	01/25/23	

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Sample Results

Sample: Water System

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3A12044-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 524.2		Instr: GCMS08				
Batch ID: W3A1201	Preparation: EPA 5030B	Prepared: 01/16/23 08:53		Analyst: ADM		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	01/17/23	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	01/17/23	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	01/17/23	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	01/17/23	
1,1-Dichloroethane	ND	0.50	ug/l	1	01/17/23	
1,1-Dichloroethene	ND	0.50	ug/l	1	01/17/23	
1,1-Dichloropropene	ND	0.50	ug/l	1	01/17/23	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	01/17/23	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	01/17/23	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	01/17/23	
1,2-Dichloroethane	ND	0.50	ug/l	1	01/17/23	
1,2-Dichloropropane	ND	0.50	ug/l	1	01/17/23	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	01/17/23	
1,3-Dichloropropane	ND	0.50	ug/l	1	01/17/23	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	01/17/23	
2,2-Dichloropropane	ND	0.50	ug/l	1	01/17/23	
2-Butanone	ND	5.0	ug/l	1	01/17/23	
2-Chlorotoluene	ND	0.50	ug/l	1	01/17/23	
2-Hexanone	ND	5.0	ug/l	1	01/17/23	
4-Chlorotoluene	ND	0.50	ug/l	1	01/17/23	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	01/17/23	
Benzene	ND	0.50	ug/l	1	01/17/23	
Bromobenzene	ND	0.50	ug/l	1	01/17/23	
Bromochloromethane	ND	0.50	ug/l	1	01/17/23	
Bromodichloromethane	ND	0.50	ug/l	1	01/17/23	
Bromoform	ND	0.50	ug/l	1	01/17/23	
Bromomethane	ND	0.50	ug/l	1	01/17/23	
Carbon tetrachloride	ND	0.50	ug/l	1	01/17/23	
Chlorobenzene	ND	0.50	ug/l	1	01/17/23	
Chloroethane	ND	0.50	ug/l	1	01/17/23	
Chloroform	ND	0.50	ug/l	1	01/17/23	
Chloromethane	ND	0.50	ug/l	1	01/17/23	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	01/17/23	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	01/17/23	
Dibromochloromethane	ND	0.50	ug/l	1	01/17/23	

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Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Volatile Organic Compounds by P&T and GC/MS (Continued)

Method: EPA 524.2 **Instr:** GCMS08

Batch ID: W3A1201 **Preparation:** EPA 5030B **Prepared:** 01/16/23 08:53 **Analyst:** ADM

Dibromomethane	ND	0.50	ug/l	1	01/17/23	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	01/17/23	
Di-isopropyl ether	ND	2.0	ug/l	1	01/17/23	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	01/17/23	
Ethylbenzene	ND	0.50	ug/l	1	01/17/23	
Freon 113	ND	5.0	ug/l	1	01/17/23	
Hexachlorobutadiene	ND	0.50	ug/l	1	01/17/23	
Isopropylbenzene	ND	0.50	ug/l	1	01/17/23	
m,p-Xylene	ND	0.50	ug/l	1	01/17/23	
m-Dichlorobenzene	ND	0.50	ug/l	1	01/17/23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	01/17/23	
Methylene chloride	ND	0.50	ug/l	1	01/17/23	
Naphthalene	ND	0.50	ug/l	1	01/17/23	
n-Butylbenzene	ND	0.50	ug/l	1	01/17/23	
n-Propylbenzene	ND	0.50	ug/l	1	01/17/23	
o-Dichlorobenzene	ND	0.50	ug/l	1	01/17/23	
o-Xylene	ND	0.50	ug/l	1	01/17/23	
p-Dichlorobenzene	ND	0.50	ug/l	1	01/17/23	
p-Isopropyltoluene	ND	0.50	ug/l	1	01/17/23	
sec-Butylbenzene	ND	0.50	ug/l	1	01/17/23	
Styrene	ND	0.50	ug/l	1	01/17/23	
Tert-amyl methyl ether	ND	2.0	ug/l	1	01/17/23	
tert-Butylbenzene	ND	0.50	ug/l	1	01/17/23	
Tetrachloroethene	ND	0.50	ug/l	1	01/17/23	
THMs, Total	ND	0.50	ug/l	1	01/17/23	
Toluene	ND	0.50	ug/l	1	01/17/23	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	01/17/23	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	01/17/23	
Trichloroethene	ND	0.50	ug/l	1	01/17/23	
Trichlorofluoromethane	ND	0.50	ug/l	1	01/17/23	
Vinyl chloride	ND	0.50	ug/l	1	01/17/23	
Xylenes, Total	ND	0.50	ug/l	1	01/17/23	

Surrogate(s)	Result	Conc:	MRL	Analyzed
1,2-Dichlorobenzene-d4	90%	8.97	70-130	01/17/23
4-Bromofluorobenzene	90%	8.96	70-130	01/17/23