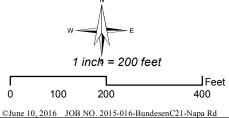


RAY CARLSON & ASSOCIATES, INC. IS TO BE HELD HARMLESS FOR ANY AND ALL DISCREPANCIES OF DISTANCE AND GRAPHIC DISTORTION RELATING TO THE USE AND DEPENDENCE UPON THIS REPRESENTATION.

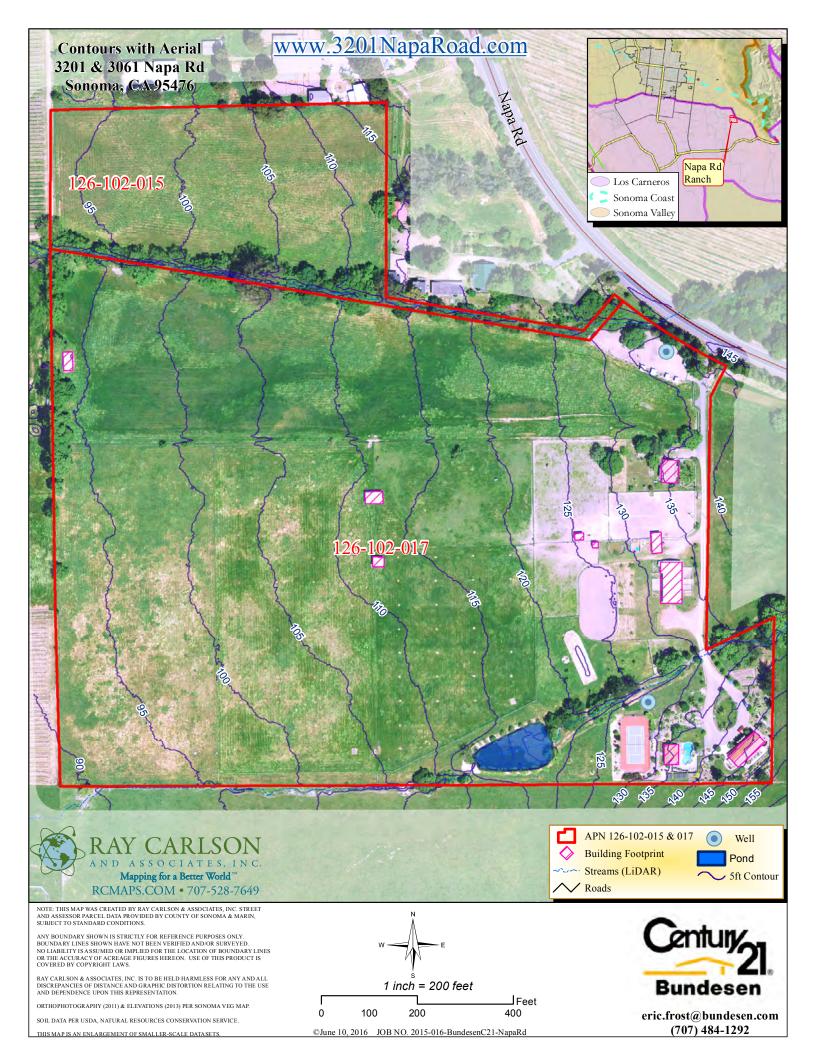
SOIL DATA PER USDA, NATURAL RESOURCES CONSERVATION SERVICE

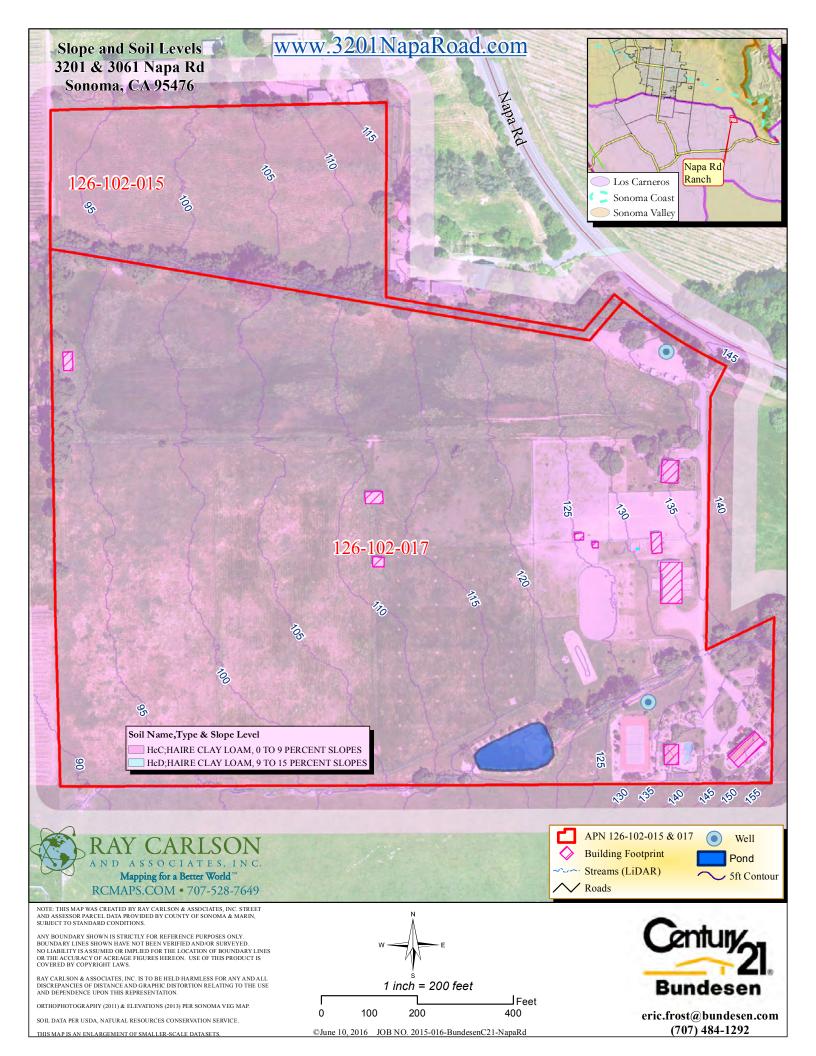
THIS MAP IS AN ENLARGEMENT OF SMALLER-SCALE DATASETS

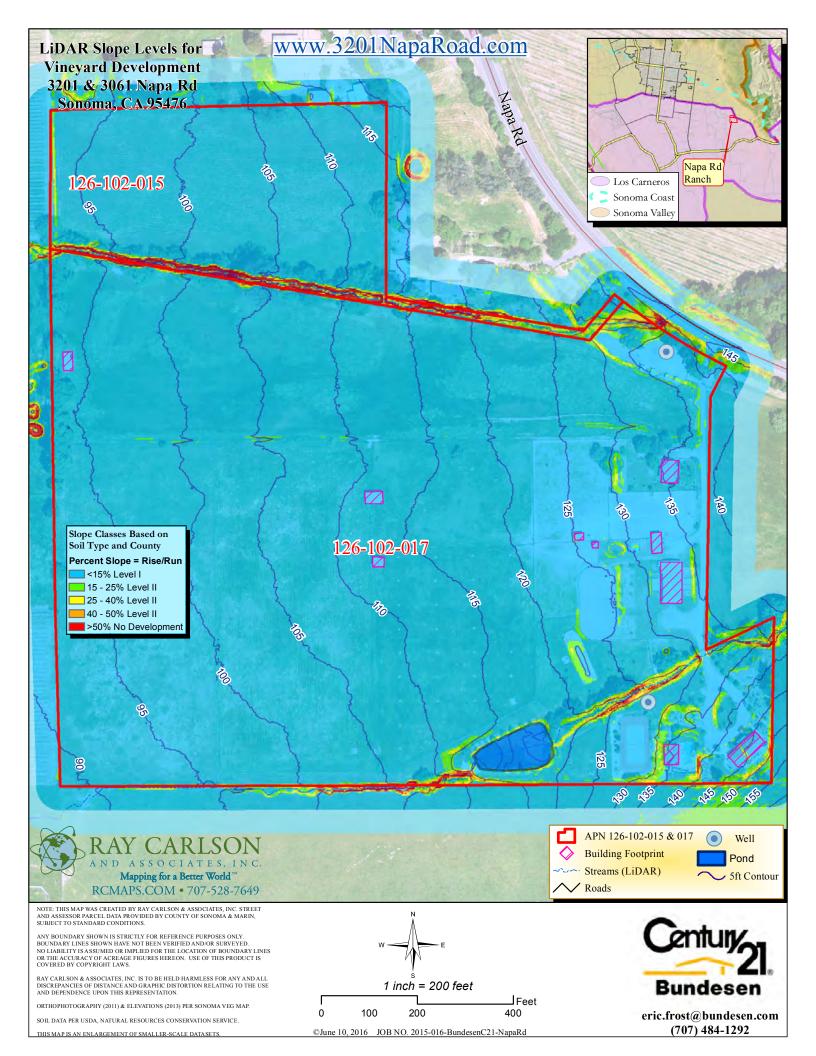


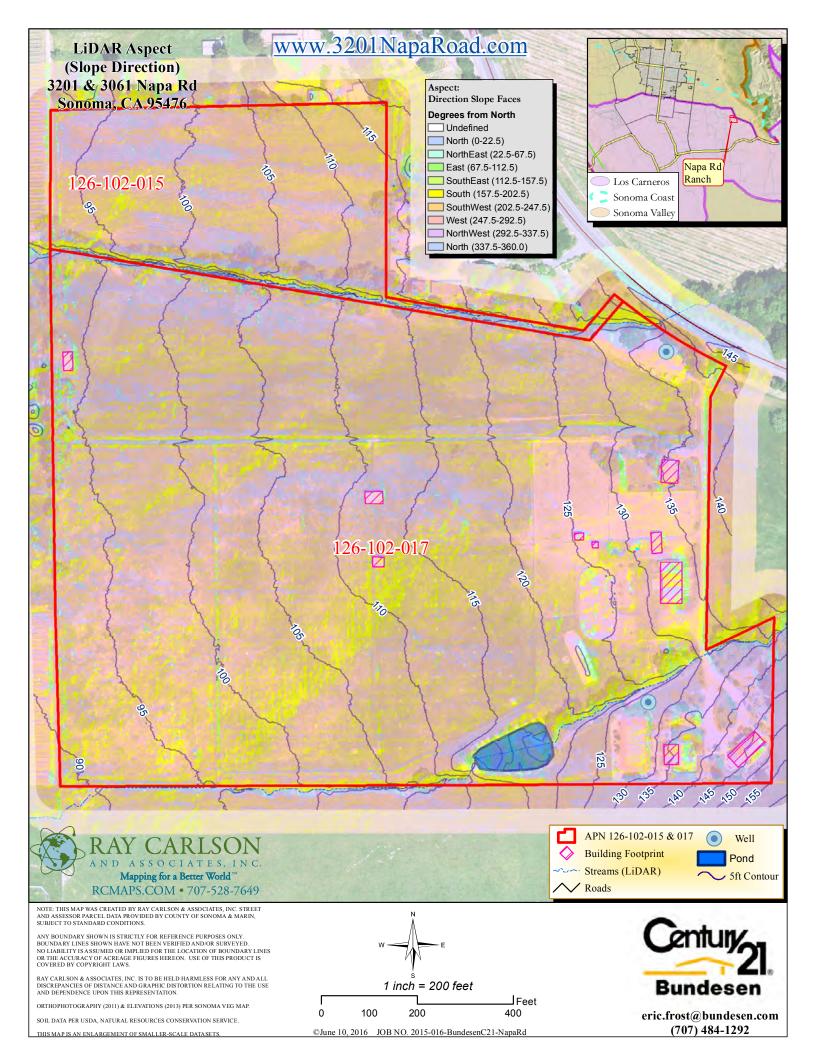


eric.frost@bundesen.com (707) 484-1292







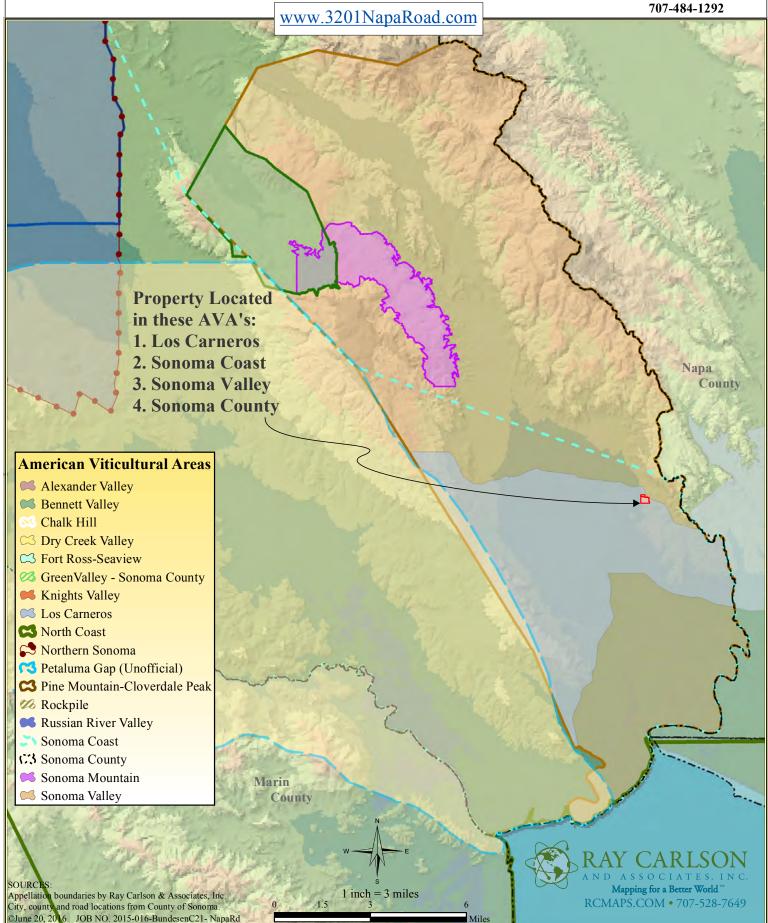


Viticultural Areas for Sonoma County, CA

3201 & 3601 Napa Road, Sonoma, CA 95476



Century





Ray's Well Testing Service Inc. 4853 Vine Hill Rd, Sebastopol Ca 95472 Phone 707 823 3191 Fax 707 317 0057 Lic# 903708

CUSTOMER INFORMATION

REPORT #: 7797-2 By: Matt Owens	DATE OF TEST: 12/28/15
CUSTOMER NAME: Black Trust	CONTACT: Kyle Orth - 559 437 7648
AGENT NAME: Eric Frost - Century 21 Bundesen	CONTACT: 707 484 1292
PROPERTY ADDRESS: 3201 Napa Rd, Sonoma CA 95476	SENT TO: eric.frost@bundesen.com

WELL DATA

LOCATION OF WELL:	Pond Well - Between creek and tennis courts
TYPE OF WELL:	Drilled
DEPTH OF COMPLETED WEL	L: 765 Feet - as indicated by provided drill log
DIAMETER OF WELL CASING	3: 10 -1/2" O.D. Steel at surface, drill log not legible
SANITARY WELL SEAL (PLA	TE SEAL AT OPENING OF WELL CASING): Yes
ANNULAR SEAL (IN-GROUNI	SEAL OF BOREHOLE): 35' cement seal
PUMP HP AND TYPE:	10 HP 460V 3PH Submersible, 4" Tee, #10-3 cable
DEPTH OF PUMP SUCTION:	Unknown, could not probe drop pipe

WATER PRODUCTION RESULTS

WATER LEVEL AT START (STATIC LEVEL):	111.7 Feet	FLOW RATE AT START:	53 GPM
FINAL PUMPING LEVEL:	182 Feet	FINAL FLOW RATE:	45 GPM
WATER LEVEL DRAWDOWN:	70.3 Feet	TOTAL LENGTH OF TEST:	4 Hours

CONSTANT PUMPING LEVEL INFORMATION

STABILIZED PUMPING LEVEL:	182 Feet	STABILIZED FLOW RATE (YIELD):	45 GPM
DURATION OF CONSTANT PUMPING LEVEL:	See pumping log	TOTAL YIELD:	See pumping log

WATER SYSTEM INSPECTION

WELL PUMP	Functional	TECHNICAL INFO: Control panel dated 1985, 12.4 amps
ELECTRICAL	Functional	TECHNICAL INFO: 70 amp fuse disconnect in control panel
PRESSURE TANK	See Comments	TECHNICAL INFO: See Comments
STORAGE TANK	None	TECHNICAL INFO: Pond is used as reservoir
BOOSTER PUMP	Deficient	TECHNICAL INFO: 20 HP 460V 3PH Cornell 2 1/2 W20-2 booster pump, 135 amps

WATER QUALITY TESTING

THE FOLLOWING SAMPLES ARE BE	ING ANALYZED. PLEASE REF	ER TO FOLLOW-UP REPORT FOR RESULTS.
Residential + Irrigation Package	DATED: 12/28/15	TURNAROUND: Standard - Due 1/13/16
	DATED:	TURNAROUND:
	DATED:	TURNAROUND:
	DATED:	TURNAROUND:

SEE NEXT PAGE FOR FURTHER INFORMATION...

DATE: 12/28/15

ADDRESS: 3201 Napa Rd, Sonoma CA 95476

COMMENTS:

- 1. The recharge rate at the end of the test was 45 gallons per minute. This test may not represent the long term or seasonal yield.
- 2. This well is only used to fill the pond located on the property. There is a pipe protruding from the creek bank adjacent to the well and this is the only outlet pipe from the well. The pump is operated manually when needed.
- 3. There is a 20 HP 460V 3 Phase booster pump that draws water from the pond and pressurizes 2 WX-350 pressure tanks dated 1989 with 0 and 42 psi air charges. The operating pressure range could not be determined as the pump was not functional. This system (when functional) pressurizes water for sprinklers at the various arenas on the property. The pump drew 135 amps, indicating a locked rotor.
- 4. There is a 4" Morrill 1000 series model 1010 horizontal filter installed on the main line leaving the booster pump.

PUMPING LOG:

TIME	WATER LEVEL	COLOR	SEDIMENT	ODOR	GPM
10:05 AM	111.7'	CLEAR	NO	NO	53
10:20 AM	174.6'	CLEAR	NO	NO	51.5
10:35 AM	177.1'	CLEAR	NO	NO	51.5
10:50 AM	180.1'	CLEAR	NO	NO	51
11:05 AM	182'	CLEAR	NO	NO	45
11:35 AM	182'	CLEAR	NO	NO	45
12:05 PM	182'	CLEAR	NO	NO	45
12:35 PM	182'	CLEAR	NO	NO	45
1:05 PM	182'	CLEAR	NO	NO	45
1:35 PM	182'	CLEAR	NO	NO	45
2:05 PM	182'	CLEAR	NO	NO	45

Thank you for allowing us to do your well inspection!

APPROVED BY: NICK BRASESCO

Water levels and well depth are measured as feet below top of well casing unless otherwise noted.

All wells and springs are subject to seasonal and yearly changes in regards to water yield, production and quality. Wells may be influenced by creeks or other water sources and are likely to yield less water during dry months of the year; typically August, September, & October. We make no predictions of future water production or water quality.

This report is for informational use only and is in lieu of and supercedes any other representation or statements of the agent or employee of the company, and all other such representations or statements shall be relied upon at the customer's own risk. The data and conclusions provided herein are based upon the best information available to the company using standard and accepted practices of the water well drilling industry. However, conditions in water wells are subject to dramatic changes in short periods of time. Therefore, the data and conclusions are valid only as of the date of the test and should not be relied upon to predict either the future quantity or quality the well will produce. The company makes no warranties either expressed or implied as to future water production and expressly disclaims and excludes any liability for consequential or incidental damages arising out of the breach of any expressed or implied warranty of future water production or out of any further use of the report by the customer.

RECOMMENDATIONS:

- 1. There is a broken pipe joint underground near the well. Recommend repair.
- 2. The pond booster pump is drawing locked rotor amps and is not functional at this time so the system could not be operated for further testing. Recommend repair. (254JP frame)
- 3. The pond pump pressure switch is worn and charred. Recommend replacement.
- 4. One of the pressure tanks is not holding an air charge. Recommend replacement.
- 5. A pressure test on the well pump could not be performed due to the underground leak. Recommend referring to installer records for the pump model to cross reference output of the pump to the manufacturers performance curve.

Well Head



Well Pump Control Panel



Pond / Pond Fill Pipe



Pond Booster Pump

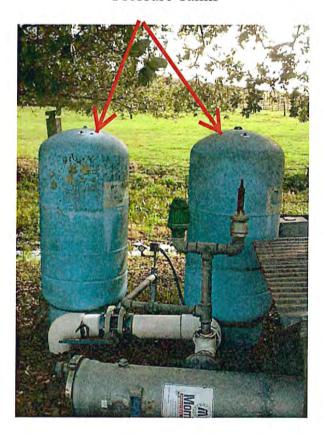


Pond Pump Disconnect



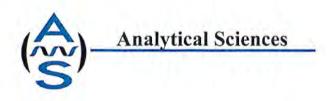


Pressure Tanks



Main Shut Off Valve





Report Date: January 06, 2016

Laboratory Report

Nick Brasesco Ray's Well Testing Service 4853 Vine Hill Rd Sebastopol, CA 95472

Project Name: 3201 Napa Rd.

Lab Project Number: 5122902

This 5 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



Total Coliform & E. Coli

Lab#	Sample ID	Compound Name		Result (MPN/1	00 mL)	RDL (MPN/100 mL)
5122902-01 Pond Well - Raw	Pond Well - Raw	Total Coliform		6		1
	E. Coli	<1	QT	1		
Date Sampled:	12/28/15	Date Analyzed:	12/30/15		QC B	atch: B015329
Date Received:	12/29/15	Method:	SM 9223 B-200)4		

Metals by Graphite Furnace

Lab#	Sample ID	Compound Name		Result (µg/L)	RDL (μg/L)	
5122902-01	Pond Well - Raw	Arsenic (As)		14	2.0	
Date Sampled:	12/28/15	Date Analyzed:	01/04/16	QC	Batch: B015322	
Date Received:	12/29/15	Method:	EPA 200.9			

Metals (ug/L)

Lab#	Sample ID	Compound Name		Result (μg/L)	RDL (µg/L)
5122902-01	Pond Well - Raw	Zinc (Zn)		ND	50
Date Sampled:	12/28/15	Date Analyzed:	01/05/16	QC I	Batch: B015344
Date Received:	12/29/15	Method:	EPA 200.7		

Metals (mg/L)

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)	
5122902-01	Pond Well - Raw	Boron (B) Sodium (Na)		1.2 110	0.050 2.0	
Date Sampled:	12/28/15	Date Analyzed:	01/05/16	Q	C Batch: B015344	
Date Received:	12/29/15	Method:	EPA 200.7			



Hardness

Lab#	Sample ID	Compound Name	1.0	Result (mg/L)	RDL (mg/L)
5122902-01 Pond Well - Raw	Calcium (Ca)		4.0	0.25	
		Magnesium (Mg)		1.3	0.10 1.0
		Hardness	16		
Date Sampled:	12/28/15	Date Analyzed:	01/05/16	QC	Batch: B015344
Date Received:	12/29/15	Method:	SM 2340 B-2011		

Alkalinity

Lab#	Sample ID	Compound Name		Result (mg CaC03/L)	RDL (mg CaC03/L)
5122902-01	Pond Well - Raw	Total Alkalinity		180	5.0
		Bicarbonate Alkalinity		180	5.0
		Carbonate Alkalinity		ND	5.0
		Hydroxide Alkalinity		ND	5.0
Date Sampled:	12/28/15	Date Analyzed:	12/29/15		QC Batch: B015316
Date Received:	12/29/15	Method:	SM 2320 B-2011		

Anions

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122902-01	Pond Well - Raw	Chloride		45	1.0
		Sulfate as SO4		23	2,5
Date Sampled:	12/28/15	Date Analyzed:	12/31/15	QC	Batch: B015334
Date Received:	12/29/15	Method:	EPA 300.0		

Total Dissolved Solids

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122902-01	Pond Well - Raw	Total Dissolved Solids		370	10
Date Sampled:	12/28/15	Date Analyzed:	01/04/16		QC Batch: B015338
Date Received:	12/29/15	Method:	SM 2540 C-2011		



Sodium Absorption Ratio

Lab#	Sample ID	Compound Name		Result (SAR)	RDL (SAR)	
5122902-01	Pond Well - Raw	Sodium Absorption Ratio (SAR)		12.6	0.00	
Date Sampled:	12/28/15	Date Analyzed:	01/05/16	QCI	Batch: B015344	
Date Received:	12/29/15	Method:	SAR by Calculation			



Notes and Definitions

QT The bacterial test utilized is a quantitative test. A result of less than 1 (<1) is indicating bacteria are "absent" in 100 milliliters of sample water.

RDL Reporting Detection Limit

ND Analyte NOT DETECTED at or above the reporting detection limit (RDL)

RPD Relative Percent Difference

NR Not Reported

Please Note: The drinking water Maximum Contamination Limits (MCL) set by the California Department of Health Services are as follows:

Arsenic (10 ug/L) Iron (300 ug/L) Manganese (50 ug/L) Nitrate (45 mg/L) Lead (15 ug/L) Total Coliform (<1 MPN/100 mL)



Phone: (707) 823-3191 Fax: (707) 317-0057 Email: rayswelltesting@gmail.com Address: 4853 Vine Hill Rd, Sebastopol Ca 95472 CA Lic. #: 903708

Report of Water Analysis

DATE: 12/21/15

CUSTOMER NAME: Black Trust

PROPERTY ADDRESS: 3201 Napa Rd Sonoma CA 95476

PARAMETER	RESULT		RESIDENTIAL STANDARDS
MELINICIAN.	Raw - Well	-	
РН	7.72		< 7 Increasingly acidic - may be corrosive 6.8 to 8.5 - Recommended Range >7 Increasingly alkaline - scaling may occur
TOTAL IRON	ND		0.3 mg/l - MCL
TOTAL MANGANESE	0.05 mg/l		0.05 mg/l – MCL
CONDUCTIVITY	554 us/cm		1600 us/cm- MCL
NITRATES	3.8 mg/l		45 mg/l (as N03)- MCL
SILICA	59 mg/l		*There is no drinking water MCL
VISUAL APPEARANCE	Clear		

^{*}Silica is increasingly reported as a nuisance at levels above 50 mg/l. 30 mg/l to 70 mg/l is common.

Abbreviations: MCL = Maximum Contaminant Level

mg/l = Milligrams Per Liter

us/cm = Microsiemens per centimeter

< = Less Than > = Greater Than NT = Not Tested ND = Not Detected

IMPORTANT INFORMATION ON THE LIMITATIONS OF THIS REPORT:

The purpose of this report is to provide information regarding the general mineralogical character of a water supply. Unless specifically noted, this report does not include analysis for bacteria or any other health related contaminants. This analysis alone is therefore not suitable for determining the safety of a drinking water supply. This report is intended for the sole and exclusive use of our client named above. Our liability for error or omissions is expressly limited to the amount paid for the analysis.



Ray's Well Testing Service Inc. 4853 Vine Hill Rd, Sebastopol Ca 95472 Phone 707 823 3191 Fax 707 317 0057 Lic# 903708

CUSTOMER INFORMATION

REPORT #: 7797-1 By: Matt Owens	DATE OF TEST: 12/21/15		
CUSTOMER NAME: Black Trust	CONTACT: Kyle Orth - 559 437 7648		
AGENT NAME: Eric Frost - Century 21 Bundesen	CONTACT: 707 484 1292		
PROPERTY ADDRESS: 3201 Napa Rd, Sonoma CA 95476	SENT TO: eric.frost@bundesen.com		

WELL DATA

LOCATION OF WELL:	Main Well - To right of driveway in field near gate entrance
TYPE OF WELL:	Drilled
DEPTH OF COMPLETED WELL	: 785 Feet - as indicated by provided drill log
DIAMETER OF WELL CASING:	6" PVC with 8" PVC stub at surface
SANITARY WELL SEAL (PLAT	E SEAL AT OPENING OF WELL CASING): Yes
ANNULAR SEAL (IN-GROUND	SEAL OF BOREHOLE): 38' cement seal
PUMP HP AND TYPE: 1	0 HP 230V 3PH Submersible, 2.5" tee, #4-3 cable
DEPTH OF PUMP SUCTION: U	Jnknown - please refer to installer records

WATER PRODUCTION RESULTS

WATER LEVEL AT START (STATIC LEVEL):	117 Feet	FLOW RATE AT START:	84 GPM
FINAL PUMPING LEVEL:	457 Feet	FINAL FLOW RATE:	50.9 GPM
WATER LEVEL DRAWDOWN:	340 Feet	TOTAL LENGTH OF TEST:	2 Hours

CONSTANT PUMPING LEVEL INFORMATION

STABILIZED PUMPING LEVEL:	457 Feet	STABILIZED FLOW RATE (YIELD):	50.9 GPM
DURATION OF CONSTANT PUMPING LEVEL:	1 Hour	TOTAL YIELD:	3,054 gallons

WATER SYSTEM INSPECTION

WELL PUMP	Functional	TECHNICAL INFO: 50.7 GPM @ 100 PSI @ 266', 32.2 amps, sticker dated 1986
ELECTRICAL	Functional	TECHNICAL INFO: 50 amp 3 pole breaker in pump control panel
PRESSURE TANK	Functional	TECHNICAL INFO: see comments
STORAGE TANK	Functional	TECHNICAL INFO: 2500 gallon poly tank - fire protection only.
BOOSTER PUMP	None	TECHNICAL INFO:

WATER QUALITY TESTING

THE FOLLOWING SAMPLES ARE BEIL	NG ANALYZED. PLEASE REF	FER TO FOLLOW-UP REPORT FOR RESULTS.
Residential + Irrigation Package	DATED: 12/21/15	TURNAROUND: Standard - Due 1/8/16
Treated Arsenic (main house only)	DATED: 12/21/15	TURNAROUND: Standard - Due 1/8/16
	DATED:	TURNAROUND:
	DATED:	TURNAROUND:

SEE NEXT PAGE FOR FURTHER INFORMATION...

DATE: 12/21/15

ADDRESS: 3201 Napa Rd, Sonoma CA 95476

COMMENTS: Main Well

- 1. The recharge rate at the end of the test was 50.9 gallons per minute. This test may not represent the long term or seasonal yield.
- 2. The water had a tan haze for first hour and fifteen minutes of the test and was visibly clear for the remainder.
- 3. The well discharged a pinch of fine tan sand per 5 gallons for the first hour of the test.
- 4. The water was odor free for the duration of the test.
- 5. The well pump pressurizes 3- 86 gallon WX-302 pressure tanks dated 1990, 1987, and 1988 with 27, 30, and 30 psi air charges and 1-86 gallon WX-252 pressure tank dated 1977 with a 28 psi air charge. The operating pressure range is set 42 to 65 psi. This system pressurizes water for domestic use at the caretaker unit, pool house and main house. It also fills the fire storage tank and serves all landscape irrigation.
- 6. The caretaker unit treatment system includes a 10" x 54" Culligan Medallist media filter (media unknown, no plug to check level), a 10" x 54" Culligan Medallist water softener (brine tank 1/2 full), and a 12" x 42" media filter (no backwash valve).
- 7. The pool house treatment system includes a 10" x 42" Culligan medallist plus media filter (media unknown, no plug to check level), a 10" x 54" Culligan medallist plus water softener (brine tank 1/2 full), and a 12" x 42" media filter (no backwash valve).
- 8. The main house water treatment system includes a 10" x 54" Culligan media filter (media unknown, level not visible), a 10" x 54" Culligan water softener (brine 1/2 full), and a 12" x 42" media filter (no backwash valve).
- 9. There is a 1" Watts RP check valve on the landscape irrigation main to prevent siphoning of irrigation water.

Recommendations:

- 1. There is a valve that isolates the well pump from the pressure tank manifold. Recommend removing valve or locking handle to prevent accidental damage to pump.
- 2. The treated water at the main house tested acidic. Recommend contacting installer for repairs or additional equipment.
- 3. Arsenic was detected above the drinking water from the sample take direct from the well. Another sample was drawn post treatment at the main house indicates it was not detected. Recommend routine testing downstream of the equipment to determine when service is necessary to maintain a safe level. Recommend testing downstream of the other units at the poolhouse and caretaker house.

Thank you for allowing us to do your well inspection!

APPROVED BY: NICK BRASESCO

Vil Bress

Water levels and well depth are measured as feet below top of well casing unless otherwise noted.

All wells and springs are subject to seasonal and yearly changes in regards to water yield, production and quality. Wells may be influenced by creeks or other water sources and are likely to yield less water during dry months of the year; typically August, September, & October. We make no predictions of future water production or water quality.

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Well Head



Pressure Tanks



Well Pump Control Panel



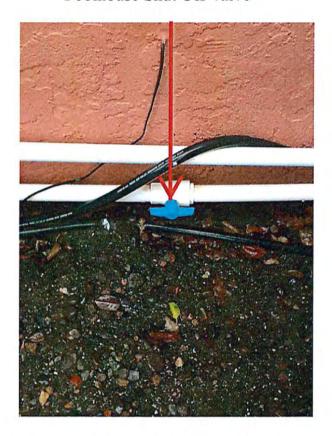
Caretaker Unit Treatment System



Caretaker Unit Shut Off Valve



Poolhouse Shut Off Valve



Poolhouse Treatment System



Main House Treatment System



Main House Shut Off Valve



Irrigation Shut Off Valve



Irrigation RP Check Valve



Fire Storage Tank

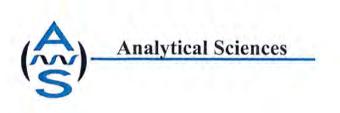


Wet Draft Hydrant



Old Well (not tested or inspected)





Report Date: January 04, 2016

Laboratory Report

Nick Brasesco Ray's Well Testing Service 4853 Vine Hill Rd Sebastopol, CA 95472

Project Name:

3201 Napa Rd.

Lab Project Number:

5122214

This 5 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



Total Coliform & E. Coli

Lab#	Sample ID	Compound Name		Result (MPN/1	00 mL)	RDL (MPN/100 mL)
5122214-01	Main Well- Treated	Total Coliform		<1	QT	1
		E. Coli		<1	QT	1
Date Sampled:	12/21/15	Date Analyzed:	12/23/15		QC B	atch: B015329
Date Received:	12/22/15	Method:	SM 9223 B-200)4		

Metals by Graphite Furnace

Lab#	Sample ID	Compound Name		Result (μg/L)	RDL (μg/L)
5122214-01	Main Well- Treated	Arsenic (As)		ND	2.0
Date Sampled:	12/21/15	Date Analyzed:	12/29/15	QC I	Batch: B015298
Date Received:	12/22/15	Method:	EPA 200.9		

Metals by Graphite Furnace

Lab#	Sample ID	Compound Name		Result (μg/L)	RDL (μg/L)
5122214-02	Main Well - Raw	Arsenic (As)		34	10
Date Sampled:	12/21/15	Date Analyzed:	12/29/15	QC	Batch: B015298
Date Received:	12/22/15	Method:	EPA 200.9		

Metals (ug/L)

Lab#	Sample ID	Compound Name		Result (μg/L)	RDL (μg/L)
5122214-02	Main Well - Raw	Zinc (Zn)		170	50
Date Sampled:	12/21/15	Date Analyzed:	12/30/15	Q	C Batch: B015315
Date Received:	12/22/15	Method:	EPA 200.7		



Metals (mg/L)

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122214-02	Main Well - Raw	Boron (B)		0.63	0.050
		Sodium (Na)		63	2.0
Date Sampled:	12/21/15	Date Analyzed:	12/30/15	QC	Batch: B015315
Date Received:	12/22/15	Method:	EPA 200.7		

Hardness

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122214-02	Main Well - Raw	Calcium (Ca)		2.2	0.25
		Magnesium (Mg)		0.73	0.10
		Hardness		36	1.0
Date Sampled:	12/21/15	Date Analyzed:	12/30/15	QC	Batch: B015315
Date Received:	12/22/15	Method:	SM 2340 B-2011		

Alkalinity

Lab#	Sample ID	Compound Name		Result (mg CaC03/L)	RDL (mg CaC03/L)
5122214-02	Main Well - Raw	Total Alkalinity		120	5.0
		Bicarbonate Alkalinity		120	5.0
		Carbonate Alkalinity		ND	5.0
		Hydroxide Alkalinity		ND	5.0
Date Sampled:	12/21/15	Date Analyzed:	12/29/15	Q	C Batch: B015316
Date Received:	12/22/15	Method:	SM 2320 B-201	1	



Anions

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122214-02	Main Well - Raw	Chloride		21	0.40
		Sulfate as SO4		11	0.50
Date Sampled:	12/21/15	Date Analyzed:	12/29/15	QC Batch: B015334	
Date Received:	12/22/15	Method:	EPA 300.0		

Total Dissolved Solids

Lab#	Sample ID	Compound Name		Result (mg/L)	RDL (mg/L)
5122214-02	Main Well - Raw	Total Dissolved Solids		260	10
Date Sampled:	12/21/15	Date Analyzed:	12/29/15	QCI	Batch: B015338
Date Received:	12/22/15	Method:	SM 2540 C-2011		

Sodium Absorption Ratio

Lab#	Sample ID	Compound Name		Result (SAR)	RDL (SAR)
5122214-02	Main Well - Raw	Sodium Absorption Ratio (SAR)	4.62	0.00
Date Sampled:	12/21/15	Date Analyzed:	12/30/15	QC I	Batch: B015315
Date Received:	12/22/15	Method:	SAR by Calculation		



Notes and Definitions

QT The bacterial test utilized is a quantitative test. A result of less than 1 (<1) is indicating bacteria are

"absent" in 100 milliliters of sample water.

RDL Reporting Detection Limit

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RPD Relative Percent Difference

NR Not Reported

Please Note: The drinking water Maximum Contamination Limits (MCL) set by the California Department of Health Services are as follows:

Arsenic (10 ug/L) Iron (300 ug/L) Manganese (50 ug/L) Nitrate (45 mg/L) Lead (15 ug/L) Total Coliform (<1 MPN/100 mL)

Lab Project#: 5122214 CA Lab Accreditation #: 2303



Phone: (707) 823-3191 Fax: (707) 317-0057 Email: rayswelltesting@gmail.com Address: 4853 Vine Hill Rd, Sebastopol Ca 95472 CA Lic. #: 903708

Report of Water Analysis

DATE: 12/21/15

CUSTOMER NAME: Black Trust

PROPERTY ADDRESS: 3201 Napa Rd Sonoma CA 95476

PARAMETER	RE	SULT	RESIDENTIAL STANDARDS
TAKAMETEK	Raw - Well	Main house	RESIDENTIAL STANDARDS
РН	7.54	6.55	< 7 Increasingly acidic - may be corrosive 6.8 to 8.5 - Recommended Range >7 Increasingly alkaline - scaling may occur
TOTAL IRON	0.39 mg/l	0.08 mg/l	0.3 mg/l - MCL
TOTAL MANGANESE	0.07 mg/l	0.04 mg/l	0.05 mg/l – MCL
CONDUCTIVITY	321 us/cm	496 us/cm	1600 us/cm- MCL
NITRATES	2.1 mg/l	NT	45 mg/l (as N03)- MCL
SILICA	90 mg/l	NT	*There is no drinking water MCL
VISUAL APPEARANCE	Clear	Clear	

^{*}Silica is increasingly reported as a nuisance at levels above 50 mg/l. 30 mg/l to 70 mg/l is common.

Abbreviations: MCL = Maximum Contaminant Level

mg/l = Milligrams Per Liter

us/cm = Microsiemens per centimeter

< = Less Than > = Greater Than NT = Not Tested ND = Not Detected

IMPORTANT INFORMATION ON THE LIMITATIONS OF THIS REPORT:

The purpose of this report is to provide information regarding the general mineralogical character of a water supply. Unless specifically noted, this report does not include analysis for bacteria or any other health related contaminants. This analysis alone is therefore not suitable for determining the safety of a drinking water supply. This report is intended for the sole and exclusive use of our client named above. Our liability for error or omissions is expressly limited to the amount paid for the analysis.

ANALYTICAL SCIENCES

AGRICULTURAL SUITABILITY

Parameter	Ranges			
Alkalinity	<100 ppm may be corrosive 100-200 ppm ideal >150 ppm scaling may occur			
Boron	<0.5 ppm safe 0.5-1.0 ppm potential problems with sensitive crops 1.0-2.0 ppm semi tolerant crops 2.0-10 ppm tolerant crops			
Chloride	<70 ppm generally safe for plants 70-140 ppm Sensitive Plants 140-350 ppm Moderately Tolerant Plants show injury >350 ppm Can cause severe problems >250 ppm Corrosion salty taste			
Conductivity	<750 uS/cm suitable 750-2000 uS/cm ok may need soil leaching >2000 uS/cm not suitable			
Hardness	150-300 ppm moderate plugging >300 ppm severe plugging			
Iron	0.15-0.22 ppm potential hazard for drip systems 0.2-1.5 ppm moderate clogging hazard >0.5 ppm should not be used for drip irrigation without treat >1.5 ppm severe clogging			
Manganese	<0.1 ppm slight 0.1-1.5 ppm moderate clogging >1.5 ppm severe			
Nitrate	45 ppm Drinking Water MCL can use nitrate number for conversion into nitrogen fertilizer requirements for crops			
рН	6.0-7.0 most desirable			
SAR	<1 excellent <2 good <3 fair >4 poor			
Silica	1-100 ppm common well water ranges scaling can occur at high levels			
Sodium	<50 ppm is desirable			
TDS	<500 ppm is desirable (MCL = 500)			