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Water Availability Analysis

White Rock Vineyards Use Permit P20-00142
Zoning Administrator Hearing June 30, 2021

CONDOR EARTH
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Condor Project No. 7879

December 22, 2020

Christopher Vandendriessche
White Rock Vineyards
1112 Loma Vista Drive
Napa, CA 94558

Subject: Water Availability Analysis
White Rock Vineyards
1112 Loma Vista Drive
Napa County APNs 039-680-004

Dear Mr. Vandendriessche:

Condor Earth (Condor) prepared this Water Availability Analysis (WAA) for your proposed project (Project), located at 1112 Loma Vista Drive, in Napa County, CA (Figure 1, Attachment A). Condor performed this WAA in accordance with the *Napa County Water Availability Analysis (WAA) – Guidance Document (Guidance)*, adopted May 12, 2015. The work was overseen by a California Professional Geologist.

Condor understands that White Rock Vineyards is in the process with the Napa County Planning Department to request acknowledgement of the existing baseline visitation and adoption of an intermittent marketing activities, with no increase to winery production their facilities at APN 039-680-004 (Winery Parcel). This WAA evaluates the construction of a new Project well on the Winery Parcel, see Figure 3 for the location.

This WAA includes a Tier 1 and Tier 2 evaluation as required by the Guidance. The first tier of the WAA, Tier 1 – *Water Use* is required by all WAAs and analyzes the Project's groundwater water use and the estimated groundwater recharge from precipitation. The recharge criterion is parcel-specific based on available annual recharge and parcel size.

The second-tier evaluation, Tier 2 – *Well and Spring Interference* is required because the Project is located outside Napa Valley Floor and the identified groundwater deficient areas of Napa County including the Milliken-Sarco-Tulucay areas. The well and spring interference criteria are presumptively met if setback from non-project wells is 500 feet, and setback from springs that are being used for domestic or agricultural purposes is 1,500 feet.

The third-tier evaluation, Tier 3 – *Groundwater/Surface Water Interaction* is not required and thus not included in this WAA. If later required by Napa County Planning, Building and Environmental Services (PBES), a Tier 3 evaluation will be performed after the proposed Project is installed when well metrics such as well depth, screen interval and pump flow rate is known.

Condor concludes that estimated groundwater use at the Project will not exceed the natural recharge on the Project parcel in normal and dry years; the Tier 2 criterion is presumptively met[1] and the Tier 3 criterion is not required for this Project.

NARRATIVE OF PROPOSED PROJECT

The Project is located on an approximate 15-acre parcel, 7.3 acres of which is planted with wine grapes; currently all the wine is made with organic estate farmed grapes. The Applicant, Jeep Shed Inc. also owns the neighboring parcel APN 039-680-005 (Vineyard Parcel). The Vineyard Parcel measures an approximate 49 acres. The Vineyard Parcel has an existing well that serves the two houses on the property and irrigates all 36 acres of wine grapes spanning the two parcels.

The Project is entitled by a Small Winery Use Permit Exemption Use Permit[2]. The Permit was issued as a non-discretionary action because in 1987 a winery was an allowable use in this zoning district. The Project requests acknowledgement of the following existing daily uses:

Hours of Operation: 7 days per week, Monday – Sunday

Maximum number of persons per day: 19 visitors

Maximum number of persons per week: 133

Time of operation: 10 am – 6 pm

Number of employees: 4.5 FTE

Existing Winery Production: 20,000 gallons per year (no change)

The Project also requests the following marketing allowances: (1) participation in Evans Bill (AB 2006) on site consumption within indoor and outdoor tasting areas; (2) the option of food and wine pairing as part of the daily wine tastings consistent with the definition of marketing, and (3) adoption of a marketing plan, in addition to the food and wine pairing events, to accommodate 10 events per year of 30 people and one annual event of 75 people with catered food.

WATER USE CRITERION INCLUDING ESTIMATED RECHARGE

Water Use – Methods

To estimate the average and dry year annual recharge occurring on the Project parcel, Condor used climate data from a 30-year record (1989 – 1990 to 2019 – 2020) listed in the California Irrigation Management Information System (CIMIS) for Station #77, Oakville, located approximately 7 miles northwest of the Project (Attachment C). Condor used a water-year of October 1 to September 30. We omitted data from water-year 2017 – 2018 due to suspect precipitation datapoints. During the 2017 – 2018 water-years the Oakville CIMIS station recorded many zero or near zero monthly precipitation values compared to other nearby CIMIS stations and the PRISM climate dataset. To eliminated data outliers, we omitted the year with the wettest (1994 – 1995) and driest (2019 – 2020) records available.

Normal (average year) and dry year annual rainfall at the Project site are 33.5 inches and 13.9 inches, respectively. The WAA guidance does not specify what defines a "dry" year, so Condor used the water-year with the least precipitation since the dataset began after removing outliers. Our groundwater recharge estimate uses a recharge ratio of 12 percent derived as an average[3] in the Napa area. A ratio of 12 percent

[1] Page 8, Paragraph 5, WAA Guidance: "When applicable (see Table 1), the Tier 2 well interference criterion is presumptively met if there are no non-project wells located within 500 feet of the existing or proposed project well(s)"
[2] Small Winery Exemption Permit approved January 9, 1987 which allows annual production capacity of 20,000 gallons per year, a 3,000 square foot cave, four parking spaces, visitation up to 10 people per week, two full time employees, and retail sales
[3] Table 8-9 Updated Hydrogeologic Conceptualization and Characterization of Conditions Prepared for Napa County, January 2013

is appropriate for gently sloping parcels with a top layer of alluvium such as a majority land on both Winery and Vineyard Parcels.

Water Use – Demand

The groundwater use on the Winery Parcel is estimated be 0.58 acre-feet (AF) annually. The groundwater use on the Vineyard Parcel is estimated to be 9.95 AF annually. The combined groundwater use is estimated at 10.53 AF annually. The proposed Project water use is detailed in Attachment B.

Estimated Recharge – Winery Parcel

The Winery Parcel totals approximately 15 acres; the normal and dry year precipitations at this location are 33.5 and 13.9 inches respectively. Thus, the total annual volume of precipitation falling on the Winery Parcel is 41.9 AF in a normal year and 17.4 AF in the dry year. Utilizing a recharge ratio of 12 percent, this yields 5.0 AF of groundwater recharge in normal years and 2.1 AF in the dry year. Compared to the proposed water use, the parcel will recharge approximately 8.7 times more groundwater than will be used in a normal year and 3.6 times more water than will be used in the driest year. Condor concludes that the Project meets the water use criterion.

Estimated Recharge – Vineyard Parcel

The Vineyard Parcel totals approximately 49 acres; the normal and dry year precipitations at this location are 33.5 and 13.9 inches respectively. Thus, the total annual volume of precipitation falling on the Vineyard Parcel is 136.2 AF in a normal year and 56.5 AF in the dry year. Utilizing a recharge ratio of 12 percent, this yields 16.3 AF of groundwater recharge in normal years and 6.8 AF in the dry year. Compared to the proposed water use, the parcel will recharge approximately 0.9 times more groundwater than will be used in a normal year and 0.4 times more water than will be used in the driest year.

Combined Estimated Recharge – Vineyard Parcel and Winery Parcel

The Vineyard Parcel and Winery Parcel combined total approximately 64 acres; the normal and dry year precipitations at this location are 33.5 and 13.9 inches respectively. Thus, the total annual volume of precipitation falling on the combined parcels is 178.3 AF in a normal year and 74.0 AF in the dry year. Utilizing a recharge ratio of 12 percent, this yields 21.4 AF of groundwater recharge in normal years and 8.9 AF in the dry year. Compared to the proposed water use, the parcel will recharge approximately 1.1 times more groundwater than will be used in a normal year and 0.5 times more water than will be used in the driest year.

WELL AND SPRING SETBACK

Condor performed a public record search for wells and springs within the prescriptive radii by requesting information from the California Department of Water Resources and well and septic records from Napa PBES. Condor reviewed records from a total of 23 nearby APNs. Condor found records for 13 wells in the area, but none are within 500 feet of the proposed Project well. Condor also interviewed Project owners and conducted a visual inspection of wells from public right of ways. Condor concludes the Project meets the Tier 2 criterion is presumptively met.

LIMITATIONS AND CLOSURE

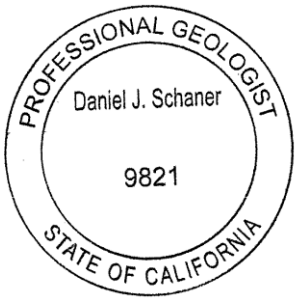
Condor has endeavored to determine as much as practicable about the site using conventional practices given our scope of services. Conclusions presented in this report are professional opinions based on limited information obtained at the time work was performed. If changes are made or errors found in the information used for this report, the interpretations and conclusions contained herein shall not be considered valid unless the changes or errors are reviewed by Condor and either appropriately modified or re-approved

in writing. Condor's involvement in the work performed at this site has been limited to evaluating published data provided by State, County and private sources. Condor is not responsible for the accuracy and completeness of information collected and developed by others.

Condor prepared this report under the direct supervision of a Professional Geologist registered in the State of California. The report was prepared for Christopher Vandendriessche and White Rock Vineyards (Client). It is for the sole use of Client. The contents of this report may not be used or relied upon by any other person(s) without the express written consent and authorization of Client and Condor. Any questions regarding the content of this document should be addressed to Daniel Schaner 209.532.0361.

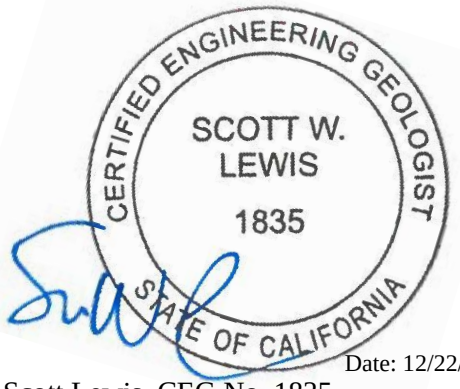
Sincerely,

CONDOR EARTH



Date: 12/22/2020

Daniel Schaner PG No. 9821
Associate Geologist



Date: 12/22/2020

Scott Lewis, CEG No. 1835
Principal Engineering Geologist

Attachments

Attachment A – Figures
Attachment B – Water Use Estimate
Attachment C – Historical Tabulated Climate Data and Recharge Calculations

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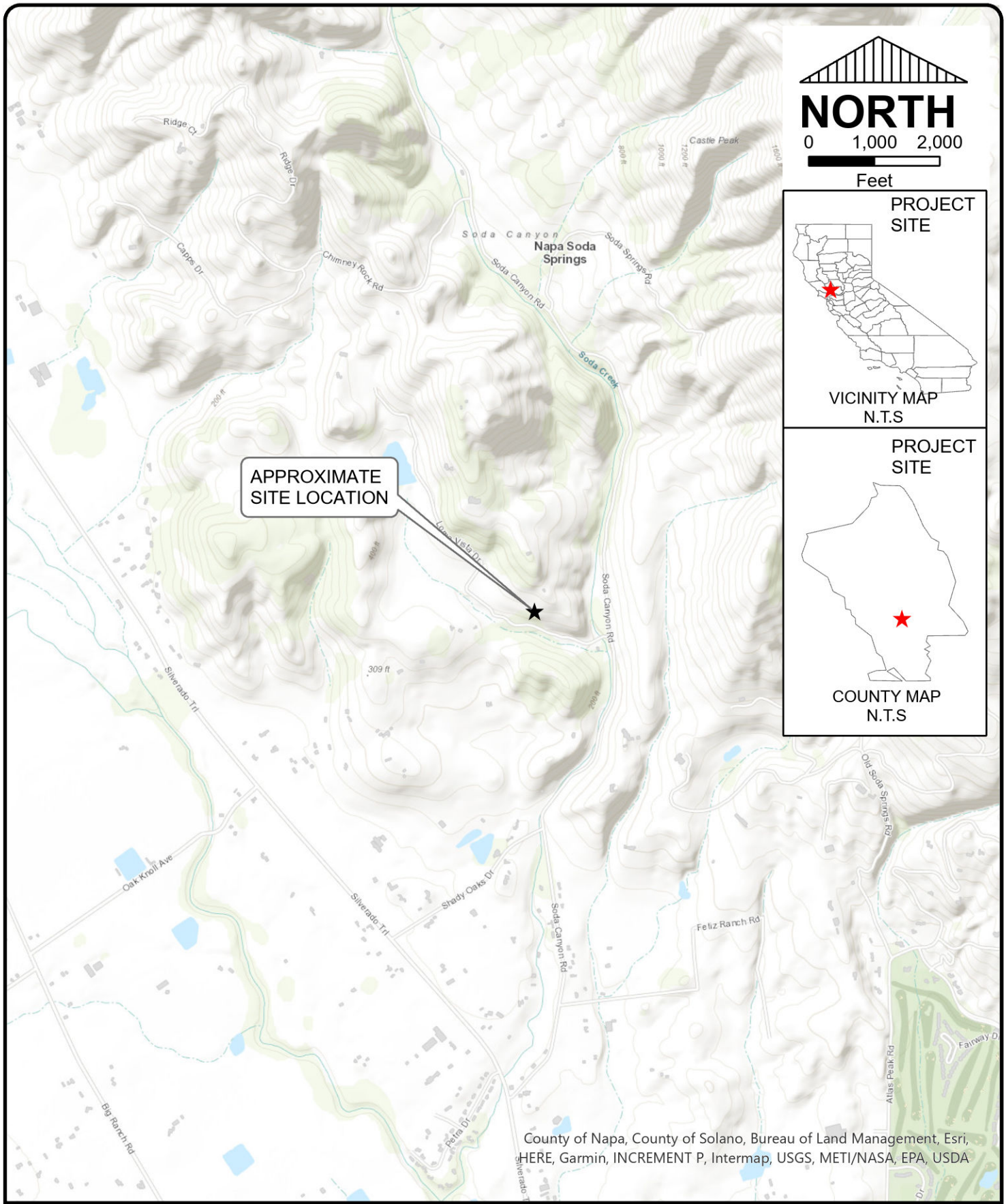
ATTACHMENT A
Figures



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Job No.	7879
Date	25 Nov 2020
Scale	AS SHOWN
Drawn	JW
Chk'd	DS

VICINITY MAP
WATER AVAILABILITY ANALYSIS
1115 LOMA VISTA DRIVE
NAPA, CALIFORNIA 94558

FIGURE 1

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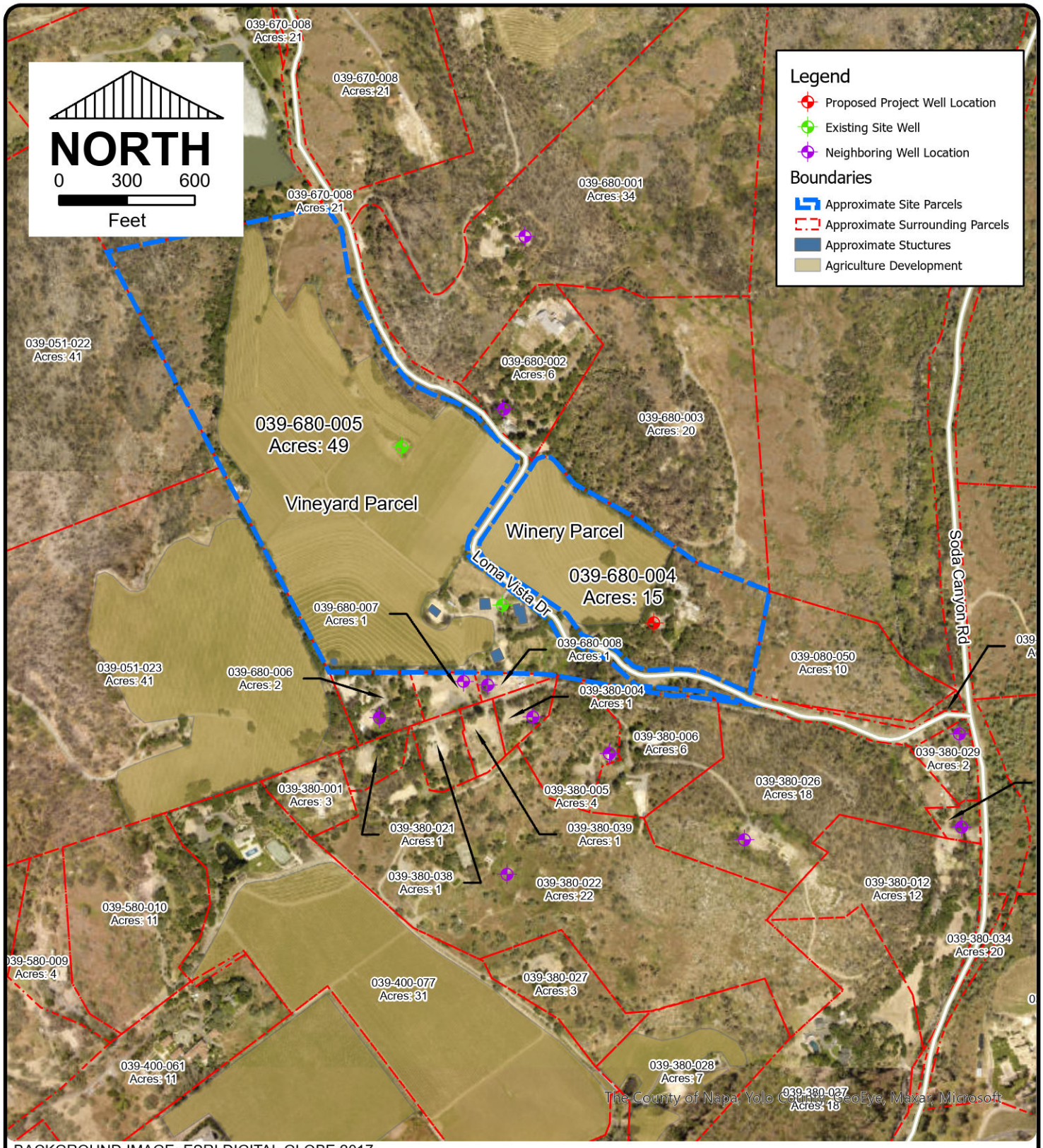

BACKGROUND IMAGE: ESRI DIGITAL GLOBE 2017
DISCLAIMER: THIS PLAN REPRESENTS FEATURES FOR ILLUSTRATION PURPOSES ONLY. IT IS NOT A LEGAL SURVEY OR CONSTRUCTION DOCUMENT AND IS NOT INTENDED FOR USE IN DETERMINING BOUNDARIES OR DIMENSIONS. ANY USE OF THIS PLAN FOR PURPOSES OTHER THAN FOR APPROXIMATE LOCATION OF FEATURES IS DONE SO AT THE USER'S RISK AND WITHOUT THE CONSENT OF CONDOR EARTH.

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Job No.	7879
Date	17 Dec 2020
Scale	AS SHOWN
Drawn	JW
Chk'd	DS

PARCEL AND DEVELOPMENT INFORMATION MAP
WATER AVAILABILITY ANALYSIS
1115 LOMA VISTA DRIVE
NAPA, CALIFORNIA 94558

FIGURE 2

7879_Water_Availability_Analysis.aprx

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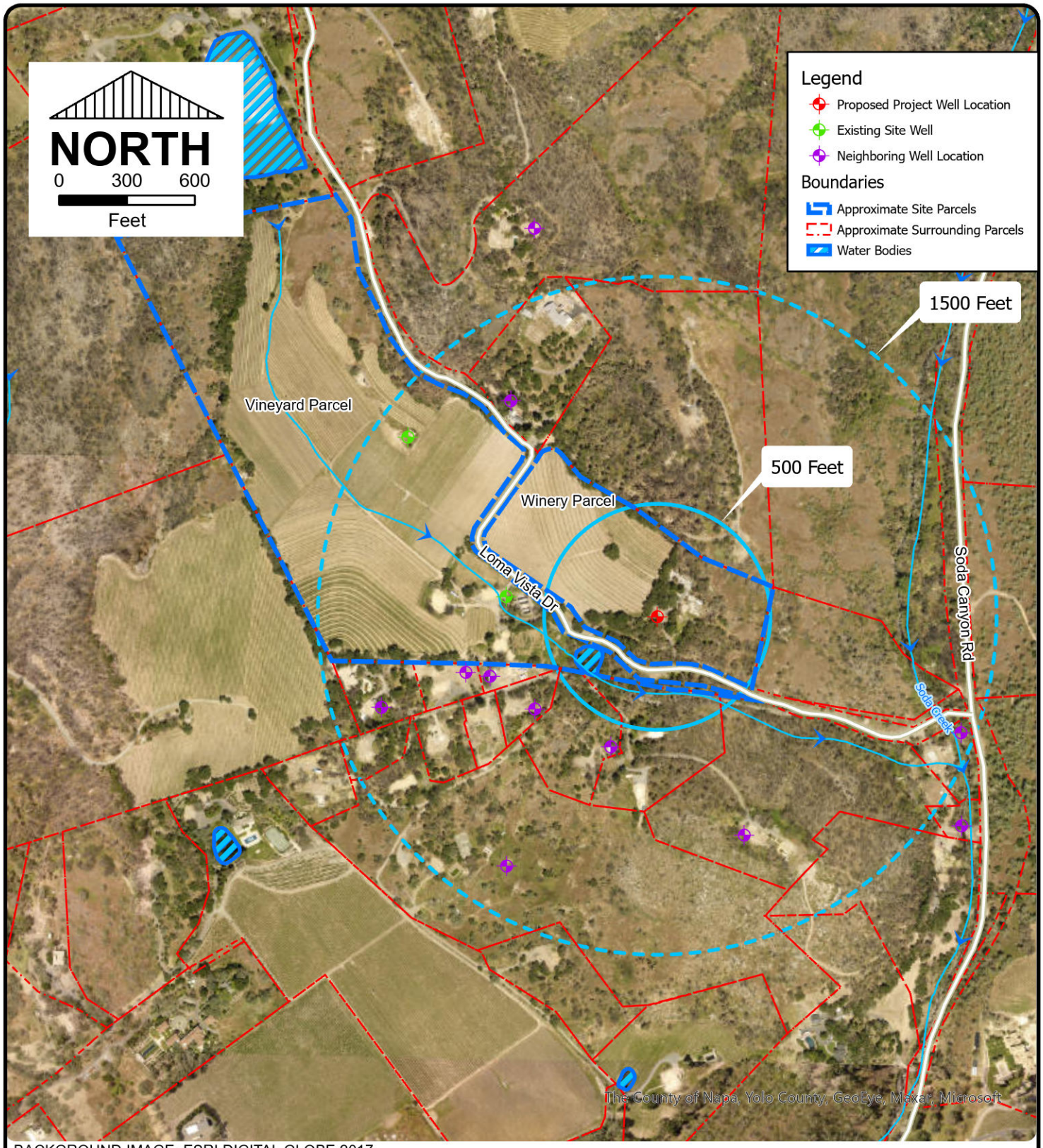

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WELL LOCATIONS MAP
WATER AVAILABILITY ANALYSIS
1115 LOMA VISTA DRIVE
NAPA, CALIFORNIA 94558

FIGURE 3

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ATTACHMENT B
Water Use Estimate

White Rock Vineyards

Groundwater Use Estimate

	Estimated Water Use (Acre-Feet / Year)		
	Vineyard Parcel	Winery Parcel	Combined Parcels
Residential Water Use			
Primary Residence[1]	0.750	0.000	0.750
Pool - Not Applicable	0.000	0.000	0.000
Second Dwelling Unit/FLD	0.200	0.000	0.200
Guest Cottage - Not Applicable	0.000	0.000	0.000
Total Residential Domestic Water Use	0.950	0.000	0.950
Winery Domestic & Process Water Use			
Winery - Daily Visitors[2][3]	0.000	0.064	0.064
Winery - Events with Meals Prepared Onsite[2][4]	0.000	0.000	0.000
Winery - Events with Meals Prepared Offsite[2][5]	0.000	0.006	0.006
Winery - Employees[2][6]	0.000	0.076	0.076
Winery - Event Staff[2][6]	0.000	0.002	0.002
Winery - Process[2][7]	0.000	0.430	0.430
Total Winery Water Use	0.000	0.577	0.577
Irrigation Water Use			
Lawn[8]	0.000	0.000	0.000
Other Landscape[9]	0.000	0.000	0.000
Vineyard - Irrigation[10]	9.000	0.000	9.000
Vineyard - Frost Protection - Not Applicable	0.000	0.000	0.000
Vineayrd - Heat Protection - Not Applicable	0.000	0.000	0.000
Total Irrigation Water Use	9.000	0.000	9.000
Total Combined Water Use	9.95	0.58	10.53

Estimates per Napa County Water Availability Analysis - Guidance Document, May 12, 2015 unless noted

[1]0.5 to 0.75 ac-ft/yr for Primary Residence, includes some landscaping per Napa County WAA Guidance Document

[2] See attached Winery Production, Guest, Employee and Event Staff Statistics

[3] 3 gallons of water per guest per Napa County WAA Guidance Document

[4] 15 gallons of water per guest per Napa County WAA - Guidance Document

[5] 5 gallons of water per guest used because all food preparation, dishwashing, etc. to occur offsite

[6]15 gallons per shift per Napa County WAA - Guidance Document

[7]2.15 ac-ft per 100,000 gallons wine per Napa County WAA - Guidance Document

[8]0.1 ac-ft/yr per 1,000 sf of lawn per Napa County WAA - Guidance Document - 0 +/- sf (minimal landscape at residences included in residence allotment above).

[9]0.1 ac-ft/yr per 2,000 sf landscape per Napa County WAA - Guidance Document - 0 +/- sf

[10]0.25 ac-ft per year per acre of vines per Applicant - 36 +/- acres

All vineyard demand is counted on the vineyard parcel because all vineyard water comes from that parcel.

White Rock Vineyards

Proposed Winery Production, Visitor, Employee & Event Staff Statistics

Winery Production[1]		20,000 gallons per year
Tours and Tastings by Appointment[1]		
Monday through Sunday	19 visitors per day	
Total Guests Per Year		6,935
Events - Meals Prepared Offsite[1]		
10 per year	30 guests max	300
1 per year	75 guests max	75
0 per year	0 guests max	0
Total Guests Per Year		375
Events - Meals Prepared Onsite[1]		
0 per year	0 guests max	0
0 per year	0 guests max	0
0 per year	0 guests max	0
Total Guests Per Year		0
Winery Employees[2]		
4.5 employees	1 shift per day	
Total Employee Shifts Per Year		1,643
Event Staff[3]		
10 per year, 30 guests	3 event staff	30
1 per year, 75 guests	8 event staff	8
0 per year, 0 guests	0 event staff	0
Total Event Staff Per Year		38

[1] Winery production, tours and tasting and event guest statistics per Applicant

[2] Employee counts per Applicant

[3] Assumes 1 event staff per 10 guests (in addition to regular winery employees)

ATTACHMENT C
Historical Tabulated Climate Data and Recharge Calculations

Historical Data Recharge Calculations		
White Rock Vineyards - Winery Parcel		
Water Availability Analysis		
Water demand (acre-feet)		**0.58**
Size of Parcel (acres)		**15**
Recharge Ratio (percent)		**12%**
	Normal Year	**Dry Year**
Annual Precipitation (inches)	33.5	13.9
Annual Precipitation (feet)	2.79	1.16
Annual Precipitation (acre-feet	41.9	17.4
Total Recharge (acre-feet)	5.0	2.1
Recharge to Demand Ratio	**8.7**	**3.6**

Historical Data Recharge Calculations		
White Rock Vineyards - Vineyard Parcel		
Water Availability Analysis		
Water demand (acre-feet)		**9.95**
Size of Parcel (acres)		**48.75**
Recharge Ratio (percent)		**12%**
	Normal Year	**Dry Year**
Annual Precipitation (inches)	33.5	13.91
Annual Precipitation (feet)	2.79	1.16
Annual Precipitation (acre-feet	136.2	56.5
Total Recharge (acre-feet)	16.3	6.8
Recharge to Demand Ratio	**1.6**	**0.7**

Historical Data Recharge Calculations		
White Rock Vineyards - Vineyard Parcels		
Water Availability Analysis		
Water demand (acre-feet)		**10.53**
Size of Parcel (acres)		**63.8**
Recharge Ratio (percent)		**12%**
	Normal Year	**Dry Year**
Annual Precipitation (inches)	33.5	13.91
Annual Precipitation (feet)	2.79	1.16
Annual Precipitation (acre-feet	178.3	74.0
Total Recharge (acre-feet)	21.4	8.9
Recharge to Demand Ratio	**2.0**	**0.8**

Historical Data Summary	
CIMIS Station 77 - Oakville	
Average Precipitation	33.53
Minimum Precipitation	13.91
Maximum Precipitation	60.29
Number of Years of Record	28

Historical Montly Data CIMIS Station 77 - Oakville		
Month Year	Total Precip (in)	Yearly Total (in)
Aug-89	5.19	20.05
Sep-89	1.39	
Oct-89	3.69	
Nov-89	2.25	
Dec-89	0.13	
Jan-90	0.84	
Feb-90	4.17	
Mar-90	1.19	
Apr-90	0.23	
May-90	4.3	
Jun-90	3.19	
Jul-90	0	
Aug-90	0	
Sep-90	0.06	
Oct-90	0.42	24.95
Nov-90	0.46	
Dec-90	0.95	
Jan-91	0.52	
Feb-91	4.29	
Mar-91	17.41	
Apr-91	0.69	
May-91	0.21	
Jun-91	0	
Jul-91	0	
Aug-91	0	
Sep-91	0	
Oct-91	0.01	25.52
Nov-91	1.18	
Dec-91	3.16	
Jan-92	2.42	
Feb-92	10.62	
Mar-92	6.57	
Apr-92	0.81	
May-92	0	
Jun-92	0.75	
Jul-92	0	
Aug-92	0	
Sep-92	0	

Oct-92	3.56	44.43
Nov-92	1.17	
Dec-92	11.11	
Jan-93	14.66	
Feb-93	8.89	
Mar-93	2.69	
Apr-93	1.77	
May-93	0.5	
Jun-93	0	
Jul-93	0	
Aug-93	0	
Sep-93	0.08	
Oct-93	1.81	24.41
Nov-93	3.69	
Dec-93	4.52	
Jan-94	4.18	
Feb-94	6.29	
Mar-94	0.83	
Apr-94	1.71	
May-94	1.35	
Jun-94	0	
Jul-94	0	
Aug-94	0	
Sep-94	0.03	
Oct-94	2.13	Data Omitted as Outler
Nov-94	7.64	
Dec-94	3.89	
Jan-95	27.24	
Feb-95	0.62	
Mar-95	19.45	
Apr-95	3.19	
May-95	1.81	
Jun-95	0.48	
Jul-95	0	
Aug-95	0	
Sep-95	0	
Oct-95	0.43	43.58
Nov-95	0.16	
Dec-95	8.9	
Jan-96	10.66	
Feb-96	10.97	
Mar-96	4.14	
Apr-96	4.84	
May-96	3.48	
Jun-96	0	
Jul-96	0	
Aug-96	0	
Sep-96	0	

Oct-96	1.28	39.42
Nov-96	4.18	
Dec-96	17.85	
Jan-97	13.25	
Feb-97	0.65	
Mar-97	0.98	
Apr-97	0.46	
May-97	0.5	
Jun-97	0.27	
Jul-97	0	
Aug-97	0	
Sep-97	0	
Oct-97	1.06	60.29
Nov-97	8.88	
Dec-97	3.88	
Jan-98	11.42	
Feb-98	24.52	
Mar-98	2.99	
Apr-98	3.08	
May-98	4.33	
Jun-98	0	
Jul-98	0	
Aug-98	0	
Sep-98	0.13	
Oct-98	0.8	31.27
Nov-98	7.74	
Dec-98	1.28	
Jan-99	3.34	
Feb-99	10.73	
Mar-99	4.36	
Apr-99	2.88	
May-99	0	
Jun-99	0.14	
Jul-99	0	
Aug-99	0	
Sep-99	0	
Oct-99	0	30.44
Nov-99	2.7	
Dec-99	0.63	
Jan-00	7.03	
Feb-00	13.42	
Mar-00	2.77	
Apr-00	2.04	
May-00	1.52	
Jun-00	0.16	
Jul-00	0	
Aug-00	0.01	
Sep-00	0.16	

Oct-00	3.4	
Nov-00	1.19	
Dec-00	1.13	
Jan-01	6.46	
Feb-01	8.84	
Mar-01	3.23	25.39
Apr-01	1.06	
May-01	0.03	
Jun-01	0.05	
Jul-01	0	
Aug-01	0	
Sep-01	0	
Oct-01	0.86	
Nov-01	8.85	
Dec-01	14.62	
Jan-02	4.63	
Feb-02	1.99	
Mar-02	2.89	35.79
Apr-02	0.44	
May-02	1.49	
Jun-02	0	
Jul-02	0.01	
Aug-02	0.01	
Sep-02	0	
Oct-02	0.03	
Nov-02	4.44	
Dec-02	21.28	
Jan-03	2.97	
Feb-03	2.45	
Mar-03	3.83	44.59
Apr-03	7.09	
May-03	2.42	
Jun-03	0.03	
Jul-03	0.05	
Aug-03	0	
Sep-03	0	
Oct-03	0	
Nov-03	3.54	
Dec-03	13.51	
Jan-04	4.22	
Feb-04	11.11	
Mar-04	1.25	34.69
Apr-04	0.52	
May-04	0	
Jun-04	0.51	
Jul-04	0	
Aug-04	0.02	
Sep-04	0.01	

Oct-04	4.22	
Nov-04	2.6	
Dec-04	12.78	
Jan-05	7.01	
Feb-05	5.73	
Mar-05	5.47	44.29
Apr-05	0.99	
May-05	4.91	
Jun-05	0.58	
Jul-05	0	
Aug-05	0	
Sep-05	0	
Oct-05	0	
Nov-05	0.64	
Dec-05	18.19	
Jan-06	7.67	
Feb-06	5.09	
Mar-06	11.15	49.75
Apr-06	6.96	
May-06	0.04	
Jun-06	0.01	
Jul-06	0	
Aug-06	0	
Sep-06	0	
Oct-06	0.29	
Nov-06	3.04	
Dec-06	6.7	
Jan-07	0.58	
Feb-07	8.23	
Mar-07	0.4	21.84
Apr-07	1.48	
May-07	0.5	
Jun-07	0	
Jul-07	0.04	
Aug-07	0	
Sep-07	0.58	
Oct-07	2.44	
Nov-07	0.88	
Dec-07	4.26	
Jan-08	16.75	
Feb-08	3.21	
Mar-08	0.14	27.85
Apr-08	0.17	
May-08	0	
Jun-08	0	
Jul-08	0	
Aug-08	0	
Sep-08	0	

Oct-08	0.66	25.47
Nov-08	1.06	
Dec-08	3.38	
Jan-09	0.44	
Feb-09	13.19	
Mar-09	3.53	
Apr-09	0.48	
May-09	2.48	
Jun-09	0.03	
Jul-09	0	
Aug-09	0	
Sep-09	0.22	
Oct-09	5.39	37.15
Nov-09	0.99	
Dec-09	2.84	
Jan-10	12.26	
Feb-10	5.07	
Mar-10	3.47	
Apr-10	5.17	
May-10	1.96	
Jun-10	0	
Jul-10	0	
Aug-10	0	
Sep-10	0	
Oct-10	3.81	47.60
Nov-10	3.53	
Dec-10	10.96	
Jan-11	2.7	
Feb-11	7.5	
Mar-11	13.53	
Apr-11	0.32	
May-11	2.48	
Jun-11	2.77	
Jul-11	0	
Aug-11	0	
Sep-11	0	
Oct-11	1.88	22.71
Nov-11	2.48	
Dec-11	0.36	
Jan-12	3.21	
Feb-12	2.1	
Mar-12	11.76	
Apr-12	0.92	
May-12	0	
Jun-12	0	
Jul-12	0	
Aug-12	0	
Sep-12	0	

Oct-12	0.9	26.91
Nov-12	10.55	
Dec-12	11.39	
Jan-13	0.95	
Feb-13	0.36	
Mar-13	1.98	
Apr-13	0.78	
May-13	0	
Jun-13	0	
Jul-13	0	
Aug-13	0	
Sep-13	0	
Oct-13	0	18.19
Nov-13	1.12	
Dec-13	0.81	
Jan-14	0.09	
Feb-14	11.51	
Mar-14	3.29	
Apr-14	0.88	
May-14	0	
Jun-14	0	
Jul-14	0	
Aug-14	0	
Sep-14	0.49	
Oct-14	0.88	21.08
Nov-14	2.51	
Dec-14	9.75	
Jan-15	0.07	
Feb-15	5.43	
Mar-15	0.05	
Apr-15	1.84	
May-15	0.21	
Jun-15	0.09	
Jul-15	0.07	
Aug-15	0	
Sep-15	0.18	
Oct-15	0	13.91
Nov-15	1.36	
Dec-15	3.14	
Jan-16	3.8	
Feb-16	0	
Mar-16	5.04	
Apr-16	0.55	
May-16	0.02	
Jun-16	0	
Jul-16	0	
Aug-16	0	
Sep-16	0	

Oct-16	5.13	51.22
Nov-16	2.72	
Dec-16	6.88	
Jan-17	19.94	
Feb-17	11.75	
Mar-17	3.82	
Apr-17	0.98	
May-17	0	
Jun-17	0	
Jul-17	0	
Aug-17	0	
Sep-17	0	
Oct-17	0.01	Suspect Data Not Inluded in Analysis
Nov-17	0	
Dec-17	0	
Jan-18	0	
Feb-18	0	
Mar-18	0	
Apr-18	0.61	
May-18	0.13	
Jun-18	0	
Jul-18	0	
Aug-18	0	
Sep-18	0.02	
Oct-18	1.43	45.98
Nov-18	5.31	
Dec-18	3.05	
Jan-19	9.78	
Feb-19	16.62	
Mar-19	5.73	
Apr-19	0.49	
May-19	3.5	
Jun-19	0	
Jul-19	0.01	
Aug-19	0	
Sep-19	0.06	
Oct-19	0.01	Data Omitted as Outlier
Nov-19	0.96	
Dec-19	2.6	
Jan-20	2.3	
Feb-20	0.04	
Mar-20	1.17	
Apr-20	1.02	
May-20	1.03	
Jun-20	0.01	
Jul-20	0.01	
Aug-20	0.06	
Sep-20	0.01	