ATTACHMENTS

ATTACHMENT 1

AIR QUALITY AND GHG MODEL RUNS

Hartman Complex

Lake County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Quality Restaurant	12.50	1000sqft	5.00	12,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	67
Climate Zone	1			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Sire Plan

Demolition - Parking Memo

Vehicle Trips - Trip Gen Memo

Grading -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	0.29	5.00
tblTripsAndVMT	HaulingTripNumber	63.00	62.00
tblVehicleTrips	ST_TR	94.36	41.92
tblVehicleTrips	SU_TR	72.16	41.92
tblVehicleTrips	WD_TR	89.95	41.92

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2764	2.5489	2.2771	3.8300e-003	0.0838	0.1349	0.2187	0.0412	0.1265	0.1677	0.0000	331.5869	331.5869	0.0801	0.0000	333.5882
2022	0.1596	0.1294	0.1710	2.7000e-004	1.1900e-003	6.6700e-003	7.8600e-003	3.2000e-004	6.2100e-003	6.5300e-003	0.0000	23.7078	23.7078	6.5900e-003	0.0000	23.8727
Maximum	**0.2764**	**2.5489**	**2.2771**	**3.8300e-003**	**0.0838**	**0.1349**	**0.2187**	**0.0412**	**0.1265**	**0.1677**	**0.0000**	**331.5869**	**331.5869**	**0.0801**	**0.0000**	**333.5882**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2764	2.5489	2.2771	3.8300e-003	0.0838	0.1349	0.2187	0.0412	0.1265	0.1677	0.0000	331.5865	331.5865	0.0801	0.0000	333.5878
2022	0.1596	0.1294	0.1710	2.7000e-004	1.1900e-003	6.6700e-003	7.8600e-003	3.2000e-004	6.2100e-003	6.5300e-003	0.0000	23.7078	23.7078	6.5900e-003	0.0000	23.8727
Maximum	**0.2764**	**2.5489**	**2.2771**	**3.8300e-003**	**0.0838**	**0.1349**	**0.2187**	**0.0412**	**0.1265**	**0.1677**	**0.0000**	**331.5865**	**331.5865**	**0.0801**	**0.0000**	**333.5878**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.8940	0.8940
2	4-1-2021	6-30-2021	0.6387	0.6387
3	7-1-2021	9-30-2021	0.6457	0.6457
4	10-1-2021	12-31-2021	0.6461	0.6461
5	1-1-2022	3-31-2022	0.2965	0.2965
		Highest	0.8940	0.8940

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0633	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Energy	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	166.8571	166.8571	5.5300e-003	2.2600e-003	167.6678
Mobile	0.2580	0.6456	1.9670	2.9900e-003	0.2309	4.7000e-003	0.2356	0.0620	4.4300e-003	0.0664	0.0000	271.3851	271.3851	0.0195	0.0000	271.8731
Waste						0.0000	0.0000		0.0000	0.0000	2.3161	0.0000	2.3161	0.1369	0.0000	5.7381
Water						0.0000	0.0000		0.0000	0.0000	1.2037	6.2191	7.4228	0.1239	2.9800e-003	11.4079
Total	**0.3292**	**0.7168**	**2.0269**	**3.4200e-003**	**0.2309**	**0.0101**	**0.2410**	**0.0620**	**9.8400e-003**	**0.0718**	**3.5199**	**444.4615**	**447.9813**	**0.2858**	**5.2400e-003**	**456.6872**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0633	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Energy	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	166.8571	166.8571	5.5300e-003	2.2600e-003	167.6678
Mobile	0.2580	0.6456	1.9670	2.9900e-003	0.2309	4.7000e-003	0.2356	0.0620	4.4300e-003	0.0664	0.0000	271.3851	271.3851	0.0195	0.0000	271.8731
Waste						0.0000	0.0000		0.0000	0.0000	2.3161	0.0000	2.3161	0.1369	0.0000	5.7381
Water						0.0000	0.0000		0.0000	0.0000	1.2037	6.2191	7.4228	0.1239	2.9800e-003	11.4079
Total	**0.3292**	**0.7168**	**2.0269**	**3.4200e-003**	**0.2309**	**0.0101**	**0.2410**	**0.0620**	**9.8400e-003**	**0.0718**	**3.5199**	**444.4615**	**447.9813**	**0.2858**	**5.2400e-003**	**456.6872**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/4/2021	5	5	
3	Grading	Grading	2/5/2021	2/16/2021	5	8	
4	Building Construction	Building Construction	2/17/2021	1/4/2022	5	230	
5	Paving	Paving	1/5/2022	1/28/2022	5	18	
6	Architectural Coating	Architectural Coating	1/29/2022	2/23/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,750; Non-Residential Outdoor: 6,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Hartman Complex - Lake County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	33.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	62.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**3.5900e-003**	**0.0155**	**0.0191**	**5.4000e-004**	**0.0144**	**0.0150**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.1200e-003	1.0900e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1794	1.1794	3.0000e-005	0.0000	1.1802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.6000e-004	7.9000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0615	1.0615	7.0000e-005	0.0000	1.0631
Total	**1.5100e-003**	**5.9800e-003**	**8.9900e-003**	**2.0000e-005**	**1.4600e-003**	**5.0000e-005**	**1.5100e-003**	**3.9000e-004**	**5.0000e-005**	**4.4000e-004**	**0.0000**	**2.2409**	**2.2409**	**1.0000e-004**	**0.0000**	**2.2433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**3.5900e-003**	**0.0155**	**0.0191**	**5.4000e-004**	**0.0144**	**0.0150**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.1200e-003	1.0900e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1794	1.1794	3.0000e-005	0.0000	1.1802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.6000e-004	7.9000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0615	1.0615	7.0000e-005	0.0000	1.0631
Total	**1.5100e-003**	**5.9800e-003**	**8.9900e-003**	**2.0000e-005**	**1.4600e-003**	**5.0000e-005**	**1.5100e-003**	**3.9000e-004**	**5.0000e-005**	**4.4000e-004**	**0.0000**	**2.2409**	**2.2409**	**1.0000e-004**	**0.0000**	**2.2433**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	9.6300e-003	2.0400e-003	2.0000e-005	5.2000e-004	8.0000e-005	6.0000e-004	1.4000e-004	8.0000e-005	2.2000e-004	0.0000	2.2158	2.2158	6.0000e-005	0.0000	2.2173
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.3700e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3184	0.3184	2.0000e-005	0.0000	0.3189
Total	**7.4000e-004**	**9.8900e-003**	**4.4100e-003**	**2.0000e-005**	**8.7000e-004**	**8.0000e-005**	**9.6000e-004**	**2.3000e-004**	**8.0000e-005**	**3.2000e-004**	**0.0000**	**2.5343**	**2.5343**	**8.0000e-005**	**0.0000**	**2.5362**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	9.6300e-003	2.0400e-003	2.0000e-005	5.2000e-004	8.0000e-005	6.0000e-004	1.4000e-004	8.0000e-005	2.2000e-004	0.0000	2.2158	2.2158	6.0000e-005	0.0000	2.2173
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.3700e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3184	0.3184	2.0000e-005	0.0000	0.3189
Total	**7.4000e-004**	**9.8900e-003**	**4.4100e-003**	**2.0000e-005**	**8.7000e-004**	**8.0000e-005**	**9.6000e-004**	**2.3000e-004**	**8.0000e-005**	**3.2000e-004**	**0.0000**	**2.5343**	**2.5343**	**8.0000e-005**	**0.0000**	**2.5362**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.5000e-004	3.1600e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4246	0.4246	3.0000e-005	0.0000	0.4252
Total	**5.3000e-004**	**3.5000e-004**	**3.1600e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4246**	**0.4246**	**3.0000e-005**	**0.0000**	**0.4252**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.5000e-004	3.1600e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4246	0.4246	3.0000e-005	0.0000	0.4252
Total	**5.3000e-004**	**3.5000e-004**	**3.1600e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4246**	**0.4246**	**3.0000e-005**	**0.0000**	**0.4252**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0665	264.0665	0.0637	0.0000	265.6592
Total	**0.2167**	**1.9873**	**1.8896**	**3.0700e-003**		**0.1093**	**0.1093**		**0.1028**	**0.1028**	**0.0000**	**264.0665**	**264.0665**	**0.0637**	**0.0000**	**265.6592**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2800e-003	0.0276	9.0000e-003	6.0000e-005	1.4900e-003	2.0000e-004	1.6800e-003	4.3000e-004	1.9000e-004	6.2000e-004	0.0000	5.5059	5.5059	2.5000e-004	0.0000	5.5122
Worker	5.0700e-003	3.2800e-003	0.0300	4.0000e-005	4.5000e-003	4.0000e-005	4.5400e-003	1.2000e-003	4.0000e-005	1.2300e-003	0.0000	4.0335	4.0335	2.5000e-004	0.0000	4.0398
Total	**6.3500e-003**	**0.0308**	**0.0390**	**1.0000e-004**	**5.9900e-003**	**2.4000e-004**	**6.2200e-003**	**1.6300e-003**	**2.3000e-004**	**1.8500e-003**	**0.0000**	**9.5395**	**9.5395**	**5.0000e-004**	**0.0000**	**9.5520**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0662	264.0662	0.0637	0.0000	265.6589
Total	**0.2167**	**1.9873**	**1.8896**	**3.0700e-003**		**0.1093**	**0.1093**		**0.1028**	**0.1028**	**0.0000**	**264.0662**	**264.0662**	**0.0637**	**0.0000**	**265.6589**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2800e-003	0.0276	9.0000e-003	6.0000e-005	1.4900e-003	2.0000e-004	1.6800e-003	4.3000e-004	1.9000e-004	6.2000e-004	0.0000	5.5059	5.5059	2.5000e-004	0.0000	5.5122
Worker	5.0700e-003	3.2800e-003	0.0300	4.0000e-005	4.5000e-003	4.0000e-005	4.5400e-003	1.2000e-003	4.0000e-005	1.2300e-003	0.0000	4.0335	4.0335	2.5000e-004	0.0000	4.0398
Total	**6.3500e-003**	**0.0308**	**0.0390**	**1.0000e-004**	**5.9900e-003**	**2.4000e-004**	**6.2200e-003**	**1.6300e-003**	**2.3000e-004**	**1.8500e-003**	**0.0000**	**9.5395**	**9.5395**	**5.0000e-004**	**0.0000**	**9.5520**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0156	0.0164	3.0000e-005		8.1000e-004	8.1000e-004		7.6000e-004	7.6000e-004	0.0000	2.3173	2.3173	5.6000e-004	0.0000	2.3311
Total	**1.7100e-003**	**0.0156**	**0.0164**	**3.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**2.3173**	**2.3173**	**5.6000e-004**	**0.0000**	**2.3311**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0480	0.0480	0.0000	0.0000	0.0480
Worker	4.0000e-005	3.0000e-005	2.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0342	0.0342	0.0000	0.0000	0.0343
Total	**5.0000e-005**	**2.6000e-004**	**3.0000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0822**	**0.0822**	**0.0000**	**0.0000**	**0.0823**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0156	0.0164	3.0000e-005		8.1000e-004	8.1000e-004		7.6000e-004	7.6000e-004	0.0000	2.3173	2.3173	5.6000e-004	0.0000	2.3311
Total	**1.7100e-003**	**0.0156**	**0.0164**	**3.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**2.3173**	**2.3173**	**5.6000e-004**	**0.0000**	**2.3311**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0480	0.0480	0.0000	0.0000	0.0480
Worker	4.0000e-005	3.0000e-005	2.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0342	0.0342	0.0000	0.0000	0.0343
Total	**5.0000e-005**	**2.6000e-004**	**3.0000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0822**	**0.0822**	**0.0000**	**0.0000**	**0.0823**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1001	0.1312	2.1000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	18.0248	18.0248	5.8300e-003	0.0000	18.1705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9300e-003**	**0.1001**	**0.1312**	**2.1000e-004**		**5.1100e-003**	**5.1100e-003**		**4.7000e-003**	**4.7000e-003**	**0.0000**	**18.0248**	**18.0248**	**5.8300e-003**	**0.0000**	**18.1705**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.9000e-004	6.3100e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9241	0.9241	5.0000e-005	0.0000	0.9254
Total	**1.1300e-003**	**6.9000e-004**	**6.3100e-003**	**1.0000e-005**	**1.0600e-003**	**1.0000e-005**	**1.0700e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9241**	**0.9241**	**5.0000e-005**	**0.0000**	**0.9254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1001	0.1312	2.1000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	18.0248	18.0248	5.8300e-003	0.0000	18.1705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9300e-003**	**0.1001**	**0.1312**	**2.1000e-004**		**5.1100e-003**	**5.1100e-003**		**4.7000e-003**	**4.7000e-003**	**0.0000**	**18.0248**	**18.0248**	**5.8300e-003**	**0.0000**	**18.1705**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.9000e-004	6.3100e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9241	0.9241	5.0000e-005	0.0000	0.9254
Total	**1.1300e-003**	**6.9000e-004**	**6.3100e-003**	**1.0000e-005**	**1.0600e-003**	**1.0000e-005**	**1.0700e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9241**	**0.9241**	**5.0000e-005**	**0.0000**	**0.9254**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.1467**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0617
Total	**8.0000e-005**	**5.0000e-005**	**4.2000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0000**	**0.0617**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.1467**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0617
Total	**8.0000e-005**	**5.0000e-005**	**4.2000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0000**	**0.0617**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2580	0.6456	1.9670	2.9900e-003	0.2309	4.7000e-003	0.2356	0.0620	4.4300e-003	0.0664	0.0000	271.3851	271.3851	0.0195	0.0000	271.8731
Unmitigated	0.2580	0.6456	1.9670	2.9900e-003	0.2309	4.7000e-003	0.2356	0.0620	4.4300e-003	0.0664	0.0000	271.3851	271.3851	0.0195	0.0000	271.8731

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Quality Restaurant	524.00	524.00	524.00	621,551	621,551
Total	524.00	524.00	524.00	621,551	621,551

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.516542	0.043319	0.214687	0.129147	0.038243	0.006090	0.018498	0.022882	0.001257	0.001053	0.005563	0.001134	0.001584

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	89.3462	89.3462	4.0400e-003	8.4000e-004	89.6963
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	89.3462	89.3462	4.0400e-003	8.4000e-004	89.6963
NaturalGas Mitigated	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	77.5109	77.5109	1.4900e-003	1.4200e-003	77.9715
NaturalGas Unmitigated	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	77.5109	77.5109	1.4900e-003	1.4200e-003	77.9715

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Quality Restaurant	1.4525e+006	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	77.5109	77.5109	1.4900e-003	1.4200e-003	77.9715
Total		**7.8300e-003**	**0.0712**	**0.0598**	**4.3000e-004**		**5.4100e-003**	**5.4100e-003**		**5.4100e-003**	**5.4100e-003**	**0.0000**	**77.5109**	**77.5109**	**1.4900e-003**	**1.4200e-003**	**77.9715**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Quality Restaurant	1.4525e+006	7.8300e-003	0.0712	0.0598	4.3000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	77.5109	77.5109	1.4900e-003	1.4200e-003	77.9715
Total		**7.8300e-003**	**0.0712**	**0.0598**	**4.3000e-004**		**5.4100e-003**	**5.4100e-003**		**5.4100e-003**	**5.4100e-003**	**0.0000**	**77.5109**	**77.5109**	**1.4900e-003**	**1.4200e-003**	**77.9715**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	307125	89.3462	4.0400e-003	8.4000e-004	89.6963
Total		**89.3462**	**4.0400e-003**	**8.4000e-004**	**89.6963**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	307125	89.3462	4.0400e-003	8.4000e-004	89.6963
Total		**89.3462**	**4.0400e-003**	**8.4000e-004**	**89.6963**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0633	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Unmitigated	0.0633	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Total	**0.0633**	**0.0000**	**1.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.4000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Total	**0.0633**	**0.0000**	**1.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.4228	0.1239	2.9800e-003	11.4079
Unmitigated	7.4228	0.1239	2.9800e-003	11.4079

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	3.79417 / 0.242181	7.4228	0.1239	2.9800e-003	11.4079
Total		**7.4228**	**0.1239**	**2.9800e-003**	**11.4079**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	3.79417 / 0.242181	7.4228	0.1239	2.9800e-003	11.4079
Total		**7.4228**	**0.1239**	**2.9800e-003**	**11.4079**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3161	0.1369	0.0000	5.7381
Unmitigated	2.3161	0.1369	0.0000	5.7381

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	11.41	2.3161	0.1369	0.0000	5.7381
Total		**2.3161**	**0.1369**	**0.0000**	**5.7381**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	11.41	2.3161	0.1369	0.0000	5.7381
Total		**2.3161**	**0.1369**	**0.0000**	**5.7381**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Hartman Complex

Lake County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Quality Restaurant	7.20	1000sqft	5.00	7,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	67
Climate Zone	1			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Sire Plan

Demolition - Parking Memo

Vehicle Trips - Trip Gen Memo

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.17	5.00
tblVehicleTrips	ST_TR	94.36	41.92
tblVehicleTrips	SU_TR	72.16	41.92
tblVehicleTrips	WD_TR	89.95	41.92

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2734	2.5242	2.2586	3.7600e-003	0.0807	0.1347	0.2154	0.0404	0.1263	0.1667	0.0000	325.0047	325.0047	0.0798	0.0000	326.9989
2022	0.0981	0.1293	0.1708	2.7000e-004	1.1700e-003	6.6700e-003	7.8300e-003	3.1000e-004	6.2100e-003	6.5200e-003	0.0000	23.6702	23.6702	6.5900e-003	0.0000	23.8350
Maximum	**0.2734**	**2.5242**	**2.2586**	**3.7600e-003**	**0.0807**	**0.1347**	**0.2154**	**0.0404**	**0.1263**	**0.1667**	**0.0000**	**325.0047**	**325.0047**	**0.0798**	**0.0000**	**326.9989**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2734	2.5242	2.2586	3.7600e-003	0.0807	0.1347	0.2154	0.0404	0.1263	0.1667	0.0000	325.0043	325.0043	0.0798	0.0000	326.9985
2022	0.0981	0.1293	0.1708	2.7000e-004	1.1700e-003	6.6700e-003	7.8300e-003	3.1000e-004	6.2100e-003	6.5200e-003	0.0000	23.6701	23.6701	6.5900e-003	0.0000	23.8349
Maximum	**0.2734**	**2.5242**	**2.2586**	**3.7600e-003**	**0.0807**	**0.1347**	**0.2154**	**0.0404**	**0.1263**	**0.1667**	**0.0000**	**325.0043**	**325.0043**	**0.0798**	**0.0000**	**326.9985**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.8819	0.8819
2	4-1-2021	6-30-2021	0.6338	0.6338
3	7-1-2021	9-30-2021	0.6407	0.6407
4	10-1-2021	12-31-2021	0.6409	0.6409
5	1-1-2022	3-31-2022	0.2330	0.2330
		Highest	0.8819	0.8819

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0365	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Energy	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	96.1097	96.1097	3.1800e-003	1.3000e-003	96.5767
Mobile	0.1486	0.3719	1.1330	1.7200e-003	0.1330	2.7100e-003	0.1357	0.0357	2.5500e-003	0.0383	0.0000	156.3178	156.3178	0.0113	0.0000	156.5989
Waste						0.0000	0.0000		0.0000	0.0000	1.3337	0.0000	1.3337	0.0788	0.0000	3.3041
Water						0.0000	0.0000		0.0000	0.0000	0.6933	3.5822	4.2755	0.0714	1.7100e-003	6.5710
Total	**0.1896**	**0.4129**	**1.1675**	**1.9700e-003**	**0.1330**	**5.8300e-003**	**0.1388**	**0.0357**	**5.6700e-003**	**0.0414**	**2.0270**	**256.0098**	**258.0368**	**0.1646**	**3.0100e-003**	**263.0508**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0365	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Energy	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	96.1097	96.1097	3.1800e-003	1.3000e-003	96.5767
Mobile	0.1486	0.3719	1.1330	1.7200e-003	0.1330	2.7100e-003	0.1357	0.0357	2.5500e-003	0.0383	0.0000	156.3178	156.3178	0.0113	0.0000	156.5989
Waste						0.0000	0.0000		0.0000	0.0000	1.3337	0.0000	1.3337	0.0788	0.0000	3.3041
Water						0.0000	0.0000		0.0000	0.0000	0.6933	3.5822	4.2755	0.0714	1.7100e-003	6.5710
Total	**0.1896**	**0.4129**	**1.1675**	**1.9700e-003**	**0.1330**	**5.8300e-003**	**0.1388**	**0.0357**	**5.6700e-003**	**0.0414**	**2.0270**	**256.0098**	**258.0368**	**0.1646**	**3.0100e-003**	**263.0508**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	2/4/2021	5	5	
3	Grading	Grading	2/5/2021	2/16/2021	5	8	
4	Building Construction	Building Construction	2/17/2021	1/4/2022	5	230	
5	Paving	Paving	1/5/2022	1/28/2022	5	18	
6	Architectural Coating	Architectural Coating	1/29/2022	2/23/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,800; Non-Residential Outdoor: 3,600; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Hartman Complex - Lake County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	33.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**3.5900e-003**	**0.0155**	**0.0191**	**5.4000e-004**	**0.0144**	**0.0150**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.1200e-003	1.0900e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1794	1.1794	3.0000e-005	0.0000	1.1802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.6000e-004	7.9000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0615	1.0615	7.0000e-005	0.0000	1.0631
Total	**1.5100e-003**	**5.9800e-003**	**8.9900e-003**	**2.0000e-005**	**1.4600e-003**	**5.0000e-005**	**1.5100e-003**	**3.9000e-004**	**5.0000e-005**	**4.4000e-004**	**0.0000**	**2.2409**	**2.2409**	**1.0000e-004**	**0.0000**	**2.2433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5900e-003	0.0000	3.5900e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**3.5900e-003**	**0.0155**	**0.0191**	**5.4000e-004**	**0.0144**	**0.0150**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.1200e-003	1.0900e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1794	1.1794	3.0000e-005	0.0000	1.1802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.6000e-004	7.9000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0615	1.0615	7.0000e-005	0.0000	1.0631
Total	**1.5100e-003**	**5.9800e-003**	**8.9900e-003**	**2.0000e-005**	**1.4600e-003**	**5.0000e-005**	**1.5100e-003**	**3.9000e-004**	**5.0000e-005**	**4.4000e-004**	**0.0000**	**2.2409**	**2.2409**	**1.0000e-004**	**0.0000**	**2.2433**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.3700e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3184	0.3184	2.0000e-005	0.0000	0.3189
Total	**4.0000e-004**	**2.6000e-004**	**2.3700e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3184**	**0.3184**	**2.0000e-005**	**0.0000**	**0.3189**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.3700e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3184	0.3184	2.0000e-005	0.0000	0.3189
Total	**4.0000e-004**	**2.6000e-004**	**2.3700e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3184**	**0.3184**	**2.0000e-005**	**0.0000**	**0.3189**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.5000e-004	3.1600e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4246	0.4246	3.0000e-005	0.0000	0.4252
Total	**5.3000e-004**	**3.5000e-004**	**3.1600e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4246**	**0.4246**	**3.0000e-005**	**0.0000**	**0.4252**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.5000e-004	3.1600e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4246	0.4246	3.0000e-005	0.0000	0.4252
Total	**5.3000e-004**	**3.5000e-004**	**3.1600e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4246**	**0.4246**	**3.0000e-005**	**0.0000**	**0.4252**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0665	264.0665	0.0637	0.0000	265.6592
Total	**0.2167**	**1.9873**	**1.8896**	**3.0700e-003**		**0.1093**	**0.1093**		**0.1028**	**0.1028**	**0.0000**	**264.0665**	**264.0665**	**0.0637**	**0.0000**	**265.6592**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	0.0138	4.5000e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.1000e-004	9.0000e-005	3.1000e-004	0.0000	2.7530	2.7530	1.2000e-004	0.0000	2.7561
Worker	3.0400e-003	1.9700e-003	0.0180	3.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.4201	2.4201	1.5000e-004	0.0000	2.4239
Total	**3.6800e-003**	**0.0157**	**0.0225**	**6.0000e-005**	**3.4400e-003**	**1.2000e-004**	**3.5600e-003**	**9.3000e-004**	**1.1000e-004**	**1.0500e-003**	**0.0000**	**5.1731**	**5.1731**	**2.7000e-004**	**0.0000**	**5.1800**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0662	264.0662	0.0637	0.0000	265.6589
Total	**0.2167**	**1.9873**	**1.8896**	**3.0700e-003**		**0.1093**	**0.1093**		**0.1028**	**0.1028**	**0.0000**	**264.0662**	**264.0662**	**0.0637**	**0.0000**	**265.6589**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	0.0138	4.5000e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.1000e-004	9.0000e-005	3.1000e-004	0.0000	2.7530	2.7530	1.2000e-004	0.0000	2.7561
Worker	3.0400e-003	1.9700e-003	0.0180	3.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.4201	2.4201	1.5000e-004	0.0000	2.4239
Total	**3.6800e-003**	**0.0157**	**0.0225**	**6.0000e-005**	**3.4400e-003**	**1.2000e-004**	**3.5600e-003**	**9.3000e-004**	**1.1000e-004**	**1.0500e-003**	**0.0000**	**5.1731**	**5.1731**	**2.7000e-004**	**0.0000**	**5.1800**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0156	0.0164	3.0000e-005		8.1000e-004	8.1000e-004		7.6000e-004	7.6000e-004	0.0000	2.3173	2.3173	5.6000e-004	0.0000	2.3311
Total	**1.7100e-003**	**0.0156**	**0.0164**	**3.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**2.3173**	**2.3173**	**5.6000e-004**	**0.0000**	**2.3311**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.1000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Worker	3.0000e-005	2.0000e-005	1.4000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0205	0.0205	0.0000	0.0000	0.0206
Total	**4.0000e-005**	**1.3000e-004**	**1.8000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0445**	**0.0445**	**0.0000**	**0.0000**	**0.0446**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0156	0.0164	3.0000e-005		8.1000e-004	8.1000e-004		7.6000e-004	7.6000e-004	0.0000	2.3173	2.3173	5.6000e-004	0.0000	2.3311
Total	**1.7100e-003**	**0.0156**	**0.0164**	**3.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**2.3173**	**2.3173**	**5.6000e-004**	**0.0000**	**2.3311**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.1000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Worker	3.0000e-005	2.0000e-005	1.4000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0205	0.0205	0.0000	0.0000	0.0206
Total	**4.0000e-005**	**1.3000e-004**	**1.8000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0445**	**0.0445**	**0.0000**	**0.0000**	**0.0446**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1001	0.1312	2.1000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	18.0248	18.0248	5.8300e-003	0.0000	18.1705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9300e-003**	**0.1001**	**0.1312**	**2.1000e-004**		**5.1100e-003**	**5.1100e-003**		**4.7000e-003**	**4.7000e-003**	**0.0000**	**18.0248**	**18.0248**	**5.8300e-003**	**0.0000**	**18.1705**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.9000e-004	6.3100e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9241	0.9241	5.0000e-005	0.0000	0.9254
Total	**1.1300e-003**	**6.9000e-004**	**6.3100e-003**	**1.0000e-005**	**1.0600e-003**	**1.0000e-005**	**1.0700e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9241**	**0.9241**	**5.0000e-005**	**0.0000**	**0.9254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1001	0.1312	2.1000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	18.0248	18.0248	5.8300e-003	0.0000	18.1705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9300e-003**	**0.1001**	**0.1312**	**2.1000e-004**		**5.1100e-003**	**5.1100e-003**		**4.7000e-003**	**4.7000e-003**	**0.0000**	**18.0248**	**18.0248**	**5.8300e-003**	**0.0000**	**18.1705**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.9000e-004	6.3100e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9241	0.9241	5.0000e-005	0.0000	0.9254
Total	**1.1300e-003**	**6.9000e-004**	**6.3100e-003**	**1.0000e-005**	**1.0600e-003**	**1.0000e-005**	**1.0700e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9241**	**0.9241**	**5.0000e-005**	**0.0000**	**0.9254**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.0853**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0617
Total	**8.0000e-005**	**5.0000e-005**	**4.2000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0000**	**0.0617**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.0853**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0617
Total	**8.0000e-005**	**5.0000e-005**	**4.2000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0000**	**0.0617**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1486	0.3719	1.1330	1.7200e-003	0.1330	2.7100e-003	0.1357	0.0357	2.5500e-003	0.0383	0.0000	156.3178	156.3178	0.0113	0.0000	156.5989
Unmitigated	0.1486	0.3719	1.1330	1.7200e-003	0.1330	2.7100e-003	0.1357	0.0357	2.5500e-003	0.0383	0.0000	156.3178	156.3178	0.0113	0.0000	156.5989

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Quality Restaurant	301.82	301.82	301.82	358,014	358,014
Total	301.82	301.82	301.82	358,014	358,014

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.516542	0.043319	0.214687	0.129147	0.038243	0.006090	0.018498	0.022882	0.001257	0.001053	0.005563	0.001134	0.001584

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	51.4634	51.4634	2.3300e-003	4.8000e-004	51.6651
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	51.4634	51.4634	2.3300e-003	4.8000e-004	51.6651
NaturalGas Mitigated	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.6463	44.6463	8.6000e-004	8.2000e-004	44.9116
NaturalGas Unmitigated	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.6463	44.6463	8.6000e-004	8.2000e-004	44.9116

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Quality Restaurant	836640	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.6463	44.6463	8.6000e-004	8.2000e-004	44.9116
Total		**4.5100e-003**	**0.0410**	**0.0345**	**2.5000e-004**		**3.1200e-003**	**3.1200e-003**		**3.1200e-003**	**3.1200e-003**	**0.0000**	**44.6463**	**44.6463**	**8.6000e-004**	**8.2000e-004**	**44.9116**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Quality Restaurant	836640	4.5100e-003	0.0410	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.6463	44.6463	8.6000e-004	8.2000e-004	44.9116
Total		**4.5100e-003**	**0.0410**	**0.0345**	**2.5000e-004**		**3.1200e-003**	**3.1200e-003**		**3.1200e-003**	**3.1200e-003**	**0.0000**	**44.6463**	**44.6463**	**8.6000e-004**	**8.2000e-004**	**44.9116**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	176904	51.4634	2.3300e-003	4.8000e-004	51.6651
Total		**51.4634**	**2.3300e-003**	**4.8000e-004**	**51.6651**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	176904	51.4634	2.3300e-003	4.8000e-004	51.6651
Total		**51.4634**	**2.3300e-003**	**4.8000e-004**	**51.6651**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0365	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Unmitigated	0.0365	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Total	**0.0365**	**0.0000**	**7.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**1.4000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Total	**0.0365**	**0.0000**	**7.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**1.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2755	0.0714	1.7100e-003	6.5710
Unmitigated	4.2755	0.0714	1.7100e-003	6.5710

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	2.18544 / 0.139496	4.2755	0.0714	1.7100e-003	6.5710
Total		**4.2755**	**0.0714**	**1.7100e-003**	**6.5710**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	2.18544 / 0.139496	4.2755	0.0714	1.7100e-003	6.5710
Total		**4.2755**	**0.0714**	**1.7100e-003**	**6.5710**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3337	0.0788	0.0000	3.3041
Unmitigated	1.3337	0.0788	0.0000	3.3041

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	6.57	1.3337	0.0788	0.0000	3.3041
Total		**1.3337**	**0.0788**	**0.0000**	**3.3041**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	6.57	1.3337	0.0788	0.0000	3.3041
Total		**1.3337**	**0.0788**	**0.0000**	**3.3041**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

ATTACHMENT 2

BIOLOGICAL LETTER REPORT

BIOLOGICAL LETTER REPORT

To:	Randy Murphy, General Manager Hidden Valley Lake Association
From:	Kelli Raymond, Biologist Analytical Environmental Services
Project:	Hartmann Complex at Hidden Valley Lake Project
Date:	11/19/2020

1.0 INTRODUCTION

This memorandum has been prepared for the Hartmann Complex at Hidden Valley Lake Project (Proposed Project) located at 19210 Hartmann Road in Hidden Valley Lake, California on an approximately 36.6-acre property. Development of the Proposed Project would occur on approximately 5 acres (project site) (**Figure 1** and **2**). The Proposed Project consists of the following:

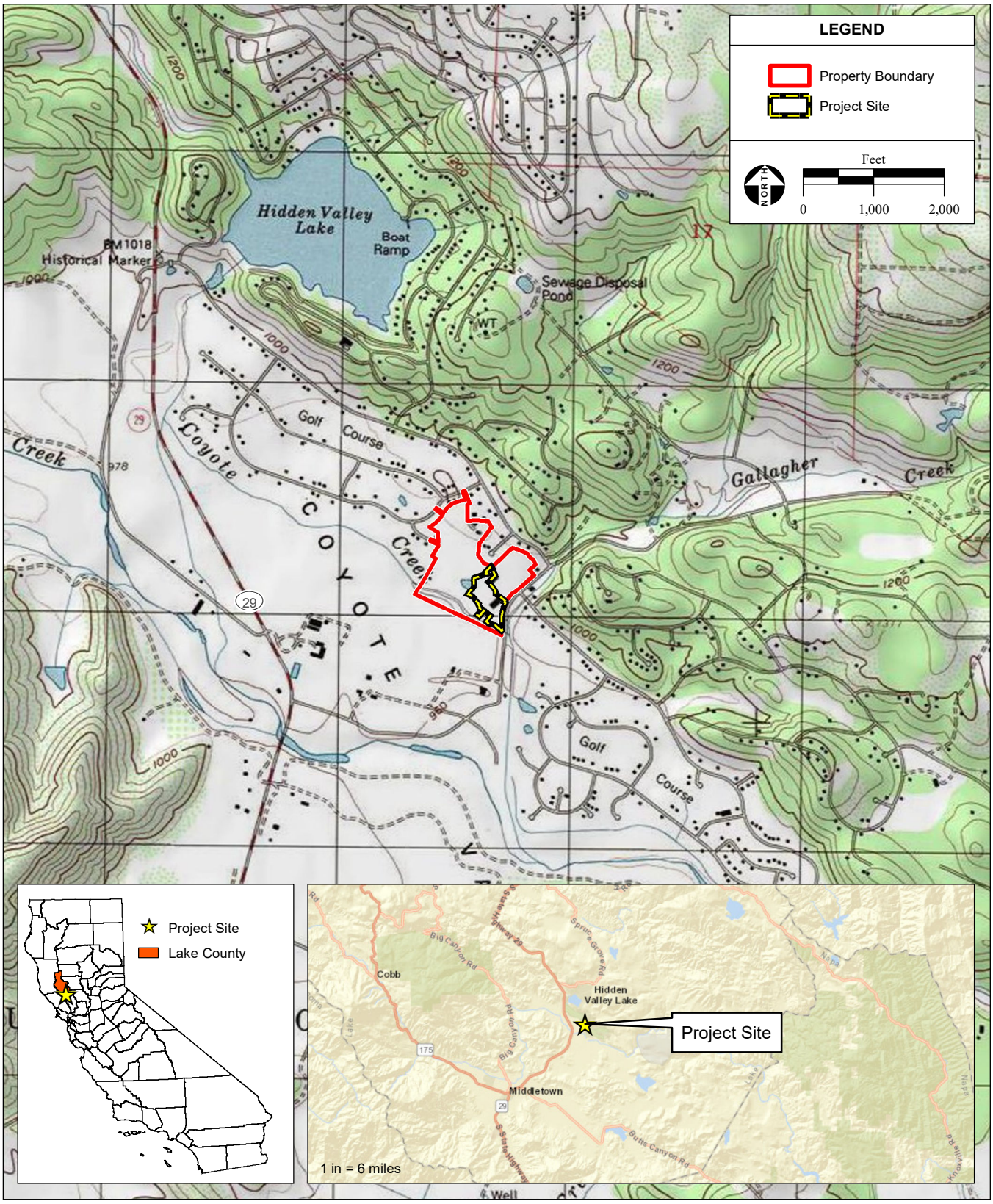
- Demolition of the existing Hidden Valley Lake Association facility, including the Greenview Restaurant & Café, Pro Shop, and Hidden Valley Lake Association administration offices.
- Construction of a new approximately 12,483 sf facility, referred to as the Hartmann Complex, containing a restaurant, expanded banquet facilities, golf Pro Shop, and Hidden Valley Lake Association administration offices.
- Modification of the golf amenities surrounding the Hartmann Complex such as expanded driving range tees with netting, relocation of practice greens, and repositioning of the 1st hole golf tees.
- Installation of additional parking and a dedicated drop-off area.

Development would occur within previously disturbed, paved, and regularly maintained areas of the golf course, and does not include expansion of the existing golf course/ Hidden Valley Lake Association facility footprint. The existing Hidden Valley Lake Association facility would be relocated from a County zoning designation of Community Commercial (C2) to Open Space (O). This change in zoning would require a Major User Permit. Utility providers such as the Hidden Valley Lake Community Services District, South Lake County Fire Department, Pacific Gas & Electricity, and South Lake Refuse and Recycling are expected to remain the same. No improvements would be made within 20 feet of the Coyote Creek bank (**Figure 2**).

2.0 METHODOLOGY

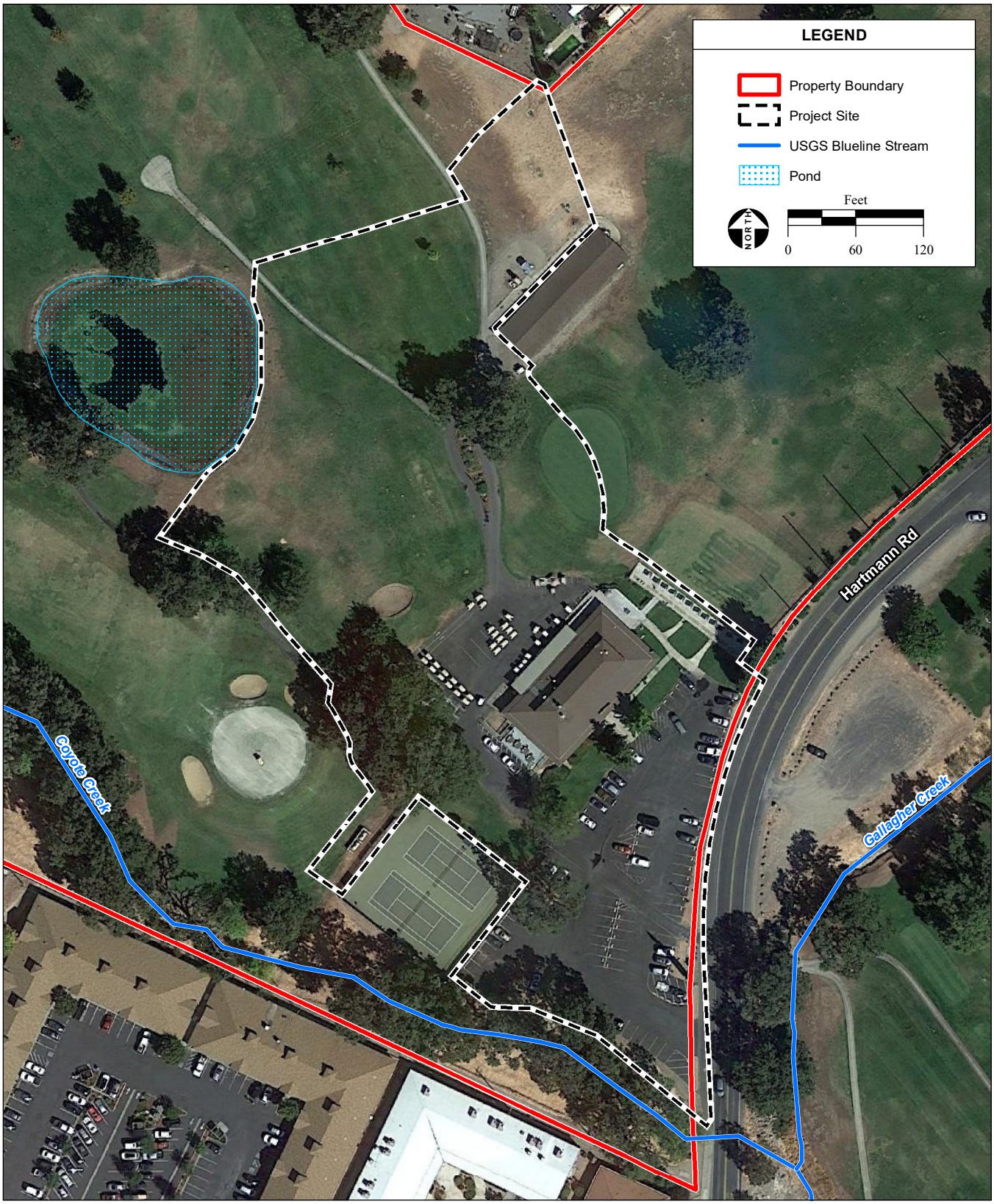
The following information was obtained and reviewed in support of this analysis:

- Aerial photographs of the project site and surrounding area;
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation list, queried November 6, 2020 (**Attachment A**);
- California Natural Diversity Database list, queried November 6, 2020 (**Attachment A**);
- California Native Plant Society list, queried November 6, 2020 (**Attachment A**);



SOURCE: "Middletown, CA" USGS 7.5 Minute Topographic Quadrangle, T11N R6W, Unsectioned Areas of Guenoc, Mt. Diablo Baseline & Meridian; ESRI World StreetMap. 2020; AES, 11/17/2020

Figure 1
Site and Vicinity



SOURCE: Williams Paddon, 7/1/2020; DigitalGlobe Aerial Photograph, 9/18/2019; AES, 11/17/2020

Figure 2
Aerial Photograph

- Natural Resources Conservation Service (NRCS) custom soils report, queried November 6, 2020 (**Attachment B**); and
- USFWS National Wetlands Inventory map of wetland features, queried November 6, 2020 (**Attachment C**).

3.0 ENVIRONMENTAL SETTING

3.1 Soil Types

A custom soils report for the project site can be found in **Attachment B**. The project site is comprised of Lupoyoma silt loam (approximately 41 percent) and stratified substratum silt loam (approximately 59 percent). Lupoyoma silt loam is relatively well drained and has a low runoff potential. stratified substratum silt loam is a well-drained soil with a low runoff potential.

3.2 Habitat Types

The project site is developed. This habitat type is not considered sensitive and is generally of low value to plants and wildlife. Vegetation on the project site consists of ornamental and landscape plantings, including native oak trees, and golf course greens that are subject to regular maintenance and disturbance. No aquatic habitat, including wetlands or waters of the U.S., occurs on the project site. However, a small manmade pond surrounded by the golf course green occurs on the property northwest of the project site. This pond functions as a manmade water hazard for the existing golf course and only occasionally holds water after intense periods of rainfall. Due to a failed pond liner, water accumulated in the pond percolates into the ground rather than overflowing. This feature is isolated and is surrounded by the golf course manicured greens. Coyote Creek runs adjacent to the property to the southwest of the project site.

3.3 Special-Status Species

Data review and special-status species searches yielded 22 special-status plant species and 8 special-status wildlife species with the potential to occur in the region of the project site (**Attachment A**). Habitat requirements of regionally occurring special-status species were compared with the type, quality, and quantity of habitat present on the project site. Species with no potential to occur on the project site were ruled out based on site characteristics such as habitat type, level of disturbance, soils, elevation, or similar environmental indicators.

The project site does not contain suitable habitat to support regionally occurring special-status plants. Townsend's big-eared bat (*Corynorhinus townsendii*) may roost within trees on the project site if on-site trees contain roost characteristics such as basal hollows. Existing structures on the project site lack cave-like structures that would be suitable for Townsend's big-eared bat roosts. Due to the potential for special-status wildlife to incidentally occur on the project site from adjacent suitable habitat, an analysis of adjacent habitat was conducted. Adjacent habitat is largely developed, with the exception of a small pond and Coyote Creek. The adjacent pond is within the golf course green, lacks wetland vegetation, and is subject to regular disturbance. Additionally, this feature is dry most of the year, only holds water following periods of high rainfall, and does not offer suitable habitat to support special-status species. However, the nearby Coyote Creek has the potential to support Foothill yellow-legged frog (*Rana boylii*).

3.4 Wildlife Movement

The project site is within the Hidden Valley Lake subdivision, and is surrounded by commercial,

residential, and recreational development. Major and minor roadways occur in the vicinity of the project site. The adjacent Coyote Creek is subject to a high level of disturbance from existing development. This creek upstream and downstream of the project site consists of minimal development setbacks, manmade channelization, and/or numerous roadway crossings. Additionally, this creek is above the Lake Berryessa dam and does not offer suitable habitat for anadromous fishes.

3.5 Critical Habitat

No USFWS-designated or proposed Critical Habitat occurs on or adjacent to the project site (**Attachment A**). The nearest Critical Habitat is approximately 2.6 miles north of the project site for Slender Orcutt grass (*Orcuttia tenuis*)(USFWS, 2020).

4.0 RESULTS AND RECOMENDATIONS

4.1 Sensitive Habitat

There are no sensitive habitat types present on the project site. No designated Critical Habitat is present on the project site. The Proposed Project would not result in development within areas not already developed. A 20 foot setback from Coyote Creek, consistent with County setback requirements, has been included as a component of the Proposed Project's design. The manmade pond adjacent to the project site is an isolated feature that does not provide habitat for aquatic species. However, the proposed Hartmann Complex building would be in excess of 20 feet from the golf course pond. While portions of the patio would occur within 20 feet of the pond's high water mark, the topography is such that water collected in the pond would flow away from the patio area, although overtopping of water from the pond has not historically occurred.

Given the proximity of aquatic habitat to the project site, there is the potential for impaired water runoff to enter Coyote Creek and the pond. **Mitigation Measure 1** is recommended to avoid potential impacts to aquatic habitats. With implementation of **Mitigation Measure 1**, impacts to sensitive aquatic habitats would be less than significant.

> **Mitigation Measure 1:** A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared prior to construction. The SWPPP shall include a detailed, site-specific listing of potential sources of stormwater pollution; pollution prevention measures; a description of the type and location of erosion and sediment control Best Management Practices to be implemented; and a monitoring and maintenance schedule to ensure efficacy and water quality protection measures. A copy of the SWPPP shall be kept on the project site throughout construction.

4.2 Oak Trees

The Proposed Project is designed to avoid impacts to existing trees on the project site. Native oak trees are identified as an important resource in the County's General Plan (Lake County, 2008). Oak trees on the Project Site occur west of the existing Cart Barn, along the western edge of the existing parking lot, and are dispersed to the west and south of the existing Hidden Valley Lake Association building. All of the oak trees within the project site will be avoided through design measures and will not be removed as part of the Proposed Project. If unforeseen circumstances dictate that oak trees need to be removed, this action would be addressed through consultation with the County. Impacts to oak trees would be less than significant

4.3 Nesting Migratory Birds

Migratory birds and their nests are protected from "take" by the Migratory Bird Treaty Act (16 U.SC. 703-711), which makes it unlawful to "…pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess or any part, nest, or egg of any such bird…" (50 CFR 10). The project site and areas surrounding the project site are largely developed and are subject to high levels of regular disturbance from existing on-site operations, nearby residences, commercial development, and roadways. However, there is potential for migratory birds to nest on and within 500 feet of the project site. Construction-related disturbance that commences during the nesting season has the potential to impact nesting migratory birds, if present. **Mitigation Measure 2** is recommended to avoid potential impacts to nesting migratory birds. With implementation of **Mitigation Measure 2**, impacts to nesting migratory birds would be less than significant.

> **Mitigation Measure 2:** Should work commence during the nesting season (February 15 to September 15), a preconstruction nesting bird survey shall be conducted by a qualified biologist no more than five days prior to the start of ground disturbing activities. Areas within 500 feet of construction shall be surveyed as possible for active nests. Should an active nest be identified, a "disturbance-free" buffer shall be established by the qualified biologist based on the needs of the species identified. The buffer shall remain in place until the biologist determines that the nest is no longer active. Should construction cease for a period of five days or more, an additional pre-construction nesting bird survey shall be conducted.

4.4 Special-Status Species

As discussed in **Section 3.3**, mature trees on the project site may provide suitable roosting habitat for Townsend's big-eared bat. The Proposed Project has the potential to negatively impact Townsend's big-eared bat should trees with basal hollows occur on the project site be scheduled for removal. **Mitigation Measure 3** is recommended to avoid potential impacts to Townsend's big-eared bat by ensuring occupied roosts are not removed. With implementation of **Mitigation Measure 3**, impacts to special-status bats would be less than significant.

> **Mitigation Measure 3:** Prior to removal of trees with a dbh exceeding six inches, a qualified biologist shall conduct a survey of trees to determine whether trees with potential bat roosts are scheduled for removal. If trees scheduled for removal do not have roost habitat, then no further mitigation is necessary. If trees scheduled for removal are observed with roost habitat, the trees shall be removed over a two-day process as outlined below:
>
> - Removal shall occur during seasonal periods of bat activity as possible. Removal shall occur as possible outside of maternity season. The maternity roosting season for bats is approximately February 1 through September 1 (but varies due to rainfall and temperature). The best time for removal of structures that may support maternity roosting is between February 1 and April 15.
> - On day 1, branches and small limbs not containing potential bat roost habitat (cavities, crevices, exfoliating bark, etc.) shall be removed using chainsaws only.
> - On day 2, the remainder of the tree shall be removed.

The adjacent Coyote Creek provides suitable habitat for foothill yellow-legged frog (FYLF). While the project site does not contain suitable habitat for FYLF, it is possible that FYLF may incidentally occur at the transition between upland habitat and the project site. To ensure that the Proposed Project does

not impact individual FYLF that may incidentally occur on the project site, **Mitigation Measure 4** is recommended. With implementation of **Mitigation Measure 4**, impacts to FYLF would be less than significant.

> **Mitigation Measure 4:** A pre-construction survey for FYLF shall be conducted by a qualified biologist within five days of initiating ground disturbing activities. Surveys shall cover between left and right bankfull at least 500 feet upstream and 500 feet downstream of the work area as accessible. Surveys shall extend up to 30 feet above bankfull within 100 feet of work areas when suitable, accessible habitat is present.
>
> Work within 100 feet of Coyote Creek shall occur during the dry months (July 1 through October 31) as possible. Timing shall also occur outside of the FYLF breeding season (March 1 to June 30) to the extent possible. If work must occur between October 31 and June 30, a monitor shall be present, or FYLF shall be excluded from active work areas by an exclusionary fence that is at least 24 inches tall and has a no-climb barrier installed along the top. Prior to commencement of work, a qualified biologist will inspect the fence and work area to ensure proper installation and clearance of FYLF. These measures shall be implemented in the following manner:
>
> - If a work area is within 100 feet of Coyote Creek, a monitor will be present during work and will ensure that no FYLF are impacted. Observed FYLF will be avoided by construction activities by at least 50 feet unless the monitor is positioned between the FYLF and the construction activity.
> - Work areas can alternatively be separated from Coyote Creek by exclusionary fencing as described above and no monitoring would be required. If exclusionary fencing is utilized, fencing must extend the length of the active work area plus 100 feet downstream and upstream, unless impeded by Hartmann Road.
> - If a FYLF is found in a work area and cannot be avoided, the qualified biologist will coordinate with CDFW to develop an acceptable relocation strategy.

The perimeter control required under the SWPPP may be utilized for the purpose of FYLF exclusion provided that the design satisfy the requirements of the SWPPP as well as the exclusionary design specified above.

4.5 Wildlife Movement

The project site is within a developed area that is surrounded by barriers to wildlife movement. The project site lacks wildlife corridors and does not contain features that would facilitate wildlife movement. The Proposed Project would not modify the adjacent Coyote Creek. Coyote Creek is subject to high levels of development and disturbance that have removed the riparian vegetation and have provided a complete barrier to anadromy downstream of the project site. Therefore, there would be no impacts to migrating wildlife or wildlife corridors. No mitigation is necessary.

5.0 CONCLUSION

The project site is developed within an area of surrounding development. Surrounding roadways, neighboring commercial and recreational uses, and nearby high-density residential areas further increase the level of disturbance in the vicinity of the project site. The project site lacks sensitive habitat. A SWPPP would be developed to prevent impacts to aquatic habitat. Removal of oak trees over three inches dbh is not expected to occur, however, should removal of oak trees over three inches dbh

occur, consultation with the County would be conducted to determine appropriate measures. With implementation of mitigation, the Proposed Project would avoid impacts to FYLF and Townsend's big-eared bat. Additionally, the Proposed Project would not impact wildlife movement.

6.0 REFERENCES

Lake County, 2008. Lake County General Plan. Available online at: http://www.lakecountyca.gov/Government/Directory/Community_Development/Planning/2008FinGP.htm. Accessed November 2020.

U.S. Fish and Wildlife Service (USFWS), 2020. Critical Habitat for Threatened and Endangered Species. Available online at: https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap-=9d8de5e265ad4fe09893cf75b8dbfb77. Accessed November 2020.

ATTACHMENT A

PRELIMINARY RESEARCH DATA

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Carlsbad Fish And Wildlife Office
2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385
Phone: (760) 431-9440 Fax: (760) 431-5901
http://www.fws.gov/carlsbad/

In Reply Refer To:
Consultation Code: 08ECAR00-2020-SLI-1631
Event Code: 08ECAR00-2020-E-03795
Project Name: Long Beach Fuel

September 29, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office
2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385
(760) 431-9440

Project Summary

Consultation Code: 08ECAR00-2020-SLI-1631

Event Code: 08ECAR00-2020-E-03795

Project Name: Long Beach Fuel

Project Type: TRANSPORTATION

Project Description: Fuel Station Conversion

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/33.790154369824734N118.21417415320207W



Counties: Los Angeles, CA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Pacific Pocket Mouse *Perognathus longimembris pacificus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8080	Endangered

Birds

NAME	STATUS
California Least Tern *Sterna antillarum browni* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8104	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Long Beach (3311872))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Astragalus hornii var. hornii Horn's milk-vetch	PDFAB0F421	None	None	GUT1	S1	1B.1
Atriplex coulteri Coulter's saltbush	PDCHE040E0	None	None	G3	S1S2	1B.2
Atriplex parishii Parish's brittlescale	PDCHE041D0	None	None	G1G2	S1	1B.1
Bombus crotchii Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
Centromadia parryi ssp. australis southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
Chloropyron maritimum ssp. maritimum salt marsh bird's-beak	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
Cicindela gabbii western tidal-flat tiger beetle	IICOL02080	None	None	G2G4	S1	
Cicindela hirticollis gravida sandy beach tiger beetle	IICOL02101	None	None	G5T2	S2	
Cicindela latesignata latesignata western beach tiger beetle	IICOL02113	None	None	G2G4T1T2	S1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Danaus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
Glyptostoma gabrielense San Gabriel chestnut	IMGASB1010	None	None	G2	S2	
Isocoma menziesii var. decumbens decumbent goldenbush	PDAST57091	None	None	G3G5T2T3	S2	1B.2
Lasionycteris noctivagans silver-haired bat	AMACC02010	None	None	G5	S3S4	
Lasthenia glabrata ssp. coulteri Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
Navarretia prostrata prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.2
Nemacaulis denudata var. denudata coast woolly-heads	PDPGN0G011	None	None	G3G4T2	S2	1B.2
Nyctinomops macrotis big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
Orcuttia californica California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
Pelecanus occidentalis californicus California brown pelican	ABNFC01021	Delisted	Delisted	G4T3T4	S3	FP

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Pentachaeta lyonii Lyon's pentachaeta	PDAST6X060	Endangered	Endangered	G1	S1	1B.1
Perognathus longimembris pacificus Pacific pocket mouse	AMAFD01042	Endangered	None	G5T1	S1	SSC
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S2	
Sternula antillarum browni California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
Suaeda esteroa estuary seablite	PDCHE0P0D0	None	None	G3	S2	1B.2
Symphyotrichum defoliatum San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2

Record Count: 27

*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

Plant List

11 matches found. *Click on scientific name for details*

Search Criteria

Found in Quad 3311872

Modify Search Criteria | Export to Excel | Modify Columns | Modify Sort | Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Atriplex coulteri	Coulter's saltbush	Chenopodiaceae	perennial herb	Mar-Oct	1B.2	S1S2	G3
Atriplex parishii	Parish's brittlescale	Chenopodiaceae	annual herb	Jun-Oct	1B.1	S1	G1G2
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct(Nov)	1B.2	S1	G4?T1
Isocoma menziesii var. decumbens	decumbent goldenbush	Asteraceae	perennial shrub	Apr-Nov	1B.2	S2	G3G5T2T3
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	1B.1	S2	G4T2
Navarretia prostrata	prostrate vernal pool navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G2
Nemacaulis denudata var. denudata	coast woolly-heads	Polygonaceae	annual herb	Apr-Sep	1B.2	S2	G3G4T2
Pentachaeta lyonii	Lyon's pentachaeta	Asteraceae	annual herb	(Feb)Mar-Aug	1B.1	S1	G1
Suaeda esteroa	estuary seablite	Chenopodiaceae	perennial herb	(May)Jul-Oct(Jan)	1B.2	S2	G3
Symphyotrichum defoliatum	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov(Dec)	1B.2	S2	G2

Suggested Citation

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ATTACHMENT B

NRCS CUSTOM SOILS REPORT

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lake County, California



November 6, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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Contents

Preface.....2
How Soil Surveys Are Made.....5
Soil Map.....8
Soil Map (Hartmann Complex).....9
Legend.....10
Map Unit Legend (Hartmann Complex).....11
Map Unit Descriptions (Hartmann Complex).....11
Lake County, California.....13
158—Lupoyoma silt loam, protected.....13
233—Still loam, stratified substratum.....14
References.....16

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



Map Scale: 1:1,440 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lake County, California
Survey Area Data: Version 17, Jun 1, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 2, 2019—Jul 5, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (Hartmann Complex)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
158	Lupoyoma silt loam, protected	2.1	40.9%
233	Still loam, stratified substratum	3.1	59.1%
Totals for Area of Interest		**5.2**	**100.0%**

Map Unit Descriptions (Hartmann Complex)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lake County, California

158—Lupoyoma silt loam, protected

Map Unit Setting

National map unit symbol: hf6k
Elevation: 800 to 1,450 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 57 degrees F
Frost-free period: 150 to 205 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Lupoyoma and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lupoyoma

Setting

Landform: Flood plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 31 inches: silt loam
H2 - 31 to 84 inches: stratified very fine sandy loam to silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Cole, variant

Percent of map unit: 3 percent
Hydric soil rating: No

Xerofluvents
Percent of map unit: 3 percent
Landform: Fans
Hydric soil rating: Yes

Maywood, variant
Percent of map unit: 3 percent
Hydric soil rating: No

Kelsey
Percent of map unit: 3 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 3 percent
Hydric soil rating: No

233—Still loam, stratified substratum

Map Unit Setting
National map unit symbol: hf8z
Elevation: 600 to 2,000 feet
Mean annual precipitation: 25 inches
Mean annual air temperature: 61 degrees F
Frost-free period: 150 to 205 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition
Still and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Still

Setting
Landform: Alluvial flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sandstone and shale

Typical profile
H1 - 0 to 6 inches: loam
H2 - 6 to 52 inches: stratified loam to clay loam
H3 - 52 to 70 inches: stratified extremely gravelly loamy coarse sand to very gravelly sandy loam

Properties and qualities
Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches

Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Kelsey

Percent of map unit: 2 percent
Hydric soil rating: No

Lupoyoma

Percent of map unit: 2 percent
Hydric soil rating: No

Cole

Percent of map unit: 2 percent
Hydric soil rating: No

Cole, variant

Percent of map unit: 2 percent
Hydric soil rating: No

Talmage

Percent of map unit: 2 percent
Hydric soil rating: No

Xerofluvents

Percent of map unit: 1 percent
Hydric soil rating: No

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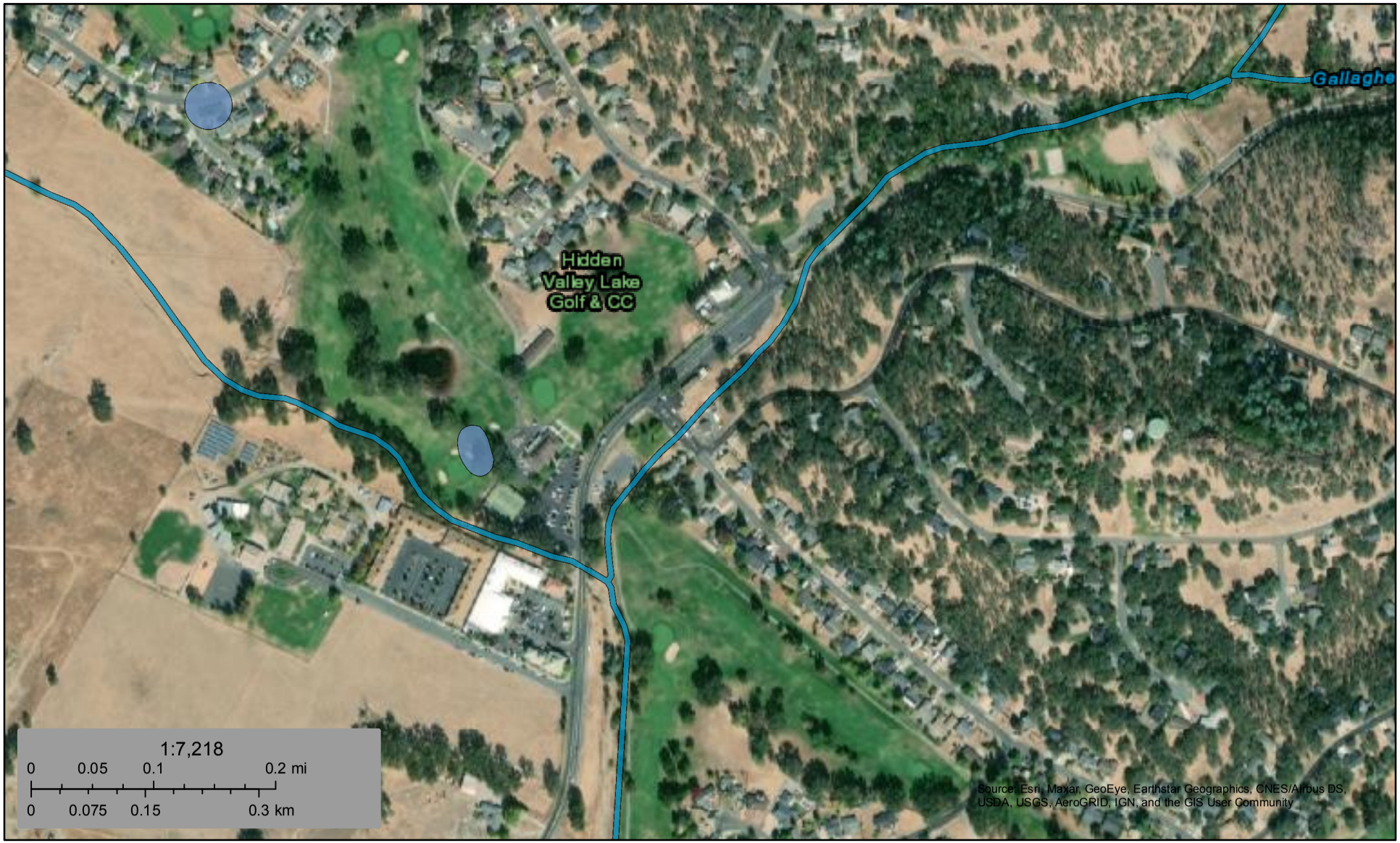
ATTACHMENT C

NATIONAL WETLANDS INVENTORY MAP

U.S. Fish and Wildlife Service

National Wetlands Inventory

Hartmann Complex



November 6, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

ATTACHMENT 3

CULTURAL RESOURCES MONITORING AND TREATMENT AGREEMENT

CULTURAL RESOURCES MONITORING AND TREATMENT AGREEMENT

This Cultural Resources Treatment and Monitoring Agreement ("Agreement") is made and entered into by and between the Middletown Rancheria of Pomo Indians of California, a sovereign government and federally recognized Indian tribe ("Tribe"), and Hidden Valley Lake Association, (each a "Party" and collectively the "Parties").

I. POINT OF CONTACT

All notices to the Parties shall be given at the addresses below:

Tribe	Copy to:
Sally Peterson, Tribal Council Vice-Chairwoman, and Tribal Historic Preservation Officer Middletown Rancheria P.O. Box 1035 Middletown, CA 95461 Phone: (707) 987-3670, Ext. 1307 Facsimile: (707) 987-9091 Email: speterson@middletownrancheria.com Email: THPO@middletownrancheria.com	Ryan Peterson, Admin & Project Coordinator Tribal Historic Preservation Office Middletown Rancheria P.O. Box 1035 Middletown, CA 95461 Phone: (707) 987-3670, Ext. 1315 Facsimile: (707) 987-9091 Email: rpeterson@middletownrancheria.com
Hidden Valley Lake Association:	Copy to:
Name: BRUCE BRASHARES, PRESIDENT Address: 18174 HIDDEN VALLEY RD HVL, CA 95467 Phone: ~~Facsimile~~: 707.987.3138 Email: BBRASHARES@HVLA.COM	Name: RANDY MURRAY, GM Address: 18174 HIDDEN VALLEY RD HVL, CA 95467 Phone: 707.987.3138 X112 ~~Facsimile:~~ Email: GM@HVLA.COM

II. SUBJECT MATTER

This Agreement concerns the Hidden Valley Lake Association Dredging Project and Hidden Valley Lake Association Hartmann Complex Project owned by the Hidden Valley Lake Association, located at 18174 Hidden Valley Road, Hidden Valley Lake, Lake County, California ("Project"). The County of Lake is lead agency for the Project, and responsible for compliance and implementation of the California Environmental Quality Act ("CEQA") and/or Section 106 of the National Historic Preservation Act ("NHPA") applicable to this Project ("Lead Agency").

III. PURPOSE

The purpose of this Agreement is to formalize procedures for the protection and treatment of Native American human remains, funerary objects, ceremonial items or artifacts, sites, features, places, cultural landscapes, sacred features and places, and objects with cultural values to the Tribe (hereinafter "cultural resources"), potentially impacted or found in conjunction with the Project, including archaeological studies, excavation, geotechnical investigations, grading, or any ground disturbing activity including but not limited to the moving of dirt or rocks with heavy equipment or hand tools. Cultural resources that are potentially impacted or found in conjunction with the Project shall be treated in accordance with the provisions of this Agreement. This Agreement also formalizes procedures for tribal monitoring during archaeological studies, grading, and ground-disturbing activities for the Project.

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IV. CULTURAL AFFILIATION

The Parties acknowledge that the Project lies within the ancestral lands of the Tribe and has the potential to effect cultural resources of significance to the Tribe. The cultural resources on or near the Project area are related to the history and tradition of the Tribe and the Lake Miwok peoples from which the Tribe and its people descends. The Project site and surrounding landscape have long been considered as having cultural, historical, and religious significance for the Tribe.

V. MOST LIKELY DESCENDANT

The Parties acknowledge that the Tribe is the Most Likely Descendant ("MLD") of Native American human remains and associated cultural resources found within the exterior boundaries of the aboriginal territories of the Tribe as set forth in the map of ancestral geographic areas of interest of the Tribe, attached and incorporated hereto as **Exhibit A** of this Agreement. Cultural resources have been discovered within the aboriginal territories of the Tribe on occasion and in those cases, the Tribe was designated the MLD by the Native American Heritage Commission ("NAHC") pursuant to the California Public Resources Code section 5097.98. In the event that Native American human remains and associated funerary objects are found during development of this Project, the Parties understand that the determination of the MLD, as described in California Public Resources Code section 5097.98, will be made by the NAHC upon notification to the NAHC of discovery of any such cultural resources at the Project site. The geographic area of interest identified in Exhibit A shall not be interpreted as a representation of the entirety of the ancestral territory of the Tribe as defined by the Tribe.

VI. AVOIDANCE AND MITIGATION OF IMPACTS TO CULTURAL RESOURCES

In order to successfully avoid, minimize or mitigate against impacts to cultural resources, the Parties agree as follow:

a. The Landowner shall promote avoidance and non-disturbance measures as the preferred treatment of cultural resources where feasible. If avoidance is not feasible, the Landowner shall consult with the Tribe in good faith to minimize and mitigate the potential impact of the Project to cultural resources.

b. The Landowner agrees to allow the Tribe to designate tribal monitor(s) to monitor archaeological studies, excavations, and ground disturbing activities on or near the Project site pursuant to this Agreement.

c. Where cultural resources may be reasonably expected to be located within or adjacent to the Project site and the Landowner is required to commission an archaeological assessment, such assessment shall be performed in coordination and consultation with the Tribe, in order to determine the presence and extent of any such resources on or near the Project site and evaluate the eligibility of such resources. The Parties will jointly select the qualified archaeologist if required for such assessment.

    i. The assessment shall include a NAHC, California Historical Resources Information System (CHRIS) and local historical records search, a Phase I walkover survey with the Tribe, and preparation of a written report containing the results of the assessment.

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Phase II archeological evaluations may be completed by the Landowner, if recommended in the Phase I assessment and agreed upon by the Parties.

ii. A copy of all reports shall be mailed or personally delivered to the Tribe with an electronic copy provided. The Tribe shall be provided at least thirty (30) days to comment on all reports before finalization of any such report.

iii. The Parties agree that cultural resources shall not to be excavated or collected during Phase I archaeological assessments.

iv. If a Phase II or further archaeological evaluation is undertaken, the Landowner shall work with the Tribe on the development of the additional work plan necessary for evaluations to create a field strategy, guidelines, and a detailed treatment/disposition plan prior to the commencement of any fieldwork that may result in the impact or discovery of cultural resources. Any such evaluation shall be subject to this Agreement unless otherwise agreed upon in writing between the Parties.

d. Any archaeologists hired to conduct any phase of archaeological investigation must meet the Secretary of the Interior's Professional Qualifications Standards.

e. The Landowner shall make available all pertinent data and records for review by the Tribe.

f. All environmental documents shall be transmitted directly to the Tribe in person or by U.S. mail with an electronic copy provided. The Landowner shall not rely upon the CA State Clearinghouse to provide distribution, but shall provide the information directly to the Tribe in compliance with the statutory review period.

g. Project activities that may have potential impact to archaeological sites or cultural resources related to the Tribe include but not limited to the following:

i. Archaeological studies, excavation, geotechnical investigations, grading, or any ground disturbing activity in areas where ground disturbance has the potential to affect cultural resources with cultural values to the Tribe and included or determined to be eligible or potentially eligible for listing in the National Register of Historic Places ("NRHP"), the California Register of Historical Resources ("CRHR"), or a local register of historical resources as defined in subdivision (k) of section 5020.1 of the California Public Resources Code.

ii. Archaeological studies, excavation, geotechnical investigations, grading, or any ground disturbing activities determined by a qualified professional archaeologist and/or the Tribe to potentially disturb cultural resources with cultural values to the Tribe.

iii. Archaeological studies, excavation, geotechnical investigations, grading, or any ground disturbing activities in areas where tribal villages, gravesites or cultural sites are documented and known to have existed or occurred, or where the Tribe can reasonably demonstrate that villages, gravesites or activity sites are likely to have existed or occurred.

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iv. Archaeological studies, excavation, geotechnical investigations, grading, or any ground disturbing activities in areas that have not been surveyed for cultural resources and where the Tribe has not been consulted.

VII. COORDINATION WITH COUNTY CORONER'S OFFICE

The Landowner shall immediately contact the County Coroner and the Tribe in the event that any human remains are discovered during the Project.

VIII. TREATMENT OF HUMAN REMAINS AND CULTURAL RESOURCES

The Landowner agrees that no human remains and/or associated funerary objects will be disturbed or removed from their original resting place unless removal is unavoidable and necessary. In the event that human remains and/or cultural resources are potentially discovered or disturbed during development of the Project, the following provisions shall be implemented. Landowner shall ensure that its contracts with contractors, subcontractors or affiliates on the Project will include notification of these procedures and shall be required for all persons and work on the Project.

a. Ground disturbing activities in the discovery location with a minimum distance of 100 meters radius from the center of the discovery or potential discovery ("protective buffer") shall cease immediately and the human remains and/or associated funerary objects shall be secured. A qualified archaeologist, the Tribe, or construction crew member (if a qualified archaeologist or the Tribe's representative is not present) shall be empowered to halt all ground disturbing activities in the immediate area of discovery and inform the field superintendent that a stop work order has been requested due to the potential discovery of human remains and/or associated funerary objects. No construction activities will take place within the protective buffer until an archaeological investigation in consultation with the Tribe has been completed. Landowner and/or Lead Agency shall immediately contact the Tribe and provide notice of the discovery or potential discovery of human remains and/or associated funerary objects if the Tribe was not present at the time of the discovery or potential discovery.

b. Out of respect for human remains and/or associated funerary objects, all work related to human remains and/or associated funerary objects shall be conducted out of the public eye, unless otherwise required by law.

c. Methods to protect the discovery or potential discovery shall include fencing around the protective buffer, covering the human remains and/or associated funerary objects with a protective material and culturally sterile soil or plywood, and if vandalism should be considered a threat, establish a 24-hour site security monitor. The area shall not be identified, marked, or otherwise described as containing cultural resources, but may be referred to as an "Environmentally Sensitive Area." The size of the protective buffer may be adjusted as mutually agreed upon between the Parties.

d. All human remains and/or associated funerary objects shall be left in situ, that is, in place, in the same position in which they were discovered and shall not be removed from the site without the prior written consent of the Tribe unless the Coroner has made a determination that the human remains are not of a deceased Native American or otherwise required by law. The Tribe shall have an opportunity to inspect and determine the nature of the find and the

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best course of action for avoidance, protection and/or treatment of Native American human remains and/or associated funerary objects to the fullest extent permitted by law.

e. The Tribe shall be allowed to: (1) inspect the site of the discovery; and (2) make determinations as to how the human remains and/or associated funerary objects shall be treated and disposed of with appropriate dignity. Landowner shall facilitate and ensure that the determination of treatments by the Tribe is followed, unless otherwise required by law. The Tribe shall complete its inspection within forty-eight (48) hours of receiving notification.

f. No laboratory studies, scientific analysis, curation, video recording, or photographs shall be permitted for any human remains and/or associated funerary objects without the prior written consent of the Tribe unless the Coroner has made a determination that the human remains are not of a deceased Native American. A qualified archaeologist may draw the human remains and/or associated funerary objects for mapping purposes; however, no electronic means of recording the human remains or associated funerary objects shall be permitted without the prior written consent of the Tribe.

g. The term "human remains" encompasses more than human bones as the Tribe's tradition periodically necessitated the ceremonial burning of human remains. Associated funerary objects include but is not limited to those objects, materials or artifacts associated and/or found with or near human remains either at the time of death or later as part of the death rite or ceremony of the Tribe. Any associated funerary objects found with or near human remains shall accompany such human remains at all times. Associated funerary objects and the soil, in an area encompassing up to two (2) feet in diameter around the burial, and other funerary remnants and their ashes, are to be treated in the same manner as human bone fragments or bones that remain intact. The Tribe shall have access and discretion to determine whether a cultural resource is an associated funerary object as defined herein. All Native American human remains and/or associated funerary objects shall be treated in accordance with the following.

    i. Avoidance. In every instance of the discovery of Native American human remains and/or associated funerary objects, priority shall first be given to leaving such cultural resources in place and avoidance of any further unnecessary disturbance. The Parties acknowledge that the highest priority is to avoid disturbance to cultural resources through consultation and appropriate avoidance and mitigation measures. It is understood by the Parties that the avoidance of human remains and/or associated funerary objects may require changes to the Project plans and activities where feasible.

    ii. Reburial. In situations where avoidance is not feasible, priority shall next be given to immediately reburying the human remains and/or associated funerary objects in the same location as found, only deeper. In the event that the human remains or associated funerary objects cannot be re-buried in the same location, only deeper, then priority shall next be given to immediately re-burying the human remains and/or associated funerary objects in an appropriate location within 100 feet of their original discovery in an area that shall not be subject to future subsurface disturbances. If for any reason immediate reburial in place, only deeper, or in an appropriate location within 100 feet of the original discovery is not feasible, then human remains and/or associated funerary objects may be re-buried in an appropriate location as determined

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by the Tribe in an area that shall not be subject to future subsurface disturbances. Reburial site shall include the planting of certain plants such as poison oak or black berry, as directed by the Tribe, over the reburial site unless otherwise agreed upon by the Parties. Landowner shall be responsible for reburial costs for each discovery.

iii. Transfer. In the event that avoidance and reburial above described is not feasible, human remains and/or associated funerary objects shall be removed and transferred to the physical custody of the Tribe at a location designated by the Tribe.

iv. Excavation Methods. If the Parties determine that avoidance is not feasible, excavation shall proceed following these procedures. Unless provided otherwise, the following procedures may be adjusted upon written agreement between the Parties.

(1) Tools. All excavation in the vicinity of the human remains and/or associated funerary objects will be conducted using fine hand tools and fine brushes to sweep loose dirt free from the exposure. Human remains and/or associated funerary objects are not to be cleaned using water or any solvent unless agreed upon by the Tribe in writing.

(2) Extent of Exposure. In order to determine the nature and extent of the discovery and its contents, controlled excavation may extend to a full buffer zone around the perimeter of the discovery as appropriate.

(3) Perimeter Balk. To initiate the exposure, a perimeter balk (preferably, a shallow trench) should be excavated, representing a reasonable buffer of at least a minimum of two (2) feet around the maximum extent of the known skeletal remains, with attention to counter-intuitive discoveries or unanticipated finds relating to this or other remains or associated resources. The soil from the perimeter balk should be bucketed, distinctly labeled, and screened for remains and/or associated resources in accordance with the Agreement.

(4) Exposure Methods. Excavation should then proceed inward from the walls of the balk as well as downward from the surface of the exposure. Loose dirt should be scooped out and brushed off into a dustpan or other collective device. Considerable care should be given to ensure that human remains and/or associated funerary objects are not further impacted by the process of excavation.

(5) Provenience. Buckets, collection bags, notes, and tags should be fully labeled per provenience, and a distinction should be made between samples collected from: (1) Perimeter Balk (described above), (2) Exposure (dirt removed in exposing the exterior/burial plan and associations, and (3) Matrix (dirt from the interstices between bones or associations). Thus, each burial may have three (3) bags, "Burial 1 Perimeter Balk," "Burial 1 Exposure Balk," "Burial 1 Matrix."

(6) Records. The following records should be compiled in the field: (1) a detailed scale drawing of the discovery, including the provenience of and full mapping/drawing for all human remains, associated funerary objects, and the configuration of all associated phenomena such as burial pits, evidence for preinterment burial pit burning, soil variability, and intrusive disturbance, (2) a

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record of the internment providing information on site number, unit or other proveniences, level depth, depth and location of the burial from a fixed datum, workers, date(s), and other pertinent observations, and (3) other field notes that may supplement information contained in the burial records. Nothing in the foregoing shall be construed to require the Tribe to disclose any proprietary, confidential or sensitive information unless otherwise required by law.

(7) Association. Association between the human remains and associated funerary objects should be determined in the field by and in consultation with the Tribe. Records of provenience and sample labels should be adequate to determine association or degree of likelihood of association of human remains and associated funerary objects.

(8) Samples. For each burial, all Perimeter Balk soil is to be 1/8"-screened. All Exposure soil is to be 1/8"-screened, and a minimum of one 5-gallon bucket of excavated but unscreened Exposure soil is to be collected, placed in a bag in the bucket. All Matrix soil is to be carefully excavated, screened as appropriate, and then collected in bags placed in 5-gallon buckets. All perimeter Balk soil, Exposure soil and Matrix soil are to be reburied in the same manner as human remains and/or associated funerary objects.

v. Temporary Housing. All human remains and/or associated funerary objects shall be left in situ, that is, in place, in the same position in which they were discovered and shall not be removed from the discovery site until arrangements are made for reburial or transfer to the physical custody of the Tribe in accordance with this Agreement. If leaving the human remains and/or associated funerary objects in situ is not possible, temporary housing at a secured storage location at the discovery site mutually agreed upon by the Parties may be considered. If temporary housing at the discovery site is not feasible, temporary housing at a secured storage location off the discovery site mutually agreed upon by the Parties may be considered. The following primary concerns shall govern the selection of proper padding and housing materials for the human remains and/or associated funerary objects.

(1) The padding materials must provide support and protection for the specimens without introducing contaminants or exposing the human remains and/or associated funerary objects to contact with plastic, metal, or other non-natural materials. Appropriate containers shall be selected for human remains and/or associated cultural resources. Only archival packing materials will be used for both the human remains and/or associated cultural resources, because there is no assurance as to how long a collection will be stored prior to final disposition. Non-archival materials, such as paper bags, may be used temporarily if specialized archival-quality materials are not immediately available upon prior written consent of the Tribe. The packaging of human remains and/or associated funerary objects shall proceed as follows.

A. Each element will be placed in a separate container and/or bag (as determined by the Tribe). If fragments of an element are fragile, then each fragment will be placed inside an appropriate-sized, container, partition, or bag before placing all the fragments into a single element

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bag or box. All element bags/boxes would be labeled with the site number, catalog number, provenience data, and the date and initials of the person packing the remains.

B. Each element bag will be surrounded with padding, and placed securely in a container properly labeled on the exterior.

C. Element bags will be placed inside an appropriate archival container. The bottom and top of the container will be padded, as needed, and the exterior lid of the container would be labeled using a permanent black maker or similar.

D. All storage containers will be placed into a secured, locked area. The repository shall not permit any access to these materials without prior written consent of the Tribe.

E. Portions of the same object will be stored together, if possible, padding each as necessary. Associated funerary objects shall be housed with the associated human remains unless otherwise agreed to in writing by the Tribe.

F. It may be necessary to construct special supports or custom-sized storage containers using archival materials (e.g., acid-free board or cotton muslin). The object forms for these materials will be appended with documentation describing the objectives, techniques and materials used to construct the special supports or storage containers. This will also become part of the record of the discovery.

(2) The tracking information (catalog number and associated provenience data) must remain with the human remains and/or associated funerary objects at all times.

(3) The human remains and/or cultural resources must be treated respectfully.

vi. All reburial, transfer, excavation and temporary housing costs shall be the responsibility of Landowner.

vii. Landowner shall provide the Tribe with an opportunity for religious ceremonies pursuant to the American Indian Religious Freedom Act (42 U.S.C. §1996-1996a) and Executive Order 13007 prior to the disturbance, removal and reburial of human remains and/or associated funerary objects.

h. The Parties are aware that the Tribe may wish to treat certain cultural resources identified by the Tribe as sacred objects, cultural items, and objects of cultural patrimony in the same manner as human remains and/or associated funerary objects including, but not limited to, reburial or return to the Tribe for appropriate treatment pursuant to Section VIII(g) of this Agreement. The Landowner shall accommodate the Tribe's request to the fullest extent permitted by law. Cultural resources shall not be curated, analyzed or handled, except where

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appropriate (from the perspective of the Tribe) and agreed upon in advance in writing by the Tribe.

i. No reports related to any cultural resources shall be published unless agreed upon by the Parties in writing to such publication, or otherwise required by law.

IX. WORK STATEMENT FOR TRIBAL MONITORS

The Tribe shall administer and coordinate tribal cultural resource monitoring for the Project in accordance with this Agreement. A description of work, specifications and compensation for tribal monitoring services at the Project site is attached hereto as **Exhibit B**, Monitoring Description of Work and Protocols and incorporated herein by reference.

X. CONFIDENTIALITY

In connection with this Agreement, each Party recognizes that certain nonpublic, confidential, proprietary information relating to the other Party has been or may be furnished to such Party. It is also understood by the Parties that, unless otherwise required by law, the site of any location of or reburial of cultural resources and all other confidential and proprietary information shall remain confidential pursuant to the Non-Disclosure and Confidentiality Agreement attached hereto as **Exhibit C** and incorporated herein by reference.

XI. OWNERSHIP RELINQUISHMENT

Cultural resources reflect traditional religious and cultural values, beliefs, customs, and practices of the Tribe. The Landowner agrees to waive any and all claims to ownership of Native American cultural resources that are found on the Project site to the Tribe for proper treatment and disposition requested by the Tribe, unless otherwise required by law.

XII. DISPUTE RESOLUTION

Except for actions for nonpayment or breach of confidentiality, all claims, disputes, and other matters in controversy between the Parties arising out of or in any way related to this Agreement shall be submitted as follows as a condition precedent to other remedies provided by law. Prior to commencing litigation, the Party seeking relief shall provide the other Party with a written statement setting forth the matters in dispute and request that the Parties meet and confer at a location where the Project is located, unless another location is mutually agreed upon, on a mutually agreeable date and time within three (3) calendar days after receipt of the request in order to make a good faith attempt to resolve the dispute between the Parties. The Parties may jointly decide to meet and confer at a later time or another place; provided, however, that any such meet and confer process must commence within seven (7) calendar days after the date the request to meet and confer was received unless the Parties agree in writing that there is good cause to extend this time limit. The representatives of the Parties who meet and confer shall have sufficient authority to resolve the matters at issue. Because the purpose of meeting and conferring is to try to arrive at a mutually agreeable resolution of the dispute which may include a compromise or settlement, the Parties agree that statements (including but not limited to any admissions) made during the meet and confer process are confidential and may not be relied upon or introduced as evidence for any purpose, including impeachment, in any legal, equitable or other proceeding, nor may either Party reveal outside

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the meet and confer process, except to that Party's counsel or representative, any proposed resolution of the dispute made by either Party or the fact that either Party did or did not indicate a willingness to accept any proposal to resolve the dispute. Any agreement that is reached during the meet and confer process, however, is not confidential and may be enforced as a modification of the Agreement without further obligation to meet and confer. Notwithstanding the foregoing, any evidence otherwise subject to discovery or otherwise admissible shall not be protected from discovery or from being admitted into evidence simply as a result of it having been used in connection with the meet and confer process. Any court with competent jurisdiction shall have the authority to enforce this provision and to determine if the meet and confer process has been satisfied. Unless otherwise mutually agreed upon between the Parties, all ground disturbing activity shall cease until the meet and confer process is completed.

XIII. INDEPENDENT CONTRACTOR STATUS

Landowner and Tribe shall remain separate and independent entities. None of the provisions of this Agreement are intended to create, nor shall be deemed or construed to create, any relationship between or among the Parties other than that of independent contractors. In the performance of the duties and obligations under this Agreement, it is mutually understood and agreed that each Party is at all times acting and performing as an independent contractor with respect to the other and that no relationship of partnership, joint venture, trust, employment or any fiduciary relationship is created by this Agreement. No employee, agent or subcontractor of either Party shall have any claim under this Agreement or otherwise against the other, for wages, employment benefits, insurance (including Worker's Compensation coverage), disability or unemployment benefits, or any other benefit normally accruing from the relationship as employee, agent or subcontractor.

XIV. SOVEREIGN IMMUNITY

Nothing herein shall be construed as a waiver of sovereign immunity of the Tribe.

XV. NO THIRD-PARTY BENEFICIARIES

Nothing express or implied in the terms and conditions of this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the Parties and their respective successors or assignees, any rights, remedies, obligations or liabilities whatsoever.

XVI. SIGNIFICANT SITES IMPACTED BY PROJECT

The Parties agree that if additional significant sites or discoveries not identified as significant in the Project environmental review process, but later determined to be significant, are located on or near the Project site, such sites may be subjected to further archeological and cultural significance evaluation by the Landowner and the Tribe to determine if additional mitigation measures are necessary to protect and treat cultural resources in a culturally appropriate manner consistent with CEQA, NEPA, NHPA and/or other applicable law for mitigation of impacts to cultural resources and in accordance with this Agreement.

XVII. LIMITATION ON SCOPE

This Agreement is unique to this Project only and does not set a precedent for other projects or future agreements between the Parties.

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XVIII. SUCCESSORS AND ASSIGNS

This Agreement shall be binding upon and inure to the benefit of the heirs, successors, representatives, executors, administrators, and assigns of the Parties, including subsequent land owners and developers of the Project and any person or entity obligated to comply with environmental and cultural/archaeological protection laws applicable to this Project.

XIX. LEGAL COMPLIANCE

Nothing in this Agreement shall excuse the Lead Agency on this Project or the Parties from their obligations under any applicable state or federal laws or regulations, including but not limited to the CEQA; California Public Resources Code § 21000 et seq., the California Civil Code § 815.3; the California Government Code §§ 65040.2, 65092, 65351, 65352, 65560, 65352.3, 65352.4, 65562.5, the NHPA 16 U.S.C. § 470 et seq.; California Public Resources Code Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21082.3, 21083.09, 21084.2, 5097.94, 5097.98, 5097.98(c), and 5097.99; California Health and Safety Code Sections 7050.5(c); California Government Code Section 6254; the Native American Graves Protection and Repatriation Act, 25 U.S.C. § 3001 et seq.; the California Native American Graves Protection and Repatriation Act of 200 1, California Health and Safety Code §§ 8010 et seq.; the Native American Free Practice of Religion Act, 16 U.S.C. § 1996, et seq. Nothing in this Agreement is intended to make any of the above-referenced laws applicable where such laws would otherwise be inapplicable. Further, nothing in this Agreement shall be a waiver of or limitation of any of the Tribe's rights in law, in equity, or otherwise under CEQA, Section 106 of the NHPA nor its sovereign rights as a federally recognized Indian Tribe participating in government-to-government consultation with the Lead Agency on the Project.

XX. AMENDMENTS

This Agreement may be amended or modified if both Parties agree to the amendment in writing.

XXI. SEVERABILITY

Should any part of this Agreement be found by any court or agency of competent jurisdiction to be to any extent invalid or unenforceable, the remainder of this Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law.

XXII. ENTIRE AGREEMENT

This Agreement and its exhibits and any documents referred to herein constitute the complete understanding of the parties and merge and supersede any and all other discussions, agreements and understandings, either oral or written, between the Parties with respect to the subject matter hereof.

XXIII. INTERPRETATION

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The captions or headings contained in this Agreement are included for purposes of convenience only, and shall not affect in any way the meaning or interpretation of any of the terms or provisions of this Agreement.

XXIV. AUTHORITY TO EXECUTE

Each of the persons executing this Agreement expressly warrants that he or she is authorized to do so on behalf of the Party or Parties for which he or she is executing this Agreement. Each Party to this Agreement represents and warrants that this Agreement is executed voluntarily, with full knowledge of its significance.

XXV. COUNTERPARTS

This Agreement may be signed in counterparts, including by means of facsimile or by scanned image (e.g. .pdf or .tiff file extension name) as an attachment to electronic mail, each of which shall be deemed as effective as an original signature, but all of which together shall constitute the same instrument.

XXVI. EFFECTIVE DATE

The effective date of this Agreement shall be the date of the last signature below.

IN WITNESS WHEREOF, the respective Parties have caused this Agreement to be executed by their duly authorized representatives on the date written below.

HIDDEN VALLEY LAKE ASSOCIATION

Bruce Bonham 6/12/20

By: Date

MIDDLETOWN RANCHERIA

Sally Peterson 6/26/2020

By: Sally Peterson, Vice-Chairwoman & THPO Date

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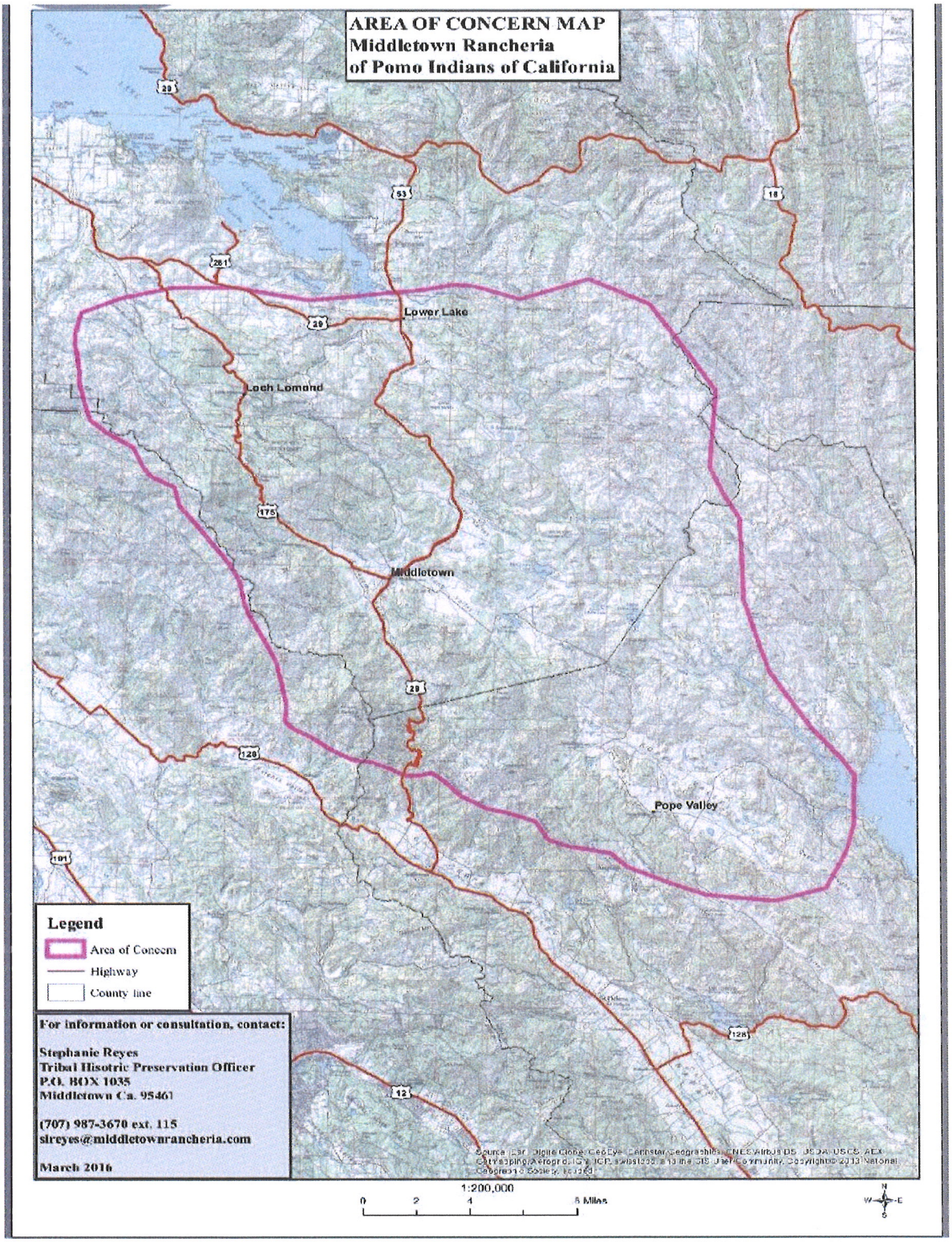

Exhibit A

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Exhibit B

MONITORING DESCRIPTION OF WORK AND PROTOCOLS

1. Terms and Definition

Except as set forth in this Exhibit B, all other terms shall be defined as set forth in the Cultural Resources Treatment and Monitoring Agreement ("Agreement"), incorporated herein.

2. Specifications

a. Given the nature and sensitivity of the archaeological sites and cultural resources that are in or may be on or near the Project, the Tribe shall provide the tribal monitoring and facilitation for the Project during the archeological investigations, and all ground disturbance activities of the Project including but not limited to surveys, testing, concrete pilings, debris removal, rescrapes, punch lists, field grading, discing and erosion control (mulching, waddles, hydroseeding etc.).

b. A tribal monitor shall be present to monitor all archaeological studies, excavations, and ground disturbance activities occurring in conjunction with the Project.

c. The tribal monitors or archaeologists shall be empowered to halt all construction/ground disturbing activities in the immediate area of discovery when known or suspected cultural resources are identified until further evaluation can be made in determining their significance pursuant to the Agreement.

d. If cultural resources are encountered that could potentially be prehistoric or historic cultural resources it will be assumed to meet the NHPA and/or CEQA definition of "historic property" or "historical resource" eligible for inclusion in the NRHP and/or the CRHR until a formal identification and determination of the significance of the find can be made by a qualified archaeologist and tribal monitor in accordance with the Agreement.

e. Before any action is taken on cultural resources, the tribal monitor shall report to the Tribe on how best to proceed in a culturally appropriate manner.

3. Project Schedule and Crew Size

a. Landowner shall provide advance notice of the anticipated Project work schedule involving archaeological studies, excavations, and ground disturbance activities as early as possible or a minimum of ten (10) business days prior to the specified work commencing. If, after being given the required advance notice, tribal monitors are not available to monitor the work, Landowner may proceed work without a tribal monitor on site.

b. Landowner shall provide advance notice to the Tribe of all modifications to the Project's activities involving archaeological studies, excavations, and ground disturbance activities prior to the commencement of any modified work.

c. The tribal monitoring crew size shall be determined and agreed upon by the Parties in advanced based on the scope of the work/activities of the Project. Depending on the scope of work or activities of the Project (e.g., inadvertent discoveries of cultural resources or simultaneous

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activities in multiple locations that requires multiple tribal monitors, etc.), additional tribal monitors may be required.

d. There shall be at minimum one monitor for every separate area of ground disturbing activity, whether construction or archaeological excavation that is at least 30 meters apart. If additional tribal monitors are needed, Landowner shall provide the Tribe with a minimum of ten (10) business days advance notice unless otherwise agreed upon between the Parties. If Landowner fails to provide such notice, and a tribal monitor is not available, work shall be delayed until a tribal monitor can be made available. In no case, however, shall work be delayed for more than ten (10) business days.

4. Compensation

Landowner agree to directly compensate the Tribe for all of the tribal monitoring services in accordance with the following compensation rates and procedures. The Tribe shall submit invoices to Landowner on at least a monthly basis. Landowner shall review invoices and submit payment within fifteen (15) days of receipt of invoice to assure timely tribal monitor compensation.

The fee schedule for the use of tribal monitors is as follows:

Staff Description	Rate (Hourly)
Project Manager	$200.00
Native American Ethnographer/Archaeologist, or Cultural Advisor	$150.00
Project Coordinator	$95.00
Field Operations Coordinator	$95.00
Lead Cultural Resources Monitor	$75.00
Native American Monitor	$75.00
GIS/Data Analyst	$100.00
Administration	$50.00
Accounting	$50.00

- Rates include direct labor, overhead, G&A, and fee.
- The above rates shall be effective until for the term of the Agreement.
- All Other Direct Costs, Travel and Subcontractors will be charged at cost plus 10%.
- Mileage will be charged pursuant to the federal GSA rates and will include daily commute. Vehicle rentals plus gas are reimbursable at cost.
- A day charge of four (4) hours ("show up" time) shall be charged to the Landowner for unannounced work stoppages that are not due to actions of the Tribe.
- Additional reproduction costs may be incurred and reimbursable at cost.

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- ❖ If Overtime (over 8 hours in a day) and Weekends are required, it will be invoiced at 150% of the hourly rate. Federal Holiday Hours will be invoiced at 200% of the hourly rate.
- ❖ Tribal Administrative and/or Indirect Costs Fee is 15% of each invoice.

If Landowner fails to submit payment within fifteen (15) days of receipt of invoice, then Landowner shall pay to the Tribe, in addition to the invoice amount, a late charge in the amount of five percent (5%) of the delinquent invoice amount. If Landowner fails to submit payment within forty-five (45) days of receipt of invoice, then Landowner shall pay to the Tribe, in addition to the invoice amount, a late charge in the amount of ten percent (10%) per annum of the delinquent invoice amount. Any late charge and collection thereof shall be in addition to all of the Tribe's other rights and remedies hereunder or at law or in equity and shall not be construed as liquidated damages or as limiting the Tribe's remedies in any manner. Any payments of any kind returned for insufficient funds will be subject to an additional handling charge of one hundred dollars ($100.00). Landowner agrees to promptly pay the Tribe for any expenses reasonably incurred by it, including reasonable attorneys' fees, in seeking payments of all amounts owed under this Agreement.

5. Project Manager of the Tribe

The Tribe hereby designates Ryan Peterson as its Project Coordinator to serve as the Tribe's primary point of contact for this Agreement. If for any reason Mr. Peterson becomes unavailable, the Tribe will appoint a designee and promptly notify the Landowner immediately.

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Exhibit C

NON-DISCLOSURE AND CONFIDENTIALITY AGREEMENT

This CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT ("Agreement") is made and entered into by and between the Middletown Rancheria of Pomo Indians of California, a sovereign government and federally recognized Indian tribe ("Tribe"), and the Hidden Valley Lake Association (each a "Party" and collectively the "Parties").

RECITALS

WHEREAS, the Recipient has received, may receive, and/or have access to, certain confidential and/or proprietary information of the Tribe and/or its officials, members and employees in connection with ongoing consultation with the Tribe related to the Project;

WHEREAS, such information is sensitive in nature to the Tribe;

WHEREAS, in order to establish protocols for the relationship between the Tribe and Recipient and formalize procedures for the protection and treatment of Native American human remains, funerary objects, ceremonial items or artifacts, sites, features, places, cultural landscapes, sacred features and places, and objects with cultural values to the Tribe ("cultural resources"), potentially impacted or found in conjunction with the Project, Recipient may need to, or have opportunity to, secure from the Tribe what would otherwise be strictly confidential and/or proprietary information of the Tribe;

WHEREAS, the Tribe requires that its officials, members and employees maintain the confidentiality of such information, and the Tribe further requires that the contents, nature and communications between the Parties, be kept strictly confidential and not be disclosed to third parties without the prior written consent of the Tribe unless otherwise required by law; and

WHEREAS, the Parties, through this Agreement, desire to establish and set forth obligations with respect to the confidential and/or proprietary information disclosed to Recipient in connection with the Project.

NOW, THEREFORE, the Parties agree as follows:

AGREEMENT

1. Except as set forth in this Exhibit C, all other terms shall be defined as set forth in the Cultural Resources Treatment and Monitoring Agreement, incorporated herein.

2. **Definition of Confidential Information**. The term "Confidential Information" includes any and all ideas, information, and materials, whether oral, written electronic, or in any other form, tangible or intangible, or observed from observation, that are not generally known to the public and that relate, in any manner, to the religious, cultural and historical activities, rituals, practices, places and/or objects of the Tribe including, but not be limited to, cultural and historical records, personnel records, litigation information, electronic files, email, CDs, photographs, agreements, unique and special methods, techniques, procedures, processes, routines, formulas, data, know-how, discoveries, improvements, research and development and test results, research papers, specifications, quality controls, formats, plans, sketches, drawings, models, concepts, ideas, observations and all other

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documentation and information, including, without limitation, any information divulged in verbal conversations disclosed from the Tribe to the Recipient, which the Parties may exchange and receive.

3. **Exceptions to Confidential Information**. The term "Confidential Information" shall not include what would otherwise be deemed Confidential Information if the Recipient can document that: (a) it was in the public domain at the time it was communicated to the Recipient by the Tribe; (b) it entered the public domain subsequent to the time it was communicated to the Recipient without any action by or involvement of the Recipient; (c) it was in the Recipient's possession free of any obligation of confidence at the time it was communicated to the Recipient by the third party; or (d) the Recipient becomes legally compelled to disclose provided that the Recipient; (i) uses its best efforts to provide the Tribe with prompt notice of such disclosure prior to making the disclosure or as soon as reasonably practical after such disclosure is made; (ii) only provides that portion of the proprietary technical and commercial information that is legally required; and (iii) interposes a confidentiality defense based upon this Agreement in an effort to ensure that confidential treatment will be afforded to any disclosed information.

4. **Handling of Confidential Information**.

   A. To ensure that cultural resources located on or near the Project area are not subject to vandalism or destruction, all information regarding the site of any discovered, burial or reburial of cultural resources shall remain confidential and shall not be disclosed without the prior written consent of the Tribe.

   B. Pursuant to California Government Code section 6254, subdivision (r), the Parties understand that the California Public Records Act, California Government Code section 6250 et seq., does not require the disclosure of records of sensitive cultural, archaeological, and/or paleontological resources sites including but not limited to Native American graves, cemeteries, and sacred places and records of Native American places, features, and objects described in sections 5097.9 and 5097.993 of the California Public Resources Code maintained by, or in the possession of, the Native American Heritage Commission, another state agency, or a local agency. The Parties further understand that Section 304 of the National Historic Preservation Act, as amended provides a process to restrict disclosure of information about resources that might result in harm to the property, a significant invasion of privacy, or impediments to traditional religious practice at such site. Unless otherwise required by law, Recipient shall withhold public disclosure of such information.

   C. Recipient agrees that at all times and notwithstanding any termination or expiration of this Agreement it will hold in strict confidence and not disclose to any third party Confidential Information, except as approved in writing by the Tribe, and will use the Confidential Information for no purpose other than necessary for the protection of cultural resources as set forth in the Cultural Resources Treatment and Monitoring Agreement. Recipient shall not use any Confidential Information to compete with or adversely affect the interest, business or operations of the Tribe.

   D. Recipient shall not disclose or transmit any Confidential Information to any person or entity except its directors, officers, managers, employees, agents, attorneys, accountants, advisers, consultants, contractors or affiliates who (i) have a need to know the Confidential Information in connection with the Project, and (ii) have been informed of and agree to abide by Recipient's under this Agreement. Recipient shall inform each directors, officers, managers, employees,

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agents, attorneys, accountants, advisers, consultants, contractors or affiliates that by accepting such access, he, she, or it agrees to be bound by the provisions of this Agreement. By allowing any such access, Recipient agrees to be and remain jointly and severally liable for any use or disclosure by such directors, officers, managers, employees, agents, attorneys, accountants, advisers, consultants, contractors or affiliates in violation of this Agreement. Recipient shall use at least the highest degree of care as Recipient uses for its own confidential information of like importance to avoid disclosure of Confidential Information and, at a minimum, shall exercise reasonable care. Recipient shall notify the Tribe in writing immediately upon learning of any unauthorized release of Confidential Information or other breach of this Agreement.

E. In the event that the Recipient receives additional written approval from the Tribe to disseminate Confidential Information to a third party, the Recipient shall secure and provide to the Tribe a confidentiality agreement containing the material terms hereof signed by said third party prior to the dissemination of any Confidential Information.

F. Nothing in this Agreement shall require that the Tribe to disclose any Confidential Information to the Recipient.

5. **Term and Termination.**

A. Upon termination or expiration of this Agreement, or at the request of the Tribe, the Recipient shall promptly return all Confidential Information that is in tangible form including but not limited to, documents, electronic information, files, photographs, or other materials containing the Confidential Information to the Tribe and all copies thereof or otherwise destroy any copies of the Confidential Information that is in tangible form.

B. The Parties obligations hereunder shall continue beyond the termination of any relationship between the Parties and beyond the return of the Confidential Information documentation hereunder.

6. **Breach and Remedies**. Because the extent of the monetary damages that the Tribe would sustain in the event that the Recipient were to violate this Agreement may be difficult to ascertain, and because an award of monetary damages might be inadequate to protect the Tribe's rights, if the Recipient or any of its directors, officers, managers, employees, agents, attorneys, accountants, advisers, consultants, contractors or affiliates thereof threatens to violate or violates the obligations of confidentiality assumed hereunder, the Tribe shall be entitled to seek and obtain monetary damages, specific performance, temporary, preliminary and injunctive relief against such threatened or actual breach, as well as an award of reasonable attorneys' fees, costs and expenses. The Tribe shall be entitled to preliminary and injunctive relief, without the necessity of posting of bond or an equitable accounting of all profits or benefits arising out of such breach, which remedy shall be in an addition to any other rights or remedies to which the Tribe may be entitled. Further, to the extent that the Tribe may be able to demonstrate that it has sustained monetary damages by reason of such breach prior or subsequent to the award of injunctive relief, the Tribe shall be entitled to recover the full measure of such damages, including fees, costs and expenses incurred in enforcing its rights under this Agreement, in either that action or a separate action. The Parties acknowledge that the Confidential Information is valuable and unique, that the Tribe would not provide the Confidential Information to Recipient if Recipient did not agree to this Agreement, and that disclosure will result in irreparable injury to the Tribe.

Initial_
Initial_

7. **Severability**. If any portion of this Agreement is found to be invalid or unenforceable, the remaining provisions shall continue in full force and effect. Failure to enforce one part of this Agreement shall not be deemed a waiver of the entire Agreement or of other sections, terms or conditions of this Agreement. No provision of this Agreement may be waived except by an agreement in writing signed by all Parties.

8. **Warranties**. Each Party represents and warrants that (i) it has the legal and valid right to enter into this Agreement, and (ii) the performance by it of its obligations arising hereunder does not and will not violate the terms of any other agreement or understanding to which it is a party.

9. **Modification and Assignment**. Modifications to this Agreement must be done in writing and be signed by both Parties. This Agreement may be assigned or transferred only with prior written consent of all Parties

10. **Effective Date**. The effective date of this Agreement shall be the date of the last signature below.

IN WITNESS WHEREOF, the respective Parties have caused this Agreement to be executed by their duly authorized representatives on the date written below.

Executed by:

HIDDEN VALLEY LAKE ASSOCIATION

Bruce Bradham — 6/12/20

By: — Date

MIDDLETOWN RANCHERIA

Sally Peterson — 6/26/2020

By: Sally Peterson, Vice-Chairwoman & THPO — Date

Initial_
Initial_

ATTACHMENT 4

CULTURAL RESOURCES ASSESSMENT

Confidential Appendix

ATTACHMENT 5

ASBESTOS REPORT

Adam Laboratories, Inc.
3807 Pasadena Avenue, Suite 190
Sacramento, CA 95821
Phone: (916) 979-9250
Fax: (916) 979-9251
Phone: (916) 979-9250

Asbestos Report

Date: *January 29, 2020*

Client: *Hidden Valley lake Association*

Site: *19210 Hartman Rd.*
Hidden Valley Lake, CA

On January 27, 2020, A Certified Asbestos Consultant conducted an Asbestos Survey of the commercial building above mentioned. A representative number of samples were collected throughout the areas subject to be remodeled/disturbed during the course of this scope of work. Floor, walls and ceiling samples were collected. Please see laboratory data report attached. Lab # 20AB133.

Results indicate that Asbestos was identified at the site above. The identified asbestos containing material must be properly removed prior to any renovation and/or demolition that may disturb asbestos containing material. The information provided in this report can be used to obtain accurate bids from abatement contractors.

The identified asbestos containing material must be properly removed prior to any renovation and/or demolition that may disturb asbestos containing material. The information provided in this report can be used to obtain accurate bids from abatement contractors. All other building material containing asbestos greater than one percent (>1%) is regulated waste according to Environmental Protection Agency. Below are approximate quantities of >1% asbestos containing material found on site:

- Non-friable (NESHAP Category I) Asbestos Containing Material (vinyl floor tile & floor mastic): Approx. 1,230 Ft^2

Also, the laboratory data obtained indicate that Asbestos below one percent (<1%) was identified at the site above in some of the composite wallboard samples collected. The identified asbestos containing material must be properly removed prior to any renovation and/or demolition that may disturb asbestos containing material. The information provided in this report can be used to obtain accurate bids from abatement contractors. Based on sample results, all wallboard throughout the building shall be treated as containing less than one percent asbestos.

The information provided in this report can be used to obtain accurate bids from abatement contractors. Based on sample results, all wallboard throughout the building shall be treated as containing less than one percent asbestos.

The above site address falls under the jurisdiction and is subject to the requirements of the local Air Quality Management District. The building material sample collection was conducted by a State OSHA Certified "Site Surveillance Technician" and/or "Asbestos Consultant" under Adam Laboratories Inc. (in accordance with Rule 902 Section 401.3). The location of asbestos containing material, quantity, percent, friability, type of asbestos, and date sampled can be found on the attached analytical lab report.

The below table lists identified asbestos containing material with concentrations of asbestos greater than one percent. The building material tested is hereafter quantified and categorized according to the present physical conditions, physical characteristic properties, and potential ability to be rendered airborne otherwise know as friability. Friable asbestos containing material is the more hazardous than non-friable asbestos and can be rendered airborne by hand pressure. According to the local AQMD, the abbreviation RACM is used to classify friable or/and the potential to become friable asbestos containing material and is therefore categorized as Regulated Asbestos Containing Material (RACM).

Sample Number	**Suspect Material**	**Asbestos Content %** *(PLM/PC)*	**EPA Category**	**Total Quantity** Sq./Ln/Cu. Feet
22, 23, 24, 25, 26 & 27	VFT & Floor Mastic	1-10%	CAT I	1,230 ft^2

Employed asbestos abatement must be performed in accord with State OSHA, and Federal Regulations (CCR & CFR) by a Licensed Asbestos Abatement Contractor certified by the State of California Division of Occupational Safety and Health (DOSH). Containment and disposal of ACM must be in accordance with Local EPA (Air Quality Management District).

An Asbestos Abatement Plan can be provided by request, if so please contact us at the number provided in the letterhead.

Approved by,



Adam Jahnsen, Certified Asbestos Consultant (DOSH #00-2813)

Any building materials not mentioned in this report should be assumed as ACM until proven otherwise through proper sampling and analysis. This includes other areas that are not mentioned with similar materials. Upon discovery of unmentioned material, work must cease until further sampling is conducted.

This document is filed under lab identification number 20ABR133

ADAM Laboratories INC.
3807 Pasadena Ave. Ste., 190
Sacramento, CA 95821
Fax: (916) 979-9251
Phone: (916) 979-9250

AIHA Laboratory #163722

Lab #: 20AB133
Date Sampled: 1/27/2020
Date Analyzed: 1/28/2020
Sampled By: Adam Jahnsen
Analyzed By: Adam Jahnsen

Assessment and Analysis of Bulk Asbestos by Polarized Light Microscopy (PLM) EPA 600/M4 Method

CLIENT: *Hidden Valley Lake Assoc.* ***SITE:*** *19210 Hartman Rd. Hidden Valley Lake, CA* ***CLAIM#*** *n/a*

No.	LAYERS	AREA FT^2	LOCATION	DESCRIPTION	I.D.	RACM	RESULT
1	2	*	bar dining room SW wall	texture coat w/paint	Cellulose Fibers		NAD
2	5	*	bar dining room SW wall	joint compound/tape/paint	Cellulose Fibers		NAD
3	2	*	bar liquor room floor	12" vinyl floor tile w/mastic	Cellulose Fibers		NAD
4	1	*	bar dining room E floor	glue	Cellulose Fibers		NAD
5	2	*	bar E area N wall	texture coat w/paint	Cellulose Fibers		NAD
6	5	*	bar E area N wall	joint compound/tape/paint	Cellulose Fibers		NAD
7	2	*	bar men's bathroom ceiling	texture coat w/paint	Cellulose Fibers		NAD
8	5	*	bar men's bathroom ceiling	joint compound/tape/paint	Cellulose Fibers		NAD
9	2	*	bar women's bathroom ceiling	texture coat w/paint	Cellulose Fibers		NAD
10	5	*	bar women's bathroom ceiling	joint compound/tape/paint	Cellulose Fibers		NAD
11	1	*	bar dance floor (wood)	glue	Cellulose Fibers		NAD
12	2	*	bar janitor closet floor	linoleum w/felt	Cellulose Fibers		NAD
13	2	*	bar liquor room N wall	texture coat w/paint	Cellulose Fibers		NAD
14	5	*	bar liquor room N wall	joint compound/tape/paint	Cellulose Fibers		NAD
15	2	*	kitchen walk-in fridge floor	linoleum w/felt	Cellulose Fibers		NAD
16	2	*	kitchen ceiling	texture coat w/paint	Cellulose Fibers		NAD
17	5	*	kitchen ceiling	joint compound/tape/paint	Cellulose Fibers		NAD
18	5	*	kitchen S wall	joint compound/tape/paint	Cellulose Fibers		NAD
19	1	*	kitchen center wall panel	glue	Cellulose Fibers		NAD
20	2	*	kitchen floor	linoleum w/felt	Cellulose Fibers		NAD

LEGEND

APPROVED BY:

Adam Jahnsen, Lab Director
Certified Asbestos Consultant
CAL/OSHA: 00-2813

NAD = Non Asbestos Detected. DL = detection limit: <1% asbestos (trace). I.D. = fiber identification and/or asbestos type - percent.

Friable Asbestos = NESHAP RACM (Regulated Asbestos Containing Material): can be crumbled, pulverized or reduced to powder by hand pressure.

Non-friable Asbestos = NESHAP Category I material (resilient floor covering, vinyl floor tile, asphalt roofing products, packings and gaskets that cannot be rendered airborne by hand pressure) and/or NESHAP Category II material (all other non-friable asbestos containing material). Note that because of age or treatment, Category I and Category II materials, can be, and/or have the potential to become RACM.

RACM = NESHAP Regulated Asbestos Containing Material is all Friable ACM (>1% asbestos), including some conditions of Non-friable Category I & II ACM.

NESHAP = US EPA National Emissions Standards for Hazardous Air Pollutants

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AIHA Laboratory #163722

Lab #: 20AB133
Date Sampled: 1/27/2020
Date Analyzed: 1/28/2020
Sampled By: Adam Jahnsen
Analyzed By: Adam Jahnsen

ASSESSMENT AND ANALYSIS OF BULK ASBESTOS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA 600/M4 METHOD

CLIENT: *Hidden Valley Lake Assoc.*
SITE: *19210 Hartman Rd. Hidden Valley Lake, CA*
CLAIM# *n/a*

No.	LAYERS	AREA FT²	LOCATION	DESCRIPTION	I.D.	RACM	RESULT
21	1	*	kitchen/dining room East floor	carpet glue	Cellulose Fibers		NAD
22	1	1050	kitchen/dining room South floor	12" vinyl floor tile	Chrysotile - 1%		Non-friable Asbestos
23	1	1050	kitchen/dining room South floor	black mastic	Chrysotile - 10%		Non-friable Asbestos
24	1	144	kitchen East storage room floor	12" vinyl floor tile	Chrysotile - 1%		Non-friable Asbestos
25	1	144	kitchen East storage room floor	black mastic	Chrysotile - 10%		Non-friable Asbestos
26	1	36	kitchen/dining room S. hall floor	12" vinyl floor tile	Chrysotile - 1%		Non-friable Asbestos
27	1	36	kitchen/dining room S. hall floor	black mastic	Chrysotile - 10%		Non-friable Asbestos
28	2	*	kitchen soda room floor top layer	linoleum w/felt and glue	Glass and Cellulose Fibers		NAD
29	2	*	kitchen soda room floor bottom layer	linoleum w/felt and glue	Glass and Cellulose Fibers		NAD
30	2	*	kitchen/dining room West wall	texture coat w/paint	Cellulose Fibers		NAD
31	5	*	kitchen/dining room West wall	joint compound/tape/paint	Cellulose Fibers		NAD
32	2	*	kitchen/dining room South wall	texture coat w/paint	Cellulose Fibers		NAD
33	2	*	kitchen upstairs storage room floor	linoleum w/felt and glue	Glass and Cellulose Fibers		NAD
34	2	*	kitchen upstairs office ceiling	texture coat w/paint	Cellulose Fibers		NAD
35	5	*	kitchen upstairs office ceiling	joint compound/tape/paint	Cellulose Fibers		NAD
36	5	*	kitchen upstairs room South wall	joint compound/tape/paint	Chrysotile - <1%		Trace Asbestos (as composite)
37	5	*	pro shop closet wall	joint compound/tape/paint	Cellulose Fibers		NAD
38	2	*	pro shop ceiling	texture coat w/paint	Cellulose Fibers		NAD
39	5	*	pro shop ceiling	joint compound/tape/paint	Cellulose Fibers		NAD
40	5	*	pro shop sales floor wall	joint compound/tape/paint	Chrysotile - <1%		Trace Asbestos (as composite)

LEGEND

APPROVED BY:

Adam Jahnsen, Lab Director
Certified Asbestos Consultant
CAL/OSHA: 00-2813

NAD = Non Asbestos Detected. DL = detection limit: <1% asbestos (trace). I.D. = fiber identification and/or asbestos type - percent.

Friable Asbestos = NESHAP RACM (Regulated Asbestos Containing Material): can be crumbled, pulverized or reduced to powder by hand pressure.

Non-friable Asbestos = NESHAP Category I material (resilient floor covering, vinyl floor tile, asphalt roofing products, packings and gaskets that cannot be rendered airborne by hand pressure) and/or NESHAP Category II material (all other non-friable asbestos containing material). Note that because of age or treatment, Category I and Category II materials, can be, and/or have the potential to become RACM.

RACM = NESHAP Regulated Asbestos Containing Material is all Friable ACM (>1% asbestos), including some conditions of Non-friable Category I & II ACM.

NESHAP = US EPA National Emissions Standards for Hazardous Air Pollutants

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AIHA Laboratory #163722

Lab #: 20AB133
Date Sampled: 1/27/2020
Date Analyzed: 1/28/2020
Sampled By: Adam Jahnsen
Analyzed By: Adam Jahnsen

ASSESSMENT AND ANALYSIS OF BULK ASBESTOS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA 600/M4 METHOD

CLIENT: *Hidden Valley Lake Assoc.* ***SITE:*** *19210 Hartman Rd. Hidden Valley Lake, CA* ***CLAIM#*** *n/a*

No.	LAYERS	AREA FT²	LOCATION	DESCRIPTION	I.D.	RACM	RESULT
41	5	*	attic HVAC room wall	joint compound/tape/paint	Chrysotile - <1%		Trace Asbestos (as composite)
42	2	*	pro shop janitor closet	linoleum w/felt and glue	Glass and Cellulose Fibers		NAD
43	2	*	roof North end top layer	asphalt shingle	Glass and Cellulose Fibers		NAD
44	2	*	roof North end bottom layer	felt	Cellulose Fibers		NAD
45	2	*	roof South end top layer	asphalt shingle	Glass and Cellulose Fibers		NAD
46	2	*	roof South end bottom layer	felt	Cellulose Fibers		NAD

LEGEND

NAD = Non Asbestos Detected. DL = detection limit: <1% asbestos (trace). I.D. = fiber identification and/or asbestos type - percent.

Friable Asbestos = NESHAP RACM (Regulated Asbestos Containing Material): can be crumbled, pulverized or reduced to powder by hand pressure.

Non-friable Asbestos = NESHAP Category I material (resilient floor covering, vinyl floor tile, asphalt roofing products, packings and gaskets that cannot be rendered airborne by hand pressure) and/or NESHAP Category II material (all other non-friable asbestos containing material). Note that because of age or treatment, Category I and Category II materials, can be, and/or have the potential to become RACM.

RACM = NESHAP Regulated Asbestos Containing Material is all Friable ACM (>1% asbestos), including some conditions of Non-friable Category I & II ACM.

NESHAP = US EPA National Emissions Standards for Hazardous Air Pollutants

APPROVED BY:

Adam Jahnsen, Lab Director
Certified Asbestos Consultant
CAL/OSHA: 00-2813

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ADAM Laboratories INC.

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Sacramento, CA 95821
Phone: (916) 979-9250
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AIHA Laboratory I.D. #163722

Lab Number: 20ABP133
Date Received: 1/27/2020
Date Analyzed: 1/28/2020
Date Reported: 1/29/2020
Analyst: Adam Jahnsen

Analysis of Bulk Asbestos by Polarized Light Microscopy (PLM) EPA POINT COUNT 1,000 Method

CLIENT: *Hidden Valley Lake Assoc.*

SITE: *19210 Hartman Rd.*
Hidden Valley Lake, CA

JOB #: n/a

No.	SAMPLE	LAYERS	DESCRIPTION	I.D.	PERCENT OF POINT COUNT TOTAL ASBESTOS	%
1	36	5	composite wallboard (sheetrock/paint/paper/tape/joint compound)	Chrysotile	Asbestos	0.2
2	40	5	composite wallboard (sheetrock/paint/paper/tape/joint compound)	Chrysotile	Asbestos	0.1
3	41	5	composite wallboard (sheetrock/paint/paper/tape/joint compound)	Chrysotile	Asbestos	0.2

*** LEGEND**

NAD = no asbestos detected
RL = reporting limit: 0.1% asbestos
I.D. = fiber identification and/or asbestos type
<0.1 = Chrysotile fibers observed but did not fall under any counted points

APPROVED BY:

Adam D. Jahnsen, Lab Director

Analytical results represent the analysis of samples collected by ADAM Laboratories INC. This report is generated at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies will not be released to a third party without written request from the client. Sample(s) will be retained for a period of twelve months for possible future analytical verification, after which, the sample(s) will be disposed of according to all state and federal guidelines. ADAM Environmental Laboratories is a participant in the BAPAT (Bulk Asbestos Proficiency Analytical Testing) quality assurance program by AIHA (American Industrial Hygiene Association).

ATTACHMENT 6

DRAINAGE STUDY AND HYDRAULIC ANALYSIS

Drainage Study and Hydraulic Analysis For

Hartmann Complex
19210 Hartmann Dr.,
Hidden Valley Lake, CA 95467

APN: 119-0120-137

June 5, 2020

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95672

Table of Contents

Section	Page
Cover	1
Table of Contents	2
Scope of Study	3
Existing Site Description	3
Location Map	4
Site Photos	5
Proposed Improvements	4
General Site Plan	4
Offsite Drainage Improvements	5
Drainage Easements or Permits Required	5
Drainage Facility Impacts to Habitats and Downstream Features	5
Site Grading	5
Storm Water Quality and Baseline Hydromodification	5
Runoff Calculation Methodology	6
Description of methods and criteria used	6
Peak Storm Water Runoff Rate and Volume	6
Hydraulic Analysis and Calculation	6
Overall Conclusions and Mitigation Measures	6

Exhibit	Description
Exhibit A	Pre-Development Shed Map, Exhibit A.
Exhibit B	Post-Development Shed Map, Exhibit B.
Exhibit C	Pre and Post Drainage Runoff Calculations
Exhibit D	Drainage System Flow Calculations

Scope of Study

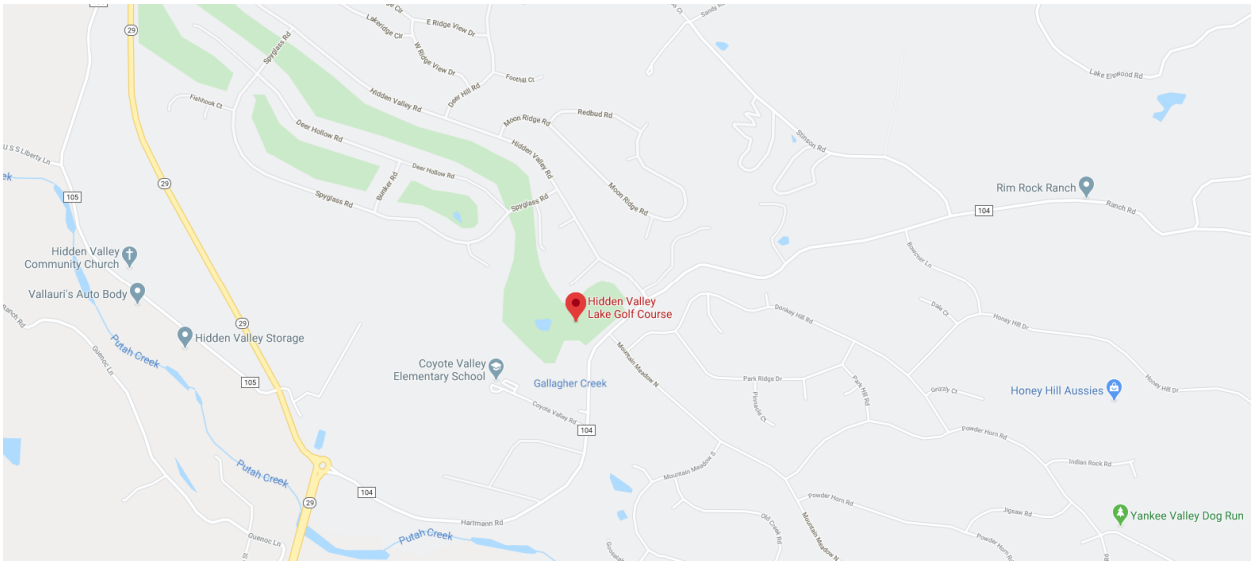
The purpose of this study is to give evidence through accepted calculation methods that the proposed development has been designed to accept and transmit the anticipated run-off based on the California State Phase II Small MS4 General Permit Requirements and Policies as well as Lake County Hydrology Design Standards

Existing Site Description

General Site Description

The existing project site is located on the Hidden Valley Lake Golf Course located at 19210 Hartmann Dr., Hidden Valley Lake. The project site is approximately 4.48 acres located on property with approximately 1.90 acres of impervious surface. This is a fully developed site with existing buildings, parking lots, and landscaping. The site has an unused/ineffective existing storm drain system which leaves the site's runoff to a swale that overland release into the creek located on the southwest edge of the property. The creek flows from the Northeast to the Southwest into a culvert that crosses under Hartmann Drive.

Location Map



Site Aerial



Proposed Improvements

Description of Improvements

The proposed project is the construction of an approximately 12,500 sqft building, an outdoor patio, drop off area, and parking lot. The proposed site will have a total of 2.91 acres of impervious surface out of the 4.48 acres project site and will have a storm drain system to transmit the storm water to it existing release point and will incorporate Bioretention. The proposed project's drainage system releases into the creek located on the southwest edge of the site at the same location of the existing site's swale releases.

General Site Plan

The project has been designed using traditional pipe and drain systems within the paved and landscaped areas which will collect runoff on-site and be piped to the County's storm drain system. Where able the site detaches paving to drain towards landscaping and Bioretention before being collected in the storm drainage system. A schematic of the drainage system can be seen in Exhibit B – Proposed Shed Map.

Offsite Drainage Improvements

None found necessary and none proposed with this development.

Drainage Easements or Permits Required

No Easement found necessary to be conveyed or granted and none existing to be utilized.

Drainage Facility Impacts to habitats and downstream features

Not expected or anticipated based on the proposed development and existing drainage features.

Site grading

The building and surrounding grading has been designed to generally slope away from the building in accordance with local and state codes. Drains and pipelines have been designed to convey typical runoff however, overland release points have been provided in the event drainage systems failure. The proposed structure is not at risk in the event all of the drainage systems fail, although proper maintenance of the proposed drainage systems should always be performed by the owner.

Storm Water Quality and Baseline Hydromodification

The California State Phase II Small MS4 General Permit requires treatment measures on regulated projects which are projects that create or replace more than 5,000 square feet of new impervious area per Section E.12. Projects that create or replace more than 1 acre (43,560 square feet) of new impervious area require hydromodification management measures. The proposed project creates or replaces approximately 2.91 acres of new impervious area.

The storm water treatment and the hydromodification management measures for the project will be Bioretention sized per Section E.12.ii.f, which is 4% of the tributary impervious created or replaced in the project. The project creates or replaces 126,958 square feet (2.91 acres) of impervious area and 4% of this area is 5,078 square feet. The Bioretention proposed for the project is approximately 5,318 square feet, which meets the sizing requirements.

Runoff Calculation Methodology

Description of methods and criteria used

To calculate to the peak storm water runoff of the site, Lake County Hydrology Design Standards were used. The design standards use the Time of Concentration and Rational Method to determine the runoff for the project shed. See Exhibit C for the Calculation of r both existing and proposed site plans.

Peak Storm Water Runoff Rate

The existing site's peak storm water runoff rate was found to be 3.12 cfs. The proposed site's peak storm water runoff rate was found to be 0.65 cfs, the reduction of the peak runoff comes from the increase in the time of concentration time gained form the 30 min it takes for the bioretention system to fill prior to releasing the runoff. See the attached calculations for both the existing and the proposed peak storm water runoff.

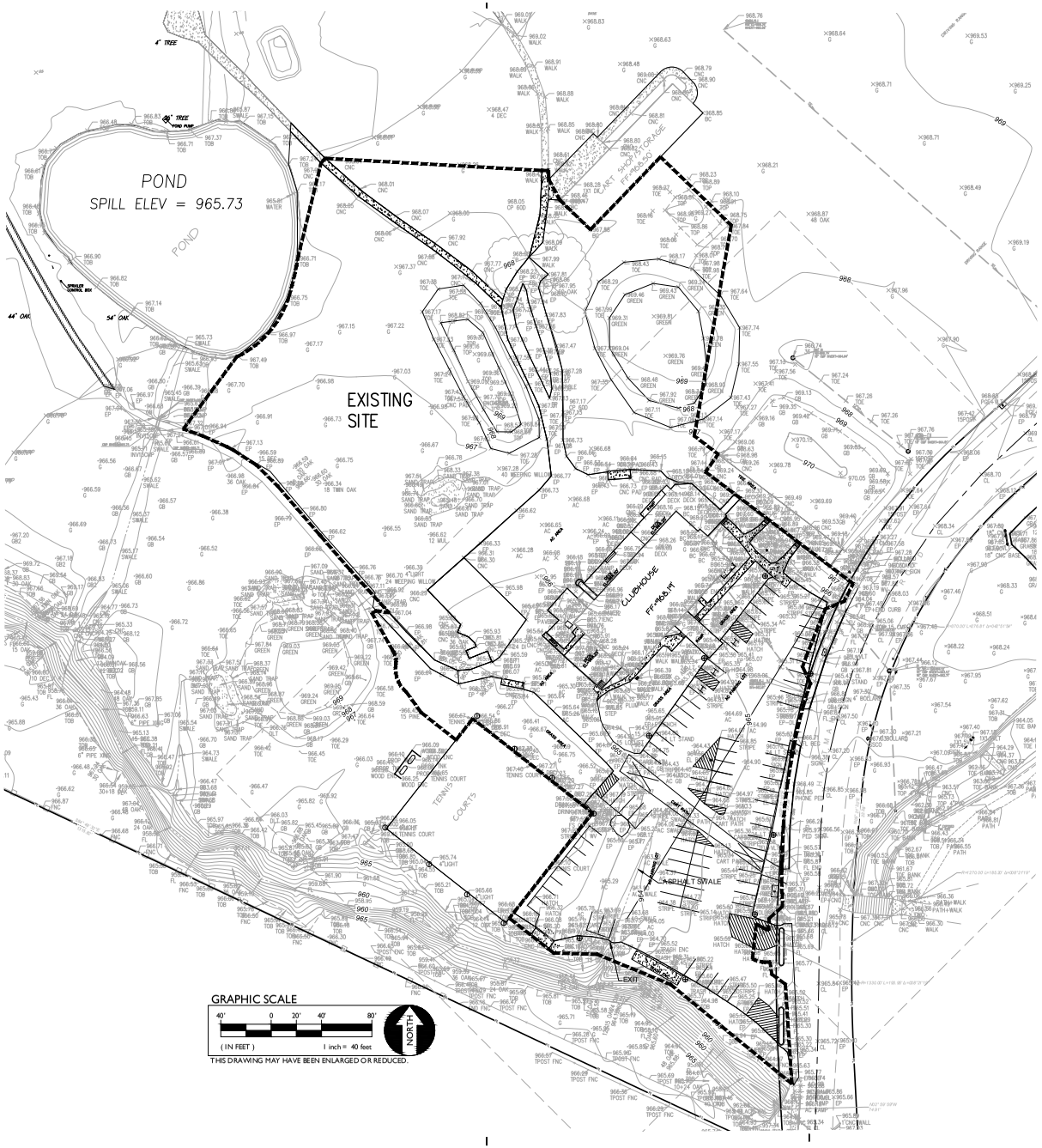
Hydraulic Analysis

Refer to the attached Exhibit D for the Drainage System Flow Calculations for the proposed storm drain system. The Calculations show the system is sized correctly. Exhibit D refers to Exhibit B to the shed areas used in the Drainage Runoff Calculations.

Overall Conclusions and Mitigation Measures

Proposed Drainage System design (Reference Exhibit B, C and D)

The project's mitigation measures for storm water quality and hydromodification are sized correctly to too meet the State requirements and the as shown by the calculations, the drainage system is adequately sized for the proposed site runoff.



TOTAL PROJECT SHED

TOTAL AREA	= 194,996	SQFT = 4.48 ACRES
IMPERVIOUS AREA	= 79,285	SQFT = 1.82 ACRES
PERVIOUS AREA	= 115,711	SQFT = 2.66 ACRES

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J. TARSHIS NO. C74696 CIVIL STATE OF CALIFORNIA 6/5/2020

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1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

HARTMAN COMPLEX

HIDDEN VALLEY LAKE ASSOCIATION

19210 HARTMANN DR.
HIDDEN VALLEY LAKE,
CA 95467

REVISIONS

DESIGN DEVELOPMENT

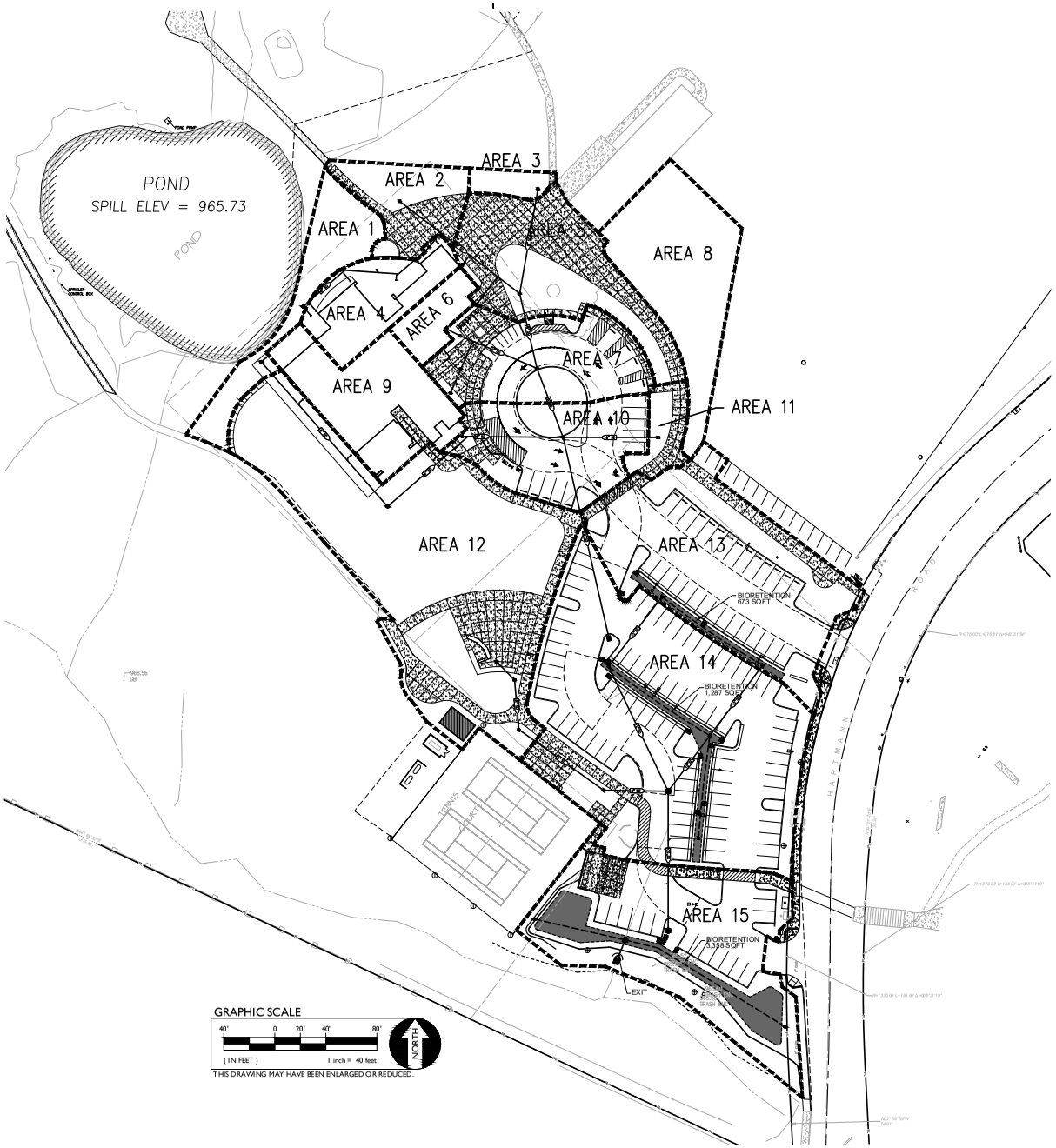
JOB NO.	131800.00
DRAWN	W+P
DATE	2.28.2020
SCALE	As indicated
FILENAME	HVL_EC_CENTRAL

www.williamspluspaddon.com

EXISTING SHED MAP

EX-A

FILENAME: I: \20-020\CIVIL\DRAINAGE\20-020-PRE SHED.DWG



TOTAL PROJECT SHED

TOTAL AREA = 194,996 SQFT = 4.48 ACRES
IMPERVIOUS AREA = 126,958 SQFT = 2.91 ACRES
PERVIOUS AREA = 68,038 SQFT = 1.57 ACRES

SHED AREAS

SHED A1
TOTAL AREA = 6,049 SQFT = 0.14 ACRES
IMPERVIOUS AREA = 235 SQFT = 0.01 ACRES
PERVIOUS AREA = 5,814 SQFT = 0.13 ACRES

SHED A2
TOTAL AREA = 5,398 SQFT = 0.12 ACRES
IMPERVIOUS AREA = 2,739 SQFT = 0.06 ACRES
PERVIOUS AREA = 2,659 SQFT = 0.06 ACRES

SHED A3
TOTAL AREA = 1,294 SQFT = 0.03 ACRES
IMPERVIOUS AREA = 54 SQFT = 0.00 ACRES
PERVIOUS AREA = 1,244 SQFT = 0.03 ACRES

SHED A4
TOTAL AREA = 6,083 SQFT = 0.14 ACRES
IMPERVIOUS AREA = 5,826 SQFT = 0.13 ACRES
PERVIOUS AREA = 257 SQFT = 0.01 ACRES

SHED A5
TOTAL AREA = 12,269 SQFT = 0.28 ACRES
IMPERVIOUS AREA = 8,079 SQFT = 0.18 ACRES
PERVIOUS AREA = 4,190 SQFT = 0.10 ACRES

SHED A6
TOTAL AREA = 2,425 SQFT = 0.05 ACRES
IMPERVIOUS AREA = 2,425 SQFT = 0.05 ACRES
PERVIOUS AREA = 0 SQFT = 0.00 ACRES

SHED A7
TOTAL AREA = 10,725 SQFT = 0.25 ACRES
IMPERVIOUS AREA = 8,506 SQFT = 0.20 ACRES
PERVIOUS AREA = 2,219 SQFT = 0.05 ACRES

SHED A8
TOTAL AREA = 11,701 SQFT = 0.27 ACRES
IMPERVIOUS AREA = 0 SQFT = 0.00 ACRES
PERVIOUS AREA = 11,701 SQFT = 0.27 ACRES

SHED A9
TOTAL AREA = 9,512 SQFT = 0.22 ACRES
IMPERVIOUS AREA = 9,512 SQFT = 0.22 ACRES
PERVIOUS AREA = 0 SQFT = 0.00 ACRES

SHED A10
TOTAL AREA = 10,030 SQFT = 0.23 ACRES
IMPERVIOUS AREA = 8,445 SQFT = 0.19 ACRES
PERVIOUS AREA = 1,585 SQFT = 0.04 ACRES

SHED A11
TOTAL AREA = 2,314 SQFT = 0.05 ACRES
IMPERVIOUS AREA = 1,264 SQFT = 0.03 ACRES
PERVIOUS AREA = 1,053 SQFT = 0.02 ACRES

SHED A12
TOTAL AREA = 36,255 SQFT = 0.83 ACRES
IMPERVIOUS AREA = 26,064 SQFT = 0.57 ACRES
PERVIOUS AREA = 10,191 SQFT = 0.26 ACRES

SHED A13
TOTAL AREA = 21,325 SQFT = 0.49 ACRES
IMPERVIOUS AREA = 14,959 SQFT = 0.34 ACRES
PERVIOUS AREA = 6,366 SQFT = 0.15 ACRES

SHED A14
TOTAL AREA = 38,168 SQFT = 0.87 ACRES
IMPERVIOUS AREA = 29,744 SQFT = 0.68 ACRES
PERVIOUS AREA = 8,424 SQFT = 0.19 ACRES

SHED A15
TOTAL AREA = 21,474 SQFT = 0.49 ACRES
IMPERVIOUS AREA = 9,106 SQFT = 0.21 ACRES
PERVIOUS AREA = 12,368 SQFT = 0.28 ACRES

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EL DORADO HILLS, CA 95762 | (916) 985-1870

HARTMAN COMPLEX

HIDDEN VALLEY LAKE ASSOCIATION

19210 HARTMANN DR.
HIDDEN VALLEY LAKE,
CA 95467

REVISIONS

DESIGN DEVELOPMENT

JOB NO.	13180.00
DRAWN	W+P
DATE	2.28.2020
SCALE	As indicated
FILENAME	HVL_EC_CENTRAL

www.williamspluspaddon.com

PROPOSED SHED MAP

EX-B

FILENAME: I:\20-020\CIVIL\DRAINAGE\20-020-POST SHED.DWG

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Peak Storm Water Runoff Rate - Rational Method

Existing Site	
JOB NAME	HVL Hartmann Complex
FILE NAME	20-020-DR1
JOB #	20-020
USED BY	GV
DATE	May 13, 2020

Lake County - Hydrology Design

Peak Storm Water Runoff - Rational Formula

$$Q = CiAK$$

Runoff Coefficient =	**C =**	0.53	
Rainfall Intensity =	**i =**	1.20	in/hr
Area =	**A=**	4.48	acres
"K" Factor =	**K =**	1.09	
Peak Runoff	**Q=**	3.12	cfs

Runoff Coefficient

$$C = \left(\frac{A_p}{A_t}\right)(C_p) + \left(\frac{A_v}{A_t}\right)(C_v)$$

Area - Paved =	**A_p =**	1.82	acres
Area - Total =	**A_t =**	4.48	acres
Area - Vegetated =	**A_v =**	2.66	acres
Coefficient - Paved =	**C_p =**	0.95	
Coefficient - Vegetated =	**C_v =**	0.25	
Runoff Coefficient =	**C =**	0.53	

Time of Concentration and Rainfall Intensity

$$Tc = 10 + Tof + Tch$$

Overfland Flow Time =	**Tof =**	6.22	min	Based on Figure 2
Channel Flow Time =	**Tch =**	1.73	min	Based on Figure 2
Time Concentration =	**Tc =**	18	min	
Rainfall Intensity (10yr) =	**i =**	1.20	in/hr	Based on Figure 1

"K" factor Value

$$K = i_y/35$$

Year Rainfall Intensity =	**i_y =**	38.00	in/yr	Based on Figure 3
"K" Factor =	**K=**	1.09		

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Peak Storm Water Runoff Rate - Rational Method

Proposed Site

JOB NAME	HVL Hartmann Complex
FILE NAME	20-020-DR1
JOB #	20-020
USED BY	GV
DATE	May 13, 2020

Lake County - Hydrology Design

Peak Storm Water Runoff - Rational Formula

$$Q = CiAK$$

Runoff Coefficient =	**C =**	0.65	
Rainfall Intensity =	**i =**	0.80	in/hr
Area =	**A=**	4.48	acres
"K" Factor =	**K =**	1.09	
Peak Runoff	**Q=**	2.52	cfs

Runoff Coefficient

$$C = \left(\frac{A_p}{A_t}\right)(C_p) + \left(\frac{A_v}{A_t}\right)(C_v)$$

Area - Paved =	A_p =	2.54	acres
Area - Total =	A_t =	4.48	acres
Area - Vegetated =	A_v =	1.94	acres
Coefficient - Paved =	C_p =	0.95	
Coefficient - Vegetated =	C_v =	0.25	
Runoff Coefficient =	**C =**	0.65	cfs

Time of Concentration and Rainfall Intensity

$$Tc = 10 + Tof + Tp + Tb$$

Overfland Flow Time =	**Tof =**	1.17	min	Based on Figure 2
Pipe Flow Time =	**Tp =**	5.00	min	Based on Figure 2
Basin fill time	**Tb =**	30.00	min	Bioretention fill time before releasing
Time Concentration =	**Tc =**	46	min	
Rainfall Intensity (10yr) =	**i =**	0.80	in/hr	Based on Figure 1

"K" factor Value

$$K = i_y/35$$

Year Rainfall Intensity =	i_y =	38.00	in/yr	Based on Figure 3
"K" Factor =	**K=**	1.09		

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Drainage System Flow Calculations - By Rational Method

Exhibit C - Post Construction

JOB NAME	HVL Hartmann Complex
FILE NAME	20-020 - DS1
JOB #	19-070
USED BY	GV
DATE	May 15, 2020

NODE		INCR.	TOTAL	PIPE DATA (by Mannings Formulas)						PIPE	PIPE	NODE RUNOFF (by Rational Method			TOTAL PIPE	SYS.
Area	Area	Area (A)	Area (ΣA)	Pipe Dia.	n	a	r	s	P	V	Q	C	i	RUN-OFF (Q)	RUN-OFF (Q)	PASS ?
FROM	TO	ac.	ac.	in.		sq.ft.	sq.ft.	ft./ft.	ft.	ft./sec.	cfs.		in/hr	cfs.	cfs.	yes/no
A4	A2	0.140	0.140	6.00	0.015	0.196	0.125	0.005	1.571	1.751	0.34	0.92	1.20	0.15	0.155	YES
A2	A5	0.124	0.264	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.61	1.20	0.09	0.245	YES
A3	A5	0.030	0.030	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.92	1.20	0.03	0.033	YES
A6	A5	0.056	0.056	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.95	1.20	0.06	0.063	YES
A5	A7	0.282	0.631	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.71	1.20	0.24	0.582	YES
A7	A10	0.246	0.877	12.00	0.015	0.785	0.250	0.004	3.142	2.326	1.83	0.80	1.20	0.24	0.819	YES
A9	A10	0.218	0.218	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.95	1.20	0.25	0.249	YES
A11	A10	0.053	0.053	8.00	0.015	0.349	0.167	0.005	2.094	2.122	0.74	0.64	1.20	0.04	0.040	YES
A10	A14	0.230	1.379	12.00	0.015	0.785	0.250	0.004	3.142	2.326	1.83	0.84	1.20	0.23	1.340	YES
A12	A14	0.832	0.832	12.00	0.015	0.785	0.250	0.004	3.142	2.326	1.83	0.75	1.20	0.75	0.753	YES
A13	A14	0.490	0.490	12.00	0.015	0.785	0.250	0.004	3.142	2.326	1.83	0.74	1.20	0.43	0.435	YES
A14	A15	0.876	3.577	15.00	0.015	1.227	0.313	0.004	3.927	2.885	3.54	0.82	1.20	0.87	3.394	YES
A15	EXT	0.493	4.070	15.00	0.015	1.227	0.313	0.005	3.927	3.226	3.96	0.54	1.20	0.32	3.716	YES

ATTACHMENT 7

TRIP GENERATION ESTIMATES

HARTMAN COMPLEX TRIP GENERATION ESTIMATES

Land Use	Size (ksf)	Average Daily Trips (ADT)		AM Peak Hour Trips (7-9am)				PM Peak Hour Trips (4-6pm)			
		Rate (trips/ksf)	Volume	Rate	Volume			Rate	Volume		
					In	Out	Total		In	Out	Total
Existing HVLA Complex	7.2	83.84	604	0.73	3	2	5	7.80	38	18	56
Reduction for HOA (50%)			*302*				*2.5*				*28*
Proposed HVLA Complex	12	83.84	1,006	0.73	6	3	9	7.80	63	31	94
Reduction for HOA (50%)			*503*				*4.5*				*47*
Net New Project Trips			**201**				**2**				**19**

Notes: Trip generation based on ITE 931 for Quality Restaurant.
ksf = thousand square feet.
Source: ITE Trip Generation Manual, 10th Edition

ATTACHMENT 8

MITIGATION MONITORING AND REPORTING PROGRAM

HARTMANN COMPLEX AT HIDDEN VALLEY LAKE PROJECT MITIGATION MONITORING AND REPORTING PROGRAM

INTRODUCTION

Section 15097 of the California Environmental Quality Act (CEQA) requires that all state and local agencies establish monitoring or reporting programs for projects approved by a public agency whenever approval involves the adoption of an Initial Study/Mitigated Negative Declaration (IS/MND). The mitigation monitoring and reporting program (MMRP) contained herein is intended to satisfy the requirements of CEQA as it relates to the Hartmann Complex at Hidden Valley Lake Project (Proposed Project).

This MMRP is intended to be used by the County of Lake (County) Staff and mitigation monitoring personnel to ensure compliance with mitigation measures during project implementation. The IS/MND for the Proposed Project presents a detailed set of mitigation measures applicable to implementation of the Proposed Project. The mitigation measures were initially developed during preparation of the IS/MND (November 2020) and, in some cases, were refined in response to comments on the IS/MND.

The intent of the MMRP is to ensure the effective implementation and enforcement of all adopted mitigation measures. The MMRP will provide for monitoring of construction activities, as necessary, and in the field identification and resolution of environmental concerns.

MITIGATION MONITORING PROGRAM

The table presented on the following pages provides the MMRP for the Proposed Project. The MMRP identifies:

1. The full text of the mitigation measure(s) applicable to each impact statement;
2. The timing of implementation of each mitigation measure; and
3. The party responsible for ensuring implementation of each mitigation measure.

Following completion of the monitoring and reporting process, the final monitoring results will then be entered into the County's Mitigation Monitoring and Reporting database.

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Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
Air Quality			
AQ-1: The following control measures shall be implemented during construction. a) During construction, emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area, shall be controlled so that dust does not remain visible in the atmosphere beyond the boundary line of the emission source. b) When wind speeds result in dust emissions crossing property lines, and despite the application of dust control measures, grading and earthmoving operations shall be suspended and inactive disturbed surface areas shall be stabilized. c) Fugitive dust generated by active operations, open storage piles, or from a disturbed surface area shall not result in such opacity as to obscure an observer's view to a degree equal to or greater than does smoke as dark or darker in shade as that designated as No. 2 on the Ringlemann Chart (or 40 percent opacity). d) All exposed soils be watered as needed to prevent dust density as described above and in order to prevent dust from visibly exiting the property. e) Any visible tracked out dirt on a paved road where vehicles enter and exit the work area must be removed at the end of the workday or at least one time per day. Removal shall be accomplished by using wet sweeping or a HEPA filter equipped vacuum device. Dirt from vehicles exiting the site shall be removed through the use of a gravel pad, a tire shaker, a wheel wash system, or a pavement extending for not less than 50 feet from the intersection with the paved public road. f) All haul trucks transporting soil, sand, or other loose material offsite shall be covered. g) All vehicle speeds on unpaved roads shall be limited to 25 mph. h) During construction the contractor shall, where feasible, utilize existing power sources (e.g., power poles) or clean fuel (i.e. gasoline, biodiesel, natural gas) generators rather than temporary diesel power generators. i) Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. Signs shall be posted in the designated queuing areas of the construction site to remind off-road equipment operators that idling time is limited to a maximum of 5 minutes.	During construction	County of Lake	
Biological Resources			
BIO-1: Should work commence during the nesting season (February 15 to September 15), a preconstruction nesting bird survey shall be conducted by a qualified biologist no more than five days prior to the start of ground disturbing activities. Areas within 500 feet of construction shall be surveyed as possible for active nests. Should an active nest be identified, a "disturbance-free" buffer shall be established by the qualified biologist based on the needs of the species identified. The buffer shall remain in place until the biologist	Prior to construction	County of Lake	

DRAFT

Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
determines that the nest is no longer active. Should construction cease for a period of five days or more, an additional pre-construction nesting bird survey shall be conducted.			
BIO-2: A pre-construction survey for FYLF shall be conducted by a qualified biologist within five days of initiating ground disturbing activities. Surveys shall cover between left and right bankfull at least 500 feet upstream and 500 feet downstream of the work area as accessible. Surveys shall extend up to 30 feet above bankfull within 100 feet of work areas when suitable, accessible habitat is present. Work within 100 feet of Coyote Creek shall occur during the dry months (July 1 through October 31) as possible. Timing shall also occur outside of the FYLF breeding season (March 1 to June 30) to the extent possible. If work must occur between October 31 and June 30, a monitor shall be present, or FYLF shall be excluded from active work areas by an exclusionary fence that is at least 24 inches tall and has a no-climb barrier installed along the top. Prior to commencement of work, a qualified biologist will inspect the fence and work area to ensure proper installation and clearance of FYLF. These measures shall be implemented in the following manner: ▪ If a work area is within 100 feet of Coyote Creek, a monitor will be present during work and will ensure that no FYLF are impacted. Observed FYLF will be avoided by construction activities by at least 50 feet unless the monitor is positioned between the FYLF and the construction activity. ▪ Work areas can alternatively be separated from Coyote Creek by exclusionary fencing as described above and no monitoring would be required. If exclusionary fencing is utilized, fencing must extend the length of the active work area plus 100 feet downstream and upstream, unless impeded by Hartmann Road. ▪ If a FYLF is found in a work area and cannot be avoided, the qualified biologist will coordinate with CDFW to develop an acceptable relocation strategy.	Prior to and during construction	County of Lake	
Cultural Resources			
CR-1: Prior to the initiation of ground-disturbing activities all construction personnel shall be trained in the protection of cultural resources, the recognition of buried cultural remains, and the notification procedures to be followed upon the discovery of archaeological materials, including Native American burials. The training shall be presented by an archaeologist who meets the Secretary of Interior's Standards for Prehistoric and Historic Archaeology and by a Native American representative and should include recognition of both prehistoric and historic resources. Personnel shall be instructed that unauthorized collection or disturbance of artifacts or other cultural materials is illegal, and that violators will be subject to prosecution under the appropriate state and federal laws. Supervisors shall also be briefed on the consequences of intentional or inadvertent damage to cultural resources.	Prior to construction	County of Lake	
CR-2: Impacts to surface and subsurface cultural resources not previously identified shall mitigated through the implementation of a monitoring program during demolition and construction grubbing, grading, and excavation. Native American consultation shall also	Prior to and during construction	County of Lake	

DRAFT

Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
be undertaken as part of this mitigation measure. The monitoring program shall include the following: ▪ Retention of a Qualified Archaeologist. A qualified archaeologist shall be retained to implement a monitoring and recovery program during all ground-disturbing activity associated with the Project, including grubbing, grading, and excavation. The qualified archaeologist shall meet the Secretary of Interior's Professional Standards for prehistoric and historic archaeology. ▪ Preconstruction Briefing. Construction personnel shall be briefed by the qualified archaeologist on procedures to be followed in the event that unique archaeological resources, historical resources, or human remains are encountered during construction. The qualified archaeologist shall be required to provide a telephone number where they can be reached by the construction contractor, as necessary. ▪ Construction Monitoring. An archaeological monitor working under the supervision of the qualified archaeologist shall observe all initial ground-disturbing activities associated with the project, including grubbing, grading, and excavations. The monitor shall be authorized to halt construction, if necessary, in the immediate area where buried cultural remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, Lake County shall provide the qualified archaeologist with the necessary resources to identify and implement a program for the appropriate disposition of those remains. ▪ Monitoring Report. A complete set of the daily monitoring logs shall be kept on site throughout the earth-moving activities and be available for inspection. The daily monitoring log shall be keyed to a location map to indicate the area monitored, date, assigned personnel, and results of monitoring, including the recovery of archaeological material, sketches of recovered materials, and associated geographic site data. Within 90 days of the completion of the archaeological monitoring, a monitoring report shall be submitted to Lake County and filed with the NWIC.			
CR-3: There is always the possibility that ground disturbing activities during construction may uncover previously unknown human remains. In the event of an accidental discovery or recognition of any human remains, PRC Section 5097.98 must be followed. If there is a discovery or recognition of human remains during project-related earthmoving activities, the following steps shall be taken: 1. There shall be no further excavation or disturbance of the specific location or any nearby area reasonably suspected to overlie adjacent human remains until the Lake County Coroner is contacted to determine if the remains are Native American and if an investigation of the cause of death is required. If the coroner determines the remains are Native American, the coroner shall contact the NAHC within 24 hours, and the NAHC shall identify the person or persons it believes to be the "most likely descendant" of the deceased Native American. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work, for means of treating	During construction	County of Lake	

DRAFT

Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
or disposing of, with appropriate dignity, the human remains, and any associated grave goods as provided in PRC Section 5097.98, or 2. Where the following conditions occur, the landowner or his/her authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity either in accordance with the recommendations of the most likely descendent or on the project area in a location not subject to further subsurface disturbance: ▪ The NAHC is unable to identify a most likely descendent or the most likely descendent failed to make a recommendation within 48 hours after being notified by the commission; ▪ The descendent identified fails to make a recommendation; or ▪ The landowner or his authorized representative rejects the recommendation of the descendent, and the mediation by the NAHC fails to provide measures acceptable to the landowner.			
CR-4: The Cultural Resources Treatment and Monitoring Agreement (Attachment 3) entered into between the Middletown Rancheria of Pomo Indians of California and the Hidden Valley Lake Association shall be adhered to in order to formalize procedures for the protection and treatment of Native American cultural resources, as defined by the agreement.	Prior to and during construction	County of Lake, Middletown Rancheria of Pomo Indians of California	
Geology and Soils			
GEO-1: In the event of any inadvertent discovery of paleontological resources, all work within a 50-foot radius of the find shall be halted and the County shall be notified. Workers shall avoid altering the materials until a professional paleontologist can evaluate the significance of the find and make recommendations to the County on the measures that shall be implemented to protect the discovered resources.	During construction	County of Lake	
Hazards and Hazardous Materials			
HAZ-1: An accidental spill prevention and response plan shall be developed which will include a list of all hazardous materials used and/or stored on the Project Site during construction activities; appropriate information about initial spill response, containment, and cleanup strategies; and a list of appropriate County contact information. The spill prevention and response plan shall be included as a component of the SWPPP described in **Mitigation Measure HYD-1**. The plan shall require containment equipment and sufficient supplies to combat spills of oil or hazardous substances shall be on site at all times during construction.	Prior to and during construction	County of Lake	
HAZ-2: Materials containing asbestos shall be properly removed in accordance with State OSHA and Federal regulations (CCR & CFR) by a licensed Asbestos Abatement Contractor certified by the State of California Division of Occupational Safety and Health, prior to any renovation and/or demolition that may disturb asbestos containing material.	During construction	County of Lake	

DRAFT

Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
Containment and disposal of asbestos-containing material shall be in accordance with the Local EPA Air Quality Management District.			
HAZ-3: During construction, staging areas, welding areas, or areas slated for development using spark-producing equipment shall be cleared of dried vegetation or other materials that could serve as fire fuel. To the extent feasible, the contractor shall keep these areas clear of combustible materials in order to maintain a fire break. Any construction equipment that normally includes a spark arrester shall be equipped with an arrester in good working order. This includes, but is not limited to, vehicles, heavy equipment, and chainsaws.	During construction	County of Lake	
Hydrology/Water Quality			
HYD-1: The Project Applicant shall obtain coverage under the NPDES Construction General Permit prior to initiation of construction activities. The SWRCB requires that construction sites have adequate control measures to reduce the discharge of sediment and other pollutants to streams to ensure compliance with Section 303 of the CWA. To comply with the NPDES permit, a Notice of Intent shall be filed with the SWRCB. A SWPPP shall be approved prior to construction. The SWPPP shall include a detailed, site-specific listing of the potential sources of stormwater pollution; pollution prevention measures (erosion and sediment control measures and measures to control non-stormwater discharges and hazardous spills) including a description of the type and location of erosion and sediment control BMPs to be implemented at the Project Site; and a BMP monitoring and maintenance schedule to determine the amount of pollutants leaving the Project Site. A copy of the SWPPP shall be kept on the Project Site. Water quality BMPs identified in the SWPPP may include, but are not limited to, the following: ▪ Areas where ground disturbance occurs shall be identified in advance of construction and limited to approved areas. ▪ Vehicular construction traffic shall be confined to the designated access routes and staging areas. ▪ Equipment maintenance and cleaning shall be confined to staging areas. No vehicle maintenance shall occur on-site during construction. ▪ Supervisory construction personnel shall be informed of environmental concerns, permit conditions, and final project specifications. Said personnel shall be responsible for instructing on-site work to meet the requirements of the SWPPP including making sure work is conducted outside of protected trees' drip lines to the extent possible. ▪ Disturbed areas shall be restored to pre-construction contours to the extent possible. ▪ Hay/straw bales and silt fences shall be used to control erosion during stormwater runoff events.	Prior to and during construction	County of Lake	

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Mitigation Measure	Timing of Action	Reviewing Party	Initial/Date Complete
▪ The highest quality soil shall be salvaged, stored, and used for native re-vegetation/seeding. ▪ Drainage gaps shall be implemented in topsoil and spoil piles to accommodate/reduce surface water runoff. ▪ Sediment control measures shall be in place prior to the onset of the rainy season and will be maintained until disturbed areas have been re-vegetated. Erosion control structures shall be in place and operational at the end of each day if work activities occur during the rainy season. ▪ Fiber rolls shall be placed along the perimeter of disturbed areas to ensure sediment and other potential contaminants of concern are not transported off-site or to open trenches. Locations of fiber rolls will be field adjusted as needed and according to the advice of the certified SWPPP inspector. ▪ Vehicles and equipment stored in the construction staging area shall be inspected regularly for signs of leakage. Leak-prone equipment will be staged over an impervious surface or other suitable means will be provided to ensure containment of any leaks. Vehicle/equipment wash waters or solvents will not be discharged to surface waters or drainage areas. ▪ During the rainy season (dates to be specified in the SWPPP), soil stockpiles and material stockpiles will be covered and protected from the wind and precipitation. Plastic sheeting will be used to cover the stockpiles and straw wattles will be placed at the base for perimeter control. ▪ Contractors shall immediately control the source of any leak and immediately contain any spill utilizing appropriate spill containment and countermeasures. Leaks and spills shall be reported to the designated representative of the lead contractor and shall be evaluated to determine if the spill or leak meets mandatory SWPPP reporting requirements. Contaminated media shall be collected and disposed of at an off-site facility approved to accept such media.			

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