

Appendix A

CalEEMod Results

CVWD NPW Connections - Riverside-Salton Sea County, Annual

**CVWD NPW Connections
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	250.00	1000sqft	5.74	250,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total sf = 50,000 linear feet by 5 feet width

Construction Phase - Grading phase used as a proxy for trenching, laying pipe.

Paving phase used for repaving surfaces

Off-road Equipment - Revised to reflect pipeline trenching typical equipment and hours/day. (6 hrs/day)

Off-road Equipment - Assumed to be used 6 hrs per day.

Trips and VMT - Assumed 4 one-way trips per day total for vendor deliveries of materials. Hauling trips calculated based on soil import/export calcs.

Grading -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403.

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	PhaseEndDate	1/24/2018	10/1/2021
tblConstructionPhase	PhaseEndDate	2/21/2018	10/1/2021
tblConstructionPhase	PhaseStartDate	12/28/2017	9/3/2018
tblConstructionPhase	PhaseStartDate	1/25/2018	9/3/2018
tblOffRoadEquipment	HorsePower	78.00	187.00
tblOffRoadEquipment	HorsePower	9.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.41
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Trenchers
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

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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					
2018	0.1655	1.8356	1.0142	1.9400e-003	0.4867	0.0888	0.5755	0.1691	0.0817	0.2508	0.0000	177.4064	177.4064	0.0519	0.0000	178.7044
2019	0.4664	5.1315	3.0232	5.8700e-003	1.0274	0.2437	1.2711	0.4625	0.2243	0.6867	0.0000	529.4377	529.4377	0.1574	0.0000	533.3718
2020	0.4424	4.8149	2.9927	5.8900e-003	1.0305	0.2258	1.2562	0.4642	0.2077	0.6719	0.0000	520.0420	520.0420	0.1578	0.0000	523.9865
2021	0.3105	3.3584	2.2059	4.4000e-003	0.8265	0.1539	0.9804	0.3535	0.1416	0.4951	0.0000	388.4448	388.4448	0.1179	0.0000	391.3930
Maximum	0.4664	5.1315	3.0232	5.8900e-003	1.0305	0.2437	1.2711	0.4642	0.2243	0.6867	0.0000	529.4377	529.4377	0.1578	0.0000	533.3718

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2.1 Overall Construction

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					
2018	0.1655	1.8356	1.0142	1.9400e-003	0.1654	0.0888	0.2543	0.0566	0.0817	0.1383	0.0000	177.4062	177.4062	0.0519	0.0000	178.7042
2019	0.4664	5.1315	3.0231	5.8700e-003	0.3479	0.2437	0.5916	0.1531	0.2243	0.3773	0.0000	529.4371	529.4371	0.1574	0.0000	533.3712
2020	0.4424	4.8148	2.9926	5.8900e-003	0.3489	0.2258	0.5747	0.1536	0.2077	0.3613	0.0000	520.0414	520.0414	0.1578	0.0000	523.9860
2021	0.3105	3.3584	2.2059	4.4000e-003	0.2801	0.1539	0.4340	0.1172	0.1416	0.2588	0.0000	388.4444	388.4444	0.1179	0.0000	391.3925
Maximum	0.4664	5.1315	3.0231	5.8900e-003	0.3489	0.2437	0.5916	0.1536	0.2243	0.3773	0.0000	529.4371	529.4371	0.1578	0.0000	533.3712

	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
Percent Reduction	0.00	0.00	0.00	0.00	66.12	0.00	54.58	66.84	0.00	46.03	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)
3	6-28-2018	9-27-2018	0.4154	0.4154
4	9-28-2018	12-27-2018	1.5121	1.5121
5	12-28-2018	3-27-2019	1.3837	1.3837
6	3-28-2019	6-27-2019	1.4091	1.4091
7	6-28-2019	9-27-2019	1.4091	1.4091
8	9-28-2019	12-27-2019	1.3938	1.3938
9	12-28-2019	3-27-2020	1.3080	1.3080
10	3-28-2020	6-27-2020	1.3184	1.3184

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11	6-28-2020	9-27-2020	1.3184	1.3184
12	9-28-2020	12-27-2020	1.3040	1.3040
13	12-28-2020	3-27-2021	1.2070	1.2070
14	3-28-2021	6-27-2021	1.2300	1.2300
15	6-28-2021	9-27-2021	1.2300	1.2300
16	9-28-2021	9-30-2021	0.0401	0.0401
		Highest	1.5121	1.5121

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/3/2018	10/1/2021	5	805	
2	Paving	Paving	9/3/2018	10/1/2021	5	805	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 402.5

Acres of Paving: 5.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Trenchers	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Cement and Mortar Mixers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40

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
Grading	6	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Grading - 2018

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					0.4724	0.0000	0.4724	0.1654	0.0000	0.1654	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1204	1.3802	0.6427	1.2900e-003		0.0639	0.0639		0.0588	0.0588	0.0000	117.7051	117.7051	0.0366	0.0000	118.6212
Total	0.1204	1.3802	0.6427	1.2900e-003	0.4724	0.0639	0.5363	0.1654	0.0588	0.2242	0.0000	117.7051	117.7051	0.0366	0.0000	118.6212

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	1.9000e-004	8.6400e-003	1.0500e-003	2.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.2865	2.2865	1.5000e-004	0.0000	2.2903
Vendor	2.9000e-004	9.6500e-003	1.9900e-003	2.0000e-005	4.3000e-004	7.0000e-005	5.0000e-004	1.2000e-004	7.0000e-005	1.9000e-004	0.0000	1.8106	1.8106	1.8000e-004	0.0000	1.8152
Worker	1.5100e-003	1.0900e-003	0.0114	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5399	2.5399	8.0000e-005	0.0000	2.5418
Total	1.9900e-003	0.0194	0.0145	7.0000e-005	7.1500e-003	1.2000e-004	7.2700e-003	1.8400e-003	1.2000e-004	1.9600e-003	0.0000	6.6371	6.6371	4.1000e-004	0.0000	6.6474

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3.2 Grading - 2018

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					0.1512	0.0000	0.1512	0.0529	0.0000	0.0529	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1204	1.3802	0.6427	1.2900e-003		0.0639	0.0639		0.0588	0.0588	0.0000	117.7050	117.7050	0.0366	0.0000	118.6211
Total	0.1204	1.3802	0.6427	1.2900e-003	0.1512	0.0639	0.2151	0.0529	0.0588	0.1117	0.0000	117.7050	117.7050	0.0366	0.0000	118.6211

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	1.9000e-004	8.6400e-003	1.0500e-003	2.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.2865	2.2865	1.5000e-004	0.0000	2.2903
Vendor	2.9000e-004	9.6500e-003	1.9900e-003	2.0000e-005	4.3000e-004	7.0000e-005	5.0000e-004	1.2000e-004	7.0000e-005	1.9000e-004	0.0000	1.8106	1.8106	1.8000e-004	0.0000	1.8152
Worker	1.5100e-003	1.0900e-003	0.0114	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5399	2.5399	8.0000e-005	0.0000	2.5418
Total	1.9900e-003	0.0194	0.0145	7.0000e-005	7.1500e-003	1.2000e-004	7.2700e-003	1.8400e-003	1.2000e-004	1.9600e-003	0.0000	6.6371	6.6371	4.1000e-004	0.0000	6.6474

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3.2 Grading - 2019

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					0.9993	0.0000	0.9993	0.4550	0.0000	0.4550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3448	3.9098	1.9151	3.9100e-003		0.1787	0.1787		0.1644	0.1644	0.0000	351.1934	351.1934	0.1111	0.0000	353.9712
Total	0.3448	3.9098	1.9151	3.9100e-003	0.9993	0.1787	1.1780	0.4550	0.1644	0.6194	0.0000	351.1934	351.1934	0.1111	0.0000	353.9712

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	5.4000e-004	0.0246	3.1000e-003	7.0000e-005	4.1600e-003	9.0000e-005	4.2400e-003	1.0700e-003	8.0000e-005	1.1500e-003	0.0000	6.8759	6.8759	4.5000e-004	0.0000	6.8871
Vendor	7.9000e-004	0.0276	5.5100e-003	6.0000e-005	1.2900e-003	1.8000e-004	1.4700e-003	3.7000e-004	1.7000e-004	5.5000e-004	0.0000	5.4586	5.4586	5.3000e-004	0.0000	5.4719
Worker	4.2000e-003	2.9200e-003	0.0310	8.0000e-005	8.5900e-003	6.0000e-005	8.6400e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.4729	7.4729	2.1000e-004	0.0000	7.4782
Total	5.5300e-003	0.0551	0.0396	2.1000e-004	0.0140	3.3000e-004	0.0144	3.7200e-003	3.0000e-004	4.0300e-003	0.0000	19.8074	19.8074	1.1900e-003	0.0000	19.8372

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3.2 Grading - 2019

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					0.3198	0.0000	0.3198	0.1456	0.0000	0.1456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3448	3.9098	1.9151	3.9100e-003		0.1787	0.1787		0.1644	0.1644	0.0000	351.1930	351.1930	0.1111	0.0000	353.9708
Total	0.3448	3.9098	1.9151	3.9100e-003	0.3198	0.1787	0.4985	0.1456	0.1644	0.3100	0.0000	351.1930	351.1930	0.1111	0.0000	353.9708

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	5.4000e-004	0.0246	3.1000e-003	7.0000e-005	4.1600e-003	9.0000e-005	4.2400e-003	1.0700e-003	8.0000e-005	1.1500e-003	0.0000	6.8759	6.8759	4.5000e-004	0.0000	6.8871
Vendor	7.9000e-004	0.0276	5.5100e-003	6.0000e-005	1.2900e-003	1.8000e-004	1.4700e-003	3.7000e-004	1.7000e-004	5.5000e-004	0.0000	5.4586	5.4586	5.3000e-004	0.0000	5.4719
Worker	4.2000e-003	2.9200e-003	0.0310	8.0000e-005	8.5900e-003	6.0000e-005	8.6400e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.4729	7.4729	2.1000e-004	0.0000	7.4782
Total	5.5300e-003	0.0551	0.0396	2.1000e-004	0.0140	3.3000e-004	0.0144	3.7200e-003	3.0000e-004	4.0300e-003	0.0000	19.8074	19.8074	1.1900e-003	0.0000	19.8372

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3.2 Grading - 2020

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					1.0023	0.0000	1.0023	0.4567	0.0000	0.4567	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3291	3.6818	1.8907	3.9200e-003		0.1666	0.1666		0.1532	0.1532	0.0000	344.8342	344.8342	0.1115	0.0000	347.6224
Total	0.3291	3.6818	1.8907	3.9200e-003	1.0023	0.1666	1.1689	0.4567	0.1532	0.6099	0.0000	344.8342	344.8342	0.1115	0.0000	347.6224

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	5.0000e-004	0.0229	2.9600e-003	7.0000e-005	4.1600e-003	7.0000e-005	4.2300e-003	1.0700e-003	7.0000e-005	1.1400e-003	0.0000	6.8320	6.8320	4.3000e-004	0.0000	6.8427
Vendor	6.7000e-004	0.0252	4.9300e-003	6.0000e-005	1.3000e-003	1.2000e-004	1.4200e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	5.4420	5.4420	5.0000e-004	0.0000	5.4545
Worker	3.9000e-003	2.6100e-003	0.0282	8.0000e-005	8.6200e-003	5.0000e-005	8.6800e-003	2.2900e-003	5.0000e-005	2.3400e-003	0.0000	7.2646	7.2646	1.9000e-004	0.0000	7.2693
Total	5.0700e-003	0.0507	0.0361	2.1000e-004	0.0141	2.4000e-004	0.0143	3.7300e-003	2.4000e-004	3.9700e-003	0.0000	19.5386	19.5386	1.1200e-003	0.0000	19.5665

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3.2 Grading - 2020

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					0.3207	0.0000	0.3207	0.1461	0.0000	0.1461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3291	3.6818	1.8907	3.9200e-003		0.1666	0.1666		0.1532	0.1532	0.0000	344.8338	344.8338	0.1115	0.0000	347.6220
Total	0.3291	3.6818	1.8907	3.9200e-003	0.3207	0.1666	0.4873	0.1461	0.1532	0.2994	0.0000	344.8338	344.8338	0.1115	0.0000	347.6220

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	5.0000e-004	0.0229	2.9600e-003	7.0000e-005	4.1600e-003	7.0000e-005	4.2300e-003	1.0700e-003	7.0000e-005	1.1400e-003	0.0000	6.8320	6.8320	4.3000e-004	0.0000	6.8427
Vendor	6.7000e-004	0.0252	4.9300e-003	6.0000e-005	1.3000e-003	1.2000e-004	1.4200e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	5.4420	5.4420	5.0000e-004	0.0000	5.4545
Worker	3.9000e-003	2.6100e-003	0.0282	8.0000e-005	8.6200e-003	5.0000e-005	8.6800e-003	2.2900e-003	5.0000e-005	2.3400e-003	0.0000	7.2646	7.2646	1.9000e-004	0.0000	7.2693
Total	5.0700e-003	0.0507	0.0361	2.1000e-004	0.0141	2.4000e-004	0.0143	3.7300e-003	2.4000e-004	3.9700e-003	0.0000	19.5386	19.5386	1.1200e-003	0.0000	19.5665

CVWD NPW Connections - Riverside-Salton Sea County, Annual

3.2 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					0.8036	0.0000	0.8036	0.3475	0.0000	0.3475	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2323	2.5789	1.3876	2.9300e-003		0.1143	0.1143		0.1052	0.1052	0.0000	257.9239	257.9239	0.0834	0.0000	260.0093
Total	0.2323	2.5789	1.3876	2.9300e-003	0.8036	0.1143	0.9179	0.3475	0.1052	0.4526	0.0000	257.9239	257.9239	0.0834	0.0000	260.0093

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	3.5000e-004	0.0157	2.1600e-003	5.0000e-005	4.0600e-003	5.0000e-005	4.1000e-003	1.0300e-003	4.0000e-005	1.0800e-003	0.0000	5.0574	5.0574	3.1000e-004	0.0000	5.0651
Vendor	4.3000e-004	0.0171	3.2800e-003	4.0000e-005	9.7000e-004	3.0000e-005	1.0000e-003	2.8000e-004	3.0000e-005	3.1000e-004	0.0000	4.0385	4.0385	3.5000e-004	0.0000	4.0473
Worker	2.7200e-003	1.7500e-003	0.0193	6.0000e-005	6.4500e-003	4.0000e-005	6.4900e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.2530	5.2530	1.3000e-004	0.0000	5.2561
Total	3.5000e-003	0.0345	0.0247	1.5000e-004	0.0115	1.2000e-004	0.0116	3.0200e-003	1.1000e-004	3.1400e-003	0.0000	14.3489	14.3489	7.9000e-004	0.0000	14.3686

CVWD NPW Connections - Riverside-Salton Sea County, Annual

3.2 Grading - 2021

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					0.2572	0.0000	0.2572	0.1112	0.0000	0.1112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2323	2.5789	1.3876	2.9300e-003		0.1143	0.1143		0.1052	0.1052	0.0000	257.9236	257.9236	0.0834	0.0000	260.0090
Total	0.2323	2.5789	1.3876	2.9300e-003	0.2572	0.1143	0.3715	0.1112	0.1052	0.2164	0.0000	257.9236	257.9236	0.0834	0.0000	260.0090

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	3.5000e-004	0.0157	2.1600e-003	5.0000e-005	4.0600e-003	5.0000e-005	4.1000e-003	1.0300e-003	4.0000e-005	1.0800e-003	0.0000	5.0574	5.0574	3.1000e-004	0.0000	5.0651
Vendor	4.3000e-004	0.0171	3.2800e-003	4.0000e-005	9.7000e-004	3.0000e-005	1.0000e-003	2.8000e-004	3.0000e-005	3.1000e-004	0.0000	4.0385	4.0385	3.5000e-004	0.0000	4.0473
Worker	2.7200e-003	1.7500e-003	0.0193	6.0000e-005	6.4500e-003	4.0000e-005	6.4900e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.2530	5.2530	1.3000e-004	0.0000	5.2561
Total	3.5000e-003	0.0345	0.0247	1.5000e-004	0.0115	1.2000e-004	0.0116	3.0200e-003	1.1000e-004	3.1400e-003	0.0000	14.3489	14.3489	7.9000e-004	0.0000	14.3686

CVWD NPW Connections - Riverside-Salton Sea County, Annual

3.3 Paving - 2018

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	0.0404	0.4166	0.3426	5.1000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	46.4271	46.4271	0.0145	0.0000	46.7885
Paving	8.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.4166	0.3426	5.1000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	46.4271	46.4271	0.0145	0.0000	46.7885

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	1.9000e-004	8.6400e-003	1.0500e-003	2.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.2865	2.2865	1.5000e-004	0.0000	2.2903
Vendor	2.9000e-004	9.6500e-003	1.9900e-003	2.0000e-005	4.3000e-004	7.0000e-005	5.0000e-004	1.2000e-004	7.0000e-005	1.9000e-004	0.0000	1.8106	1.8106	1.8000e-004	0.0000	1.8152
Worker	1.5100e-003	1.0900e-003	0.0114	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5399	2.5399	8.0000e-005	0.0000	2.5418
Total	1.9900e-003	0.0194	0.0145	7.0000e-005	7.1500e-003	1.2000e-004	7.2700e-003	1.8400e-003	1.2000e-004	1.9600e-003	0.0000	6.6371	6.6371	4.1000e-004	0.0000	6.6474

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3.3 Paving - 2018

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	0.0404	0.4166	0.3426	5.1000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	46.4271	46.4271	0.0145	0.0000	46.7884
Paving	8.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.4166	0.3426	5.1000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	46.4271	46.4271	0.0145	0.0000	46.7884

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	1.9000e-004	8.6400e-003	1.0500e-003	2.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.2865	2.2865	1.5000e-004	0.0000	2.2903
Vendor	2.9000e-004	9.6500e-003	1.9900e-003	2.0000e-005	4.3000e-004	7.0000e-005	5.0000e-004	1.2000e-004	7.0000e-005	1.9000e-004	0.0000	1.8106	1.8106	1.8000e-004	0.0000	1.8152
Worker	1.5100e-003	1.0900e-003	0.0114	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5399	2.5399	8.0000e-005	0.0000	2.5418
Total	1.9900e-003	0.0194	0.0145	7.0000e-005	7.1500e-003	1.2000e-004	7.2700e-003	1.8400e-003	1.2000e-004	1.9600e-003	0.0000	6.6371	6.6371	4.1000e-004	0.0000	6.6474

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3.3 Paving - 2019

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	0.1081	1.1116	1.0288	1.5400e-003		0.0644	0.0644		0.0592	0.0592	0.0000	138.6296	138.6296	0.0439	0.0000	139.7261
Paving	2.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1106	1.1116	1.0288	1.5400e-003		0.0644	0.0644		0.0592	0.0592	0.0000	138.6296	138.6296	0.0439	0.0000	139.7261

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	5.4000e-004	0.0246	3.1000e-003	7.0000e-005	4.1600e-003	9.0000e-005	4.2400e-003	1.0700e-003	8.0000e-005	1.1500e-003	0.0000	6.8759	6.8759	4.5000e-004	0.0000	6.8871
Vendor	7.9000e-004	0.0276	5.5100e-003	6.0000e-005	1.2900e-003	1.8000e-004	1.4700e-003	3.7000e-004	1.7000e-004	5.5000e-004	0.0000	5.4586	5.4586	5.3000e-004	0.0000	5.4719
Worker	4.2000e-003	2.9200e-003	0.0310	8.0000e-005	8.5900e-003	6.0000e-005	8.6400e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.4729	7.4729	2.1000e-004	0.0000	7.4782
Total	5.5300e-003	0.0551	0.0396	2.1000e-004	0.0140	3.3000e-004	0.0144	3.7200e-003	3.0000e-004	4.0300e-003	0.0000	19.8074	19.8074	1.1900e-003	0.0000	19.8372

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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	0.1081	1.1116	1.0288	1.5400e-003		0.0644	0.0644		0.0592	0.0592	0.0000	138.6294	138.6294	0.0439	0.0000	139.7260
Paving	2.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1106	1.1116	1.0288	1.5400e-003		0.0644	0.0644		0.0592	0.0592	0.0000	138.6294	138.6294	0.0439	0.0000	139.7260

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	5.4000e-004	0.0246	3.1000e-003	7.0000e-005	4.1600e-003	9.0000e-005	4.2400e-003	1.0700e-003	8.0000e-005	1.1500e-003	0.0000	6.8759	6.8759	4.5000e-004	0.0000	6.8871
Vendor	7.9000e-004	0.0276	5.5100e-003	6.0000e-005	1.2900e-003	1.8000e-004	1.4700e-003	3.7000e-004	1.7000e-004	5.5000e-004	0.0000	5.4586	5.4586	5.3000e-004	0.0000	5.4719
Worker	4.2000e-003	2.9200e-003	0.0310	8.0000e-005	8.5900e-003	6.0000e-005	8.6400e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.4729	7.4729	2.1000e-004	0.0000	7.4782
Total	5.5300e-003	0.0551	0.0396	2.1000e-004	0.0140	3.3000e-004	0.0144	3.7200e-003	3.0000e-004	4.0300e-003	0.0000	19.8074	19.8074	1.1900e-003	0.0000	19.8372

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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	0.1007	1.0318	1.0298	1.5500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	136.1306	136.1306	0.0440	0.0000	137.2313
Paving	2.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1032	1.0318	1.0298	1.5500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	136.1306	136.1306	0.0440	0.0000	137.2313

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	5.0000e-004	0.0229	2.9600e-003	7.0000e-005	4.1600e-003	7.0000e-005	4.2300e-003	1.0700e-003	7.0000e-005	1.1400e-003	0.0000	6.8320	6.8320	4.3000e-004	0.0000	6.8427
Vendor	6.7000e-004	0.0252	4.9300e-003	6.0000e-005	1.3000e-003	1.2000e-004	1.4200e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	5.4420	5.4420	5.0000e-004	0.0000	5.4545
Worker	3.9000e-003	2.6100e-003	0.0282	8.0000e-005	8.6200e-003	5.0000e-005	8.6800e-003	2.2900e-003	5.0000e-005	2.3400e-003	0.0000	7.2646	7.2646	1.9000e-004	0.0000	7.2693
Total	5.0700e-003	0.0507	0.0361	2.1000e-004	0.0141	2.4000e-004	0.0143	3.7300e-003	2.4000e-004	3.9700e-003	0.0000	19.5386	19.5386	1.1200e-003	0.0000	19.5665

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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	0.1007	1.0318	1.0298	1.5500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	136.1304	136.1304	0.0440	0.0000	137.2311
Paving	2.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1032	1.0318	1.0298	1.5500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	136.1304	136.1304	0.0440	0.0000	137.2311

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	5.0000e-004	0.0229	2.9600e-003	7.0000e-005	4.1600e-003	7.0000e-005	4.2300e-003	1.0700e-003	7.0000e-005	1.1400e-003	0.0000	6.8320	6.8320	4.3000e-004	0.0000	6.8427
Vendor	6.7000e-004	0.0252	4.9300e-003	6.0000e-005	1.3000e-003	1.2000e-004	1.4200e-003	3.7000e-004	1.2000e-004	4.9000e-004	0.0000	5.4420	5.4420	5.0000e-004	0.0000	5.4545
Worker	3.9000e-003	2.6100e-003	0.0282	8.0000e-005	8.6200e-003	5.0000e-005	8.6800e-003	2.2900e-003	5.0000e-005	2.3400e-003	0.0000	7.2646	7.2646	1.9000e-004	0.0000	7.2693
Total	5.0700e-003	0.0507	0.0361	2.1000e-004	0.0141	2.4000e-004	0.0143	3.7300e-003	2.4000e-004	3.9700e-003	0.0000	19.5386	19.5386	1.1200e-003	0.0000	19.5665

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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	0.0694	0.7105	0.7689	1.1600e-003		0.0393	0.0393		0.0362	0.0362	0.0000	101.8232	101.8232	0.0329	0.0000	102.6465
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0712	0.7105	0.7689	1.1600e-003		0.0393	0.0393		0.0362	0.0362	0.0000	101.8232	101.8232	0.0329	0.0000	102.6465

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	3.5000e-004	0.0157	2.1600e-003	5.0000e-005	4.0600e-003	5.0000e-005	4.1000e-003	1.0300e-003	4.0000e-005	1.0800e-003	0.0000	5.0574	5.0574	3.1000e-004	0.0000	5.0651
Vendor	4.3000e-004	0.0171	3.2800e-003	4.0000e-005	9.7000e-004	3.0000e-005	1.0000e-003	2.8000e-004	3.0000e-005	3.1000e-004	0.0000	4.0385	4.0385	3.5000e-004	0.0000	4.0473
Worker	2.7200e-003	1.7500e-003	0.0193	6.0000e-005	6.4500e-003	4.0000e-005	6.4900e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.2530	5.2530	1.3000e-004	0.0000	5.2561
Total	3.5000e-003	0.0345	0.0247	1.5000e-004	0.0115	1.2000e-004	0.0116	3.0200e-003	1.1000e-004	3.1400e-003	0.0000	14.3489	14.3489	7.9000e-004	0.0000	14.3686

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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	0.0694	0.7105	0.7689	1.1600e-003		0.0393	0.0393		0.0362	0.0362	0.0000	101.8231	101.8231	0.0329	0.0000	102.6464
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0712	0.7105	0.7689	1.1600e-003		0.0393	0.0393		0.0362	0.0362	0.0000	101.8231	101.8231	0.0329	0.0000	102.6464

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	3.5000e-004	0.0157	2.1600e-003	5.0000e-005	4.0600e-003	5.0000e-005	4.1000e-003	1.0300e-003	4.0000e-005	1.0800e-003	0.0000	5.0574	5.0574	3.1000e-004	0.0000	5.0651
Vendor	4.3000e-004	0.0171	3.2800e-003	4.0000e-005	9.7000e-004	3.0000e-005	1.0000e-003	2.8000e-004	3.0000e-005	3.1000e-004	0.0000	4.0385	4.0385	3.5000e-004	0.0000	4.0473
Worker	2.7200e-003	1.7500e-003	0.0193	6.0000e-005	6.4500e-003	4.0000e-005	6.4900e-003	1.7100e-003	4.0000e-005	1.7500e-003	0.0000	5.2530	5.2530	1.3000e-004	0.0000	5.2561
Total	3.5000e-003	0.0345	0.0247	1.5000e-004	0.0115	1.2000e-004	0.0116	3.0200e-003	1.1000e-004	3.1400e-003	0.0000	14.3489	14.3489	7.9000e-004	0.0000	14.3686

CVWD NPW Connections - Riverside-Salton Sea County, Summer

CVWD NPW Connections
Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	250.00	1000sqft	5.74	250,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total sf = 50,000 linear feet by 5 feet width

Construction Phase - Grading phase used as a proxy for trenching, laying pipe.

Paving phase used for repaving surfaces

Off-road Equipment - Revised to reflect pipeline trenching typical equipment and hours/day. (6 hrs/day)

Off-road Equipment - Assumed to be used 6 hrs per day.

Trips and VMT - Assumed 4 one-way trips per day total for vendor deliveries of materials. Hauling trips calculated based on soil import/export calcs.

Grading -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403.

CVWD NPW Connections - Riverside-Salton Sea County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	PhaseEndDate	1/24/2018	10/1/2021
tblConstructionPhase	PhaseEndDate	2/21/2018	10/1/2021
tblConstructionPhase	PhaseStartDate	12/28/2017	9/3/2018
tblConstructionPhase	PhaseStartDate	1/25/2018	9/3/2018
tblOffRoadEquipment	HorsePower	78.00	187.00
tblOffRoadEquipment	HorsePower	9.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.41
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Trenchers
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

CVWD NPW Connections - Riverside-Salton Sea County, Summer

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****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	lb/day										lb/day					
2018	3.8575	42.6687	23.6590	0.0452	6.8905	2.0653	8.9558	3.4547	1.9003	5.3550	0.0000	4,562.0339	4,562.0339	1.3307	0.0000	4,595.3007
2019	3.5817	39.3053	23.2314	0.0452	6.7711	1.8677	8.6388	3.4254	1.7184	5.1438	0.0000	4,485.9250	4,485.9250	1.3289	0.0000	4,519.1463
2020	3.3842	36.7412	22.9045	0.0451	6.7708	1.7233	8.4941	3.4253	1.5856	5.0109	0.0000	4,389.4497	4,389.4497	1.3273	0.0000	4,422.6326
2021	3.1752	34.2584	22.5646	0.0450	6.7905	1.5700	8.3606	3.4302	1.4445	4.8747	0.0000	4,382.3920	4,382.3920	1.3261	0.0000	4,415.5440
Maximum	3.8575	42.6687	23.6590	0.0452	6.8905	2.0653	8.9558	3.4547	1.9003	5.3550	0.0000	4,562.0339	4,562.0339	1.3307	0.0000	4,595.3007

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/3/2018	10/1/2021	5	805	
2	Paving	Paving	9/3/2018	10/1/2021	5	805	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 402.5

Acres of Paving: 5.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

CVWD NPW Connections - Riverside-Salton Sea County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Trenchers	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Cement and Mortar Mixers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40

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
Grading	6	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2018

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7990	32.0985	14.9467	0.0300		1.4867	1.4867		1.3678	1.3678		3,017.3883	3,017.3883	0.9394		3,040.8721
Total	2.7990	32.0985	14.9467	0.0300	6.5523	1.4867	8.0391	3.3675	1.3678	4.7353		3,017.3883	3,017.3883	0.9394		3,040.8721

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	lb/day										lb/day					
Hauling	4.2400e-003	0.1958	0.0227	5.6000e-004	0.0921	7.3000e-004	0.0928	0.0230	7.0000e-004	0.0237		59.2292	59.2292	3.7400e-003		59.3227
Vendor	6.5700e-003	0.2220	0.0429	4.5000e-004	0.0100	1.6200e-003	0.0117	2.8900e-003	1.5500e-003	4.4400e-003		47.2890	47.2890	4.4700e-003		47.4007
Worker	0.0397	0.0237	0.3066	7.1000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		70.7216	70.7216	2.1900e-003		70.7764
Total	0.0505	0.4415	0.3722	1.7200e-003	0.1691	2.7800e-003	0.1718	0.0436	2.6500e-003	0.0463		177.2397	177.2397	0.0104		177.4997

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2018

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	lb/day										lb/day						
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000				0.0000
Off-Road	2.7990	32.0985	14.9467	0.0300		1.4867	1.4867		1.3678	1.3678	0.0000	3,017.3883	3,017.3883	0.9394			3,040.8721
Total	2.7990	32.0985	14.9467	0.0300	2.0968	1.4867	3.5835	1.0776	1.3678	2.4454	0.0000	3,017.3883	3,017.3883	0.9394			3,040.8721

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	lb/day										lb/day						
Hauling	4.2400e-003	0.1958	0.0227	5.6000e-004	0.0921	7.3000e-004	0.0928	0.0230	7.0000e-004	0.0237		59.2292	59.2292	3.7400e-003			59.3227
Vendor	6.5700e-003	0.2220	0.0429	4.5000e-004	0.0100	1.6200e-003	0.0117	2.8900e-003	1.5500e-003	4.4400e-003		47.2890	47.2890	4.4700e-003			47.4007
Worker	0.0397	0.0237	0.3066	7.1000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		70.7216	70.7216	2.1900e-003			70.7764
Total	0.0505	0.4415	0.3722	1.7200e-003	0.1691	2.7800e-003	0.1718	0.0436	2.6500e-003	0.0463		177.2397	177.2397	0.0104			177.4997

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2019

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6418	29.9600	14.6752	0.0300		1.3694	1.3694		1.2598	1.2598		2,966.4709	2,966.4709	0.9386		2,989.9349
Total	2.6418	29.9600	14.6752	0.0300	6.5523	1.3694	7.9217	3.3675	1.2598	4.6273		2,966.4709	2,966.4709	0.9386		2,989.9349

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	lb/day										lb/day					
Hauling	4.0400e-003	0.1837	0.0221	5.5000e-004	0.0324	6.6000e-004	0.0331	8.3100e-003	6.4000e-004	8.9500e-003		58.6906	58.6906	3.6500e-003		58.7818
Vendor	5.9500e-003	0.2091	0.0389	4.5000e-004	0.0100	1.3700e-003	0.0114	2.8900e-003	1.3100e-003	4.2000e-003		46.9780	46.9780	4.3000e-003		47.0855
Worker	0.0363	0.0210	0.2753	6.9000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		68.5682	68.5682	1.9600e-003		68.6171
Total	0.0463	0.4138	0.3364	1.6900e-003	0.1094	2.4600e-003	0.1118	0.0290	2.3400e-003	0.0313		174.2368	174.2368	9.9100e-003		174.4843

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2019

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.6418	29.9600	14.6752	0.0300		1.3694	1.3694		1.2598	1.2598	0.0000	2,966.4709	2,966.4709	0.9386		2,989.9349
Total	2.6418	29.9600	14.6752	0.0300	2.0968	1.3694	3.4661	1.0776	1.2598	2.3374	0.0000	2,966.4709	2,966.4709	0.9386		2,989.9349

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	lb/day										lb/day					
Hauling	4.0400e-003	0.1837	0.0221	5.5000e-004	0.0324	6.6000e-004	0.0331	8.3100e-003	6.4000e-004	8.9500e-003		58.6906	58.6906	3.6500e-003		58.7818
Vendor	5.9500e-003	0.2091	0.0389	4.5000e-004	0.0100	1.3700e-003	0.0114	2.8900e-003	1.3100e-003	4.2000e-003		46.9780	46.9780	4.3000e-003		47.0855
Worker	0.0363	0.0210	0.2753	6.9000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		68.5682	68.5682	1.9600e-003		68.6171
Total	0.0463	0.4138	0.3364	1.6900e-003	0.1094	2.4600e-003	0.1118	0.0290	2.3400e-003	0.0313		174.2368	174.2368	9.9100e-003		174.4843

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2020

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.5121	28.1054	14.4326	0.0300		1.2714	1.2714		1.1697	1.1697		2,901.6386	2,901.6386	0.9385		2,925.0998
Total	2.5121	28.1054	14.4326	0.0300	6.5523	1.2714	7.8237	3.3675	1.1697	4.5372		2,901.6386	2,901.6386	0.9385		2,925.0998

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	lb/day										lb/day					
Hauling	3.7000e-003	0.1703	0.0210	5.5000e-004	0.0323	5.4000e-004	0.0328	8.2900e-003	5.2000e-004	8.8100e-003		58.0990	58.0990	3.4600e-003		58.1856
Vendor	5.0300e-003	0.1909	0.0346	4.4000e-004	0.0100	9.3000e-004	0.0110	2.8900e-003	8.9000e-004	3.7800e-003		46.6611	46.6611	4.0000e-003		46.7612
Worker	0.0335	0.0187	0.2498	6.7000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		66.4039	66.4039	1.7300e-003		66.4472
Total	0.0423	0.3799	0.3053	1.6600e-003	0.1093	1.8900e-003	0.1111	0.0289	1.7900e-003	0.0307		171.1640	171.1640	9.1900e-003		171.3940

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2020

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.5121	28.1054	14.4326	0.0300		1.2714	1.2714		1.1697	1.1697	0.0000	2,901.6385	2,901.6385	0.9385		2,925.0998
Total	2.5121	28.1054	14.4326	0.0300	2.0968	1.2714	3.3681	1.0776	1.1697	2.2473	0.0000	2,901.6385	2,901.6385	0.9385		2,925.0998

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	lb/day										lb/day					
Hauling	3.7000e-003	0.1703	0.0210	5.5000e-004	0.0323	5.4000e-004	0.0328	8.2900e-003	5.2000e-004	8.8100e-003		58.0990	58.0990	3.4600e-003		58.1856
Vendor	5.0300e-003	0.1909	0.0346	4.4000e-004	0.0100	9.3000e-004	0.0110	2.8900e-003	8.9000e-004	3.7800e-003		46.6611	46.6611	4.0000e-003		46.7612
Worker	0.0335	0.0187	0.2498	6.7000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		66.4039	66.4039	1.7300e-003		66.4472
Total	0.0423	0.3799	0.3053	1.6600e-003	0.1093	1.8900e-003	0.1111	0.0289	1.7900e-003	0.0307		171.1640	171.1640	9.1900e-003		171.3940

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3708	26.3151	14.1590	0.0299		1.1665	1.1665		1.0732	1.0732		2,901.1470	2,901.1470	0.9383		2,924.6042
Total	2.3708	26.3151	14.1590	0.0299	6.5523	1.1665	7.7189	3.3675	1.0732	4.4407		2,901.1470	2,901.1470	0.9383		2,924.6042

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	lb/day										lb/day					
Hauling	3.5000e-003	0.1563	0.0206	5.4000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		57.4926	57.4926	3.3400e-003		57.5760
Vendor	4.2800e-003	0.1736	0.0306	4.4000e-004	0.0100	2.8000e-004	0.0103	2.8900e-003	2.7000e-004	3.1600e-003		46.2885	46.2885	3.7900e-003		46.3832
Worker	0.0312	0.0167	0.2289	6.4000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		64.1839	64.1839	1.5600e-003		64.2229
Total	0.0390	0.3467	0.2800	1.6200e-003	0.1191	1.1700e-003	0.1203	0.0313	1.1000e-003	0.0325		167.9649	167.9649	8.6900e-003		168.1821

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.2 Grading - 2021

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.3708	26.3151	14.1590	0.0299		1.1665	1.1665		1.0732	1.0732	0.0000	2,901.1470	2,901.1470	0.9383		2,924.6042
Total	2.3708	26.3151	14.1590	0.0299	2.0968	1.1665	3.2633	1.0776	1.0732	2.1508	0.0000	2,901.1470	2,901.1470	0.9383		2,924.6042

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	lb/day										lb/day					
Hauling	3.5000e-003	0.1563	0.0206	5.4000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		57.4926	57.4926	3.3400e-003		57.5760
Vendor	4.2800e-003	0.1736	0.0306	4.4000e-004	0.0100	2.8000e-004	0.0103	2.8900e-003	2.7000e-004	3.1600e-003		46.2885	46.2885	3.7900e-003		46.3832
Worker	0.0312	0.0167	0.2289	6.4000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		64.1839	64.1839	1.5600e-003		64.2229
Total	0.0390	0.3467	0.2800	1.6200e-003	0.1191	1.1700e-003	0.1203	0.0313	1.1000e-003	0.0325		167.9649	167.9649	8.6900e-003		168.1821

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2018

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	lb/day										lb/day					
Off-Road	0.9388	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272		1,190.166 2	1,190.166 2	0.3705		1,199.429 1
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9575	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272		1,190.166 2	1,190.166 2	0.3705		1,199.429 1

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	lb/day										lb/day					
Hauling	4.2400e-003	0.1958	0.0227	5.6000e-004	0.0921	7.3000e-004	0.0928	0.0230	7.0000e-004	0.0237		59.2292	59.2292	3.7400e-003		59.3227
Vendor	6.5700e-003	0.2220	0.0429	4.5000e-004	0.0100	1.6200e-003	0.0117	2.8900e-003	1.5500e-003	4.4400e-003		47.2890	47.2890	4.4700e-003		47.4007
Worker	0.0397	0.0237	0.3066	7.1000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		70.7216	70.7216	2.1900e-003		70.7764
Total	0.0505	0.4415	0.3722	1.7200e-003	0.1691	2.7800e-003	0.1718	0.0436	2.6500e-003	0.0463		177.2397	177.2397	0.0104		177.4997

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2018

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	lb/day										lb/day					
Off-Road	0.9388	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272	0.0000	1,190.166 2	1,190.166 2	0.3705		1,199.429 1
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9575	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272	0.0000	1,190.166 2	1,190.166 2	0.3705		1,199.429 1

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	lb/day										lb/day					
Hauling	4.2400e-003	0.1958	0.0227	5.6000e-004	0.0921	7.3000e-004	0.0928	0.0230	7.0000e-004	0.0237		59.2292	59.2292	3.7400e-003		59.3227
Vendor	6.5700e-003	0.2220	0.0429	4.5000e-004	0.0100	1.6200e-003	0.0117	2.8900e-003	1.5500e-003	4.4400e-003		47.2890	47.2890	4.4700e-003		47.4007
Worker	0.0397	0.0237	0.3066	7.1000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		70.7216	70.7216	2.1900e-003		70.7764
Total	0.0505	0.4415	0.3722	1.7200e-003	0.1691	2.7800e-003	0.1718	0.0436	2.6500e-003	0.0463		177.2397	177.2397	0.0104		177.4997

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2019

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	lb/day										lb/day					
Off-Road	0.8286	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539		1,170.9806	1,170.9806	0.3705		1,180.2428
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8473	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539		1,170.9806	1,170.9806	0.3705		1,180.2428

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	lb/day										lb/day					
Hauling	4.0400e-003	0.1837	0.0221	5.5000e-004	0.0324	6.6000e-004	0.0331	8.3100e-003	6.4000e-004	8.9500e-003		58.6906	58.6906	3.6500e-003		58.7818
Vendor	5.9500e-003	0.2091	0.0389	4.5000e-004	0.0100	1.3700e-003	0.0114	2.8900e-003	1.3100e-003	4.2000e-003		46.9780	46.9780	4.3000e-003		47.0855
Worker	0.0363	0.0210	0.2753	6.9000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		68.5682	68.5682	1.9600e-003		68.6171
Total	0.0463	0.4138	0.3364	1.6900e-003	0.1094	2.4600e-003	0.1118	0.0290	2.3400e-003	0.0313		174.2368	174.2368	9.9100e-003		174.4843

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2019

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	lb/day										lb/day					
Off-Road	0.8286	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539	0.0000	1,170.9806	1,170.9806	0.3705		1,180.2428
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8473	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539	0.0000	1,170.9806	1,170.9806	0.3705		1,180.2428

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	lb/day										lb/day					
Hauling	4.0400e-003	0.1837	0.0221	5.5000e-004	0.0324	6.6000e-004	0.0331	8.3100e-003	6.4000e-004	8.9500e-003		58.6906	58.6906	3.6500e-003		58.7818
Vendor	5.9500e-003	0.2091	0.0389	4.5000e-004	0.0100	1.3700e-003	0.0114	2.8900e-003	1.3100e-003	4.2000e-003		46.9780	46.9780	4.3000e-003		47.0855
Worker	0.0363	0.0210	0.2753	6.9000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		68.5682	68.5682	1.9600e-003		68.6171
Total	0.0463	0.4138	0.3364	1.6900e-003	0.1094	2.4600e-003	0.1118	0.0290	2.3400e-003	0.0313		174.2368	174.2368	9.9100e-003		174.4843

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2020

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	lb/day										lb/day					
Off-Road	0.7689	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123		1,145.4831	1,145.4831	0.3705		1,154.7449
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7876	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123		1,145.4831	1,145.4831	0.3705		1,154.7449

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	lb/day										lb/day					
Hauling	3.7000e-003	0.1703	0.0210	5.5000e-004	0.0323	5.4000e-004	0.0328	8.2900e-003	5.2000e-004	8.8100e-003		58.0990	58.0990	3.4600e-003		58.1856
Vendor	5.0300e-003	0.1909	0.0346	4.4000e-004	0.0100	9.3000e-004	0.0110	2.8900e-003	8.9000e-004	3.7800e-003		46.6611	46.6611	4.0000e-003		46.7612
Worker	0.0335	0.0187	0.2498	6.7000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		66.4039	66.4039	1.7300e-003		66.4472
Total	0.0423	0.3799	0.3053	1.6600e-003	0.1093	1.8900e-003	0.1111	0.0289	1.7900e-003	0.0307		171.1640	171.1640	9.1900e-003		171.3940

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2020

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	lb/day										lb/day					
Off-Road	0.7689	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123	0.0000	1,145.4831	1,145.4831	0.3705		1,154.7449
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7876	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123	0.0000	1,145.4831	1,145.4831	0.3705		1,154.7449

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	lb/day										lb/day					
Hauling	3.7000e-003	0.1703	0.0210	5.5000e-004	0.0323	5.4000e-004	0.0328	8.2900e-003	5.2000e-004	8.8100e-003		58.0990	58.0990	3.4600e-003		58.1856
Vendor	5.0300e-003	0.1909	0.0346	4.4000e-004	0.0100	9.3000e-004	0.0110	2.8900e-003	8.9000e-004	3.7800e-003		46.6611	46.6611	4.0000e-003		46.7612
Worker	0.0335	0.0187	0.2498	6.7000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		66.4039	66.4039	1.7300e-003		66.4472
Total	0.0423	0.3799	0.3053	1.6600e-003	0.1093	1.8900e-003	0.1111	0.0289	1.7900e-003	0.0307		171.1640	171.1640	9.1900e-003		171.3940

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 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	lb/day										lb/day					
Off-Road	0.7077	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691		1,145.315 2	1,145.315 2	0.3704		1,154.575 6
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7264	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691		1,145.315 2	1,145.315 2	0.3704		1,154.575 6

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	lb/day										lb/day					
Hauling	3.5000e-003	0.1563	0.0206	5.4000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		57.4926	57.4926	3.3400e-003		57.5760
Vendor	4.2800e-003	0.1736	0.0306	4.4000e-004	0.0100	2.8000e-004	0.0103	2.8900e-003	2.7000e-004	3.1600e-003		46.2885	46.2885	3.7900e-003		46.3832
Worker	0.0312	0.0167	0.2289	6.4000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		64.1839	64.1839	1.5600e-003		64.2229
Total	0.0390	0.3467	0.2800	1.6200e-003	0.1191	1.1700e-003	0.1203	0.0313	1.1000e-003	0.0325		167.9649	167.9649	8.6900e-003		168.1821

CVWD NPW Connections - Riverside-Salton Sea County, Summer

3.3 Paving - 2021

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	lb/day										lb/day					
Off-Road	0.7077	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691	0.0000	1,145.315 2	1,145.315 2	0.3704		1,154.575 6
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7264	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691	0.0000	1,145.315 2	1,145.315 2	0.3704		1,154.575 6

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	lb/day										lb/day					
Hauling	3.5000e-003	0.1563	0.0206	5.4000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		57.4926	57.4926	3.3400e-003		57.5760
Vendor	4.2800e-003	0.1736	0.0306	4.4000e-004	0.0100	2.8000e-004	0.0103	2.8900e-003	2.7000e-004	3.1600e-003		46.2885	46.2885	3.7900e-003		46.3832
Worker	0.0312	0.0167	0.2289	6.4000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		64.1839	64.1839	1.5600e-003		64.2229
Total	0.0390	0.3467	0.2800	1.6200e-003	0.1191	1.1700e-003	0.1203	0.0313	1.1000e-003	0.0325		167.9649	167.9649	8.6900e-003		168.1821

CVWD NPW Connections - Riverside-Salton Sea County, Winter

CVWD NPW Connections
Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	250.00	1000sqft	5.74	250,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total sf = 50,000 linear feet by 5 feet width

Construction Phase - Grading phase used as a proxy for trenching, laying pipe.

Paving phase used for repaving surfaces

Off-road Equipment - Revised to reflect pipeline trenching typical equipment and hours/day. (6 hrs/day)

Off-road Equipment - Assumed to be used 6 hrs per day.

Trips and VMT - Assumed 4 one-way trips per day total for vendor deliveries of materials. Hauling trips calculated based on soil import/export calcs.

Grading -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQMD Rule 403.

CVWD NPW Connections - Riverside-Salton Sea County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	68
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	68
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	NumDays	20.00	805.00
tblConstructionPhase	PhaseEndDate	1/24/2018	10/1/2021
tblConstructionPhase	PhaseEndDate	2/21/2018	10/1/2021
tblConstructionPhase	PhaseStartDate	12/28/2017	9/3/2018
tblConstructionPhase	PhaseStartDate	1/25/2018	9/3/2018
tblOffRoadEquipment	HorsePower	78.00	187.00
tblOffRoadEquipment	HorsePower	9.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.41
tblOffRoadEquipment	LoadFactor	0.56	0.38
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Trenchers
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	HaulingTripNumber	0.00	579.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

CVWD NPW Connections - Riverside-Salton Sea County, Winter

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2018	3.8549	42.6722	23.5736	0.0450	6.8905	2.0654	8.9559	3.4547	1.9004	5.3551	0.0000	4,540.4879	4,540.4879	1.3318	0.0000	4,573.7843
2019	3.5795	39.3075	23.1548	0.0450	6.7711	1.8678	8.6388	3.4254	1.7185	5.1439	0.0000	4,464.8279	4,464.8279	1.3300	0.0000	4,498.0791
2020	3.3822	36.7417	22.8347	0.0449	6.7708	1.7234	8.4942	3.4253	1.5856	5.0109	0.0000	4,368.8002	4,368.8002	1.3285	0.0000	4,402.0121
2021	3.1735	34.2573	22.5002	0.0448	6.7905	1.5701	8.3606	3.4302	1.4445	4.8747	0.0000	4,362.2450	4,362.2450	1.3272	0.0000	4,395.4255
Maximum	3.8549	42.6722	23.5736	0.0450	6.8905	2.0654	8.9559	3.4547	1.9004	5.3551	0.0000	4,540.4879	4,540.4879	1.3318	0.0000	4,573.7843

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/3/2018	10/1/2021	5	805	
2	Paving	Paving	9/3/2018	10/1/2021	5	805	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 402.5

Acres of Paving: 5.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

CVWD NPW Connections - Riverside-Salton Sea County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Trenchers	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Cement and Mortar Mixers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40

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
Grading	6	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	8.00	2.00	579.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2018

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7990	32.0985	14.9467	0.0300		1.4867	1.4867		1.3678	1.3678		3,017.3883	3,017.3883	0.9394		3,040.8721
Total	2.7990	32.0985	14.9467	0.0300	6.5523	1.4867	8.0391	3.3675	1.3678	4.7353		3,017.3883	3,017.3883	0.9394		3,040.8721

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	lb/day										lb/day					
Hauling	4.4600e-003	0.1979	0.0268	5.5000e-004	0.0921	7.5000e-004	0.0928	0.0230	7.2000e-004	0.0237		57.7689	57.7689	4.0900e-003		57.8712
Vendor	6.9100e-003	0.2207	0.0501	4.3000e-004	0.0100	1.6400e-003	0.0117	2.8900e-003	1.5700e-003	4.4600e-003		45.2095	45.2095	4.9700e-003		45.3337
Worker	0.0379	0.0246	0.2526	6.4000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		63.4884	63.4884	1.9300e-003		63.5366
Total	0.0492	0.4433	0.3295	1.6200e-003	0.1691	2.8200e-003	0.1719	0.0436	2.6900e-003	0.0463		166.4667	166.4667	0.0110		166.7415

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2018

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.7990	32.0985	14.9467	0.0300		1.4867	1.4867		1.3678	1.3678	0.0000	3,017.3883	3,017.3883	0.9394		3,040.8721
Total	2.7990	32.0985	14.9467	0.0300	2.0968	1.4867	3.5835	1.0776	1.3678	2.4454	0.0000	3,017.3883	3,017.3883	0.9394		3,040.8721

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	lb/day										lb/day					
Hauling	4.4600e-003	0.1979	0.0268	5.5000e-004	0.0921	7.5000e-004	0.0928	0.0230	7.2000e-004	0.0237		57.7689	57.7689	4.0900e-003		57.8712
Vendor	6.9100e-003	0.2207	0.0501	4.3000e-004	0.0100	1.6400e-003	0.0117	2.8900e-003	1.5700e-003	4.4600e-003		45.2095	45.2095	4.9700e-003		45.3337
Worker	0.0379	0.0246	0.2526	6.4000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		63.4884	63.4884	1.9300e-003		63.5366
Total	0.0492	0.4433	0.3295	1.6200e-003	0.1691	2.8200e-003	0.1719	0.0436	2.6900e-003	0.0463		166.4667	166.4667	0.0110		166.7415

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2019

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6418	29.9600	14.6752	0.0300		1.3694	1.3694		1.2598	1.2598		2,966.4709	2,966.4709	0.9386		2,989.9349
Total	2.6418	29.9600	14.6752	0.0300	6.5523	1.3694	7.9217	3.3675	1.2598	4.6273		2,966.4709	2,966.4709	0.9386		2,989.9349

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	lb/day										lb/day					
Hauling	4.2500e-003	0.1856	0.0260	5.4000e-004	0.0324	6.8000e-004	0.0331	8.3100e-003	6.5000e-004	8.9600e-003		57.2351	57.2351	3.9900e-003		57.3350
Vendor	6.2800e-003	0.2077	0.0459	4.3000e-004	0.0100	1.3900e-003	0.0114	2.8900e-003	1.3300e-003	4.2200e-003		44.9052	44.9052	4.7900e-003		45.0250
Worker	0.0347	0.0217	0.2262	6.2000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		61.5479	61.5479	1.7100e-003		61.5907
Total	0.0452	0.4149	0.2981	1.5900e-003	0.1094	2.5000e-003	0.1119	0.0290	2.3700e-003	0.0313		163.6882	163.6882	0.0105		163.9507

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2019

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.6418	29.9600	14.6752	0.0300		1.3694	1.3694		1.2598	1.2598	0.0000	2,966.4709	2,966.4709	0.9386		2,989.9349
Total	2.6418	29.9600	14.6752	0.0300	2.0968	1.3694	3.4661	1.0776	1.2598	2.3374	0.0000	2,966.4709	2,966.4709	0.9386		2,989.9349

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	lb/day										lb/day					
Hauling	4.2500e-003	0.1856	0.0260	5.4000e-004	0.0324	6.8000e-004	0.0331	8.3100e-003	6.5000e-004	8.9600e-003		57.2351	57.2351	3.9900e-003		57.3350
Vendor	6.2800e-003	0.2077	0.0459	4.3000e-004	0.0100	1.3900e-003	0.0114	2.8900e-003	1.3300e-003	4.2200e-003		44.9052	44.9052	4.7900e-003		45.0250
Worker	0.0347	0.0217	0.2262	6.2000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		61.5479	61.5479	1.7100e-003		61.5907
Total	0.0452	0.4149	0.2981	1.5900e-003	0.1094	2.5000e-003	0.1119	0.0290	2.3700e-003	0.0313		163.6882	163.6882	0.0105		163.9507

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2020

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.5121	28.1054	14.4326	0.0300		1.2714	1.2714		1.1697	1.1697		2,901.6386	2,901.6386	0.9385		2,925.0998
Total	2.5121	28.1054	14.4326	0.0300	6.5523	1.2714	7.8237	3.3675	1.1697	4.5372		2,901.6386	2,901.6386	0.9385		2,925.0998

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1718	0.0246	5.3000e-004	0.0323	5.5000e-004	0.0328	8.2900e-003	5.3000e-004	8.8100e-003		56.6455	56.6455	3.7900e-003		56.7402
Vendor	5.3300e-003	0.1891	0.0410	4.2000e-004	0.0100	9.4000e-004	0.0110	2.8900e-003	9.0000e-004	3.7900e-003		44.5915	44.5915	4.4700e-003		44.7032
Worker	0.0321	0.0193	0.2048	6.0000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		59.6023	59.6023	1.5200e-003		59.6403
Total	0.0413	0.3802	0.2704	1.5500e-003	0.1093	1.9100e-003	0.1112	0.0289	1.8100e-003	0.0307		160.8393	160.8393	9.7800e-003		161.0837

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2020

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.5121	28.1054	14.4326	0.0300		1.2714	1.2714		1.1697	1.1697	0.0000	2,901.6385	2,901.6385	0.9385		2,925.0998
Total	2.5121	28.1054	14.4326	0.0300	2.0968	1.2714	3.3681	1.0776	1.1697	2.2473	0.0000	2,901.6385	2,901.6385	0.9385		2,925.0998

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1718	0.0246	5.3000e-004	0.0323	5.5000e-004	0.0328	8.2900e-003	5.3000e-004	8.8100e-003		56.6455	56.6455	3.7900e-003		56.7402
Vendor	5.3300e-003	0.1891	0.0410	4.2000e-004	0.0100	9.4000e-004	0.0110	2.8900e-003	9.0000e-004	3.7900e-003		44.5915	44.5915	4.4700e-003		44.7032
Worker	0.0321	0.0193	0.2048	6.0000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		59.6023	59.6023	1.5200e-003		59.6403
Total	0.0413	0.3802	0.2704	1.5500e-003	0.1093	1.9100e-003	0.1112	0.0289	1.8100e-003	0.0307		160.8393	160.8393	9.7800e-003		161.0837

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3708	26.3151	14.1590	0.0299		1.1665	1.1665		1.0732	1.0732		2,901.1470	2,901.1470	0.9383		2,924.6042
Total	2.3708	26.3151	14.1590	0.0299	6.5523	1.1665	7.7189	3.3675	1.0732	4.4407		2,901.1470	2,901.1470	0.9383		2,924.6042

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1574	0.0240	5.3000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		56.0481	56.0481	3.6500e-003		56.1394
Vendor	4.5700e-003	0.1714	0.0367	4.2000e-004	0.0100	2.9000e-004	0.0103	2.8900e-003	2.8000e-004	3.1700e-003		44.2329	44.2329	4.2400e-003		44.3388
Worker	0.0299	0.0173	0.1872	5.8000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		57.6105	57.6105	1.3700e-003		57.6446
Total	0.0381	0.3461	0.2478	1.5300e-003	0.1191	1.1800e-003	0.1203	0.0313	1.1100e-003	0.0325		157.8914	157.8914	9.2600e-003		158.1228

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.2 Grading - 2021

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	lb/day										lb/day					
Fugitive Dust					2.0968	0.0000	2.0968	1.0776	0.0000	1.0776			0.0000			0.0000
Off-Road	2.3708	26.3151	14.1590	0.0299		1.1665	1.1665		1.0732	1.0732	0.0000	2,901.1470	2,901.1470	0.9383		2,924.6042
Total	2.3708	26.3151	14.1590	0.0299	2.0968	1.1665	3.2633	1.0776	1.0732	2.1508	0.0000	2,901.1470	2,901.1470	0.9383		2,924.6042

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1574	0.0240	5.3000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		56.0481	56.0481	3.6500e-003		56.1394
Vendor	4.5700e-003	0.1714	0.0367	4.2000e-004	0.0100	2.9000e-004	0.0103	2.8900e-003	2.8000e-004	3.1700e-003		44.2329	44.2329	4.2400e-003		44.3388
Worker	0.0299	0.0173	0.1872	5.8000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		57.6105	57.6105	1.3700e-003		57.6446
Total	0.0381	0.3461	0.2478	1.5300e-003	0.1191	1.1800e-003	0.1203	0.0313	1.1100e-003	0.0325		157.8914	157.8914	9.2600e-003		158.1228

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2018

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	lb/day										lb/day					
Off-Road	0.9388	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272		1,190.166 2	1,190.166 2	0.3705		1,199.429 1
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9575	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272		1,190.166 2	1,190.166 2	0.3705		1,199.429 1

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	lb/day										lb/day					
Hauling	4.4600e-003	0.1979	0.0268	5.5000e-004	0.0921	7.5000e-004	0.0928	0.0230	7.2000e-004	0.0237		57.7689	57.7689	4.0900e-003		57.8712
Vendor	6.9100e-003	0.2207	0.0501	4.3000e-004	0.0100	1.6400e-003	0.0117	2.8900e-003	1.5700e-003	4.4600e-003		45.2095	45.2095	4.9700e-003		45.3337
Worker	0.0379	0.0246	0.2526	6.4000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		63.4884	63.4884	1.9300e-003		63.5366
Total	0.0492	0.4433	0.3295	1.6200e-003	0.1691	2.8200e-003	0.1719	0.0436	2.6900e-003	0.0463		166.4667	166.4667	0.0110		166.7415

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2018

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	lb/day										lb/day					
Off-Road	0.9388	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272	0.0000	1,190.166 2	1,190.166 2	0.3705		1,199.429 1
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9575	9.6871	7.9680	0.0118		0.5730	0.5730		0.5272	0.5272	0.0000	1,190.166 2	1,190.166 2	0.3705		1,199.429 1

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	lb/day										lb/day					
Hauling	4.4600e-003	0.1979	0.0268	5.5000e-004	0.0921	7.5000e-004	0.0928	0.0230	7.2000e-004	0.0237		57.7689	57.7689	4.0900e-003		57.8712
Vendor	6.9100e-003	0.2207	0.0501	4.3000e-004	0.0100	1.6400e-003	0.0117	2.8900e-003	1.5700e-003	4.4600e-003		45.2095	45.2095	4.9700e-003		45.3337
Worker	0.0379	0.0246	0.2526	6.4000e-004	0.0669	4.3000e-004	0.0674	0.0178	4.0000e-004	0.0182		63.4884	63.4884	1.9300e-003		63.5366
Total	0.0492	0.4433	0.3295	1.6200e-003	0.1691	2.8200e-003	0.1719	0.0436	2.6900e-003	0.0463		166.4667	166.4667	0.0110		166.7415

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2019

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	lb/day										lb/day					
Off-Road	0.8286	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539		1,170.9806	1,170.9806	0.3705		1,180.2428
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8473	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539		1,170.9806	1,170.9806	0.3705		1,180.2428

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	lb/day										lb/day					
Hauling	4.2500e-003	0.1856	0.0260	5.4000e-004	0.0324	6.8000e-004	0.0331	8.3100e-003	6.5000e-004	8.9600e-003		57.2351	57.2351	3.9900e-003		57.3350
Vendor	6.2800e-003	0.2077	0.0459	4.3000e-004	0.0100	1.3900e-003	0.0114	2.8900e-003	1.3300e-003	4.2200e-003		44.9052	44.9052	4.7900e-003		45.0250
Worker	0.0347	0.0217	0.2262	6.2000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		61.5479	61.5479	1.7100e-003		61.5907
Total	0.0452	0.4149	0.2981	1.5900e-003	0.1094	2.5000e-003	0.1119	0.0290	2.3700e-003	0.0313		163.6882	163.6882	0.0105		163.9507

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2019

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	lb/day										lb/day					
Off-Road	0.8286	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539	0.0000	1,170.9806	1,170.9806	0.3705		1,180.2428
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8473	8.5176	7.8834	0.0118		0.4934	0.4934		0.4539	0.4539	0.0000	1,170.9806	1,170.9806	0.3705		1,180.2428

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	lb/day										lb/day					
Hauling	4.2500e-003	0.1856	0.0260	5.4000e-004	0.0324	6.8000e-004	0.0331	8.3100e-003	6.5000e-004	8.9600e-003		57.2351	57.2351	3.9900e-003		57.3350
Vendor	6.2800e-003	0.2077	0.0459	4.3000e-004	0.0100	1.3900e-003	0.0114	2.8900e-003	1.3300e-003	4.2200e-003		44.9052	44.9052	4.7900e-003		45.0250
Worker	0.0347	0.0217	0.2262	6.2000e-004	0.0669	4.3000e-004	0.0674	0.0178	3.9000e-004	0.0182		61.5479	61.5479	1.7100e-003		61.5907
Total	0.0452	0.4149	0.2981	1.5900e-003	0.1094	2.5000e-003	0.1119	0.0290	2.3700e-003	0.0313		163.6882	163.6882	0.0105		163.9507

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2020

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	lb/day										lb/day					
Off-Road	0.7689	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123		1,145.4831	1,145.4831	0.3705		1,154.7449
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7876	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123		1,145.4831	1,145.4831	0.3705		1,154.7449

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1718	0.0246	5.3000e-004	0.0323	5.5000e-004	0.0328	8.2900e-003	5.3000e-004	8.8100e-003		56.6455	56.6455	3.7900e-003		56.7402
Vendor	5.3300e-003	0.1891	0.0410	4.2000e-004	0.0100	9.4000e-004	0.0110	2.8900e-003	9.0000e-004	3.7900e-003		44.5915	44.5915	4.4700e-003		44.7032
Worker	0.0321	0.0193	0.2048	6.0000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		59.6023	59.6023	1.5200e-003		59.6403
Total	0.0413	0.3802	0.2704	1.5500e-003	0.1093	1.9100e-003	0.1112	0.0289	1.8100e-003	0.0307		160.8393	160.8393	9.7800e-003		161.0837

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2020

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	lb/day										lb/day					
Off-Road	0.7689	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123	0.0000	1,145.4831	1,145.4831	0.3705		1,154.7449
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7876	7.8760	7.8613	0.0118		0.4481	0.4481		0.4123	0.4123	0.0000	1,145.4831	1,145.4831	0.3705		1,154.7449

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1718	0.0246	5.3000e-004	0.0323	5.5000e-004	0.0328	8.2900e-003	5.3000e-004	8.8100e-003		56.6455	56.6455	3.7900e-003		56.7402
Vendor	5.3300e-003	0.1891	0.0410	4.2000e-004	0.0100	9.4000e-004	0.0110	2.8900e-003	9.0000e-004	3.7900e-003		44.5915	44.5915	4.4700e-003		44.7032
Worker	0.0321	0.0193	0.2048	6.0000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.8000e-004	0.0181		59.6023	59.6023	1.5200e-003		59.6403
Total	0.0413	0.3802	0.2704	1.5500e-003	0.1093	1.9100e-003	0.1112	0.0289	1.8100e-003	0.0307		160.8393	160.8393	9.7800e-003		161.0837

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 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	lb/day										lb/day					
Off-Road	0.7077	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691		1,145.315 2	1,145.315 2	0.3704		1,154.575 6
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7264	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691		1,145.315 2	1,145.315 2	0.3704		1,154.575 6

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1574	0.0240	5.3000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		56.0481	56.0481	3.6500e-003		56.1394
Vendor	4.5700e-003	0.1714	0.0367	4.2000e-004	0.0100	2.9000e-004	0.0103	2.8900e-003	2.8000e-004	3.1700e-003		44.2329	44.2329	4.2400e-003		44.3388
Worker	0.0299	0.0173	0.1872	5.8000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		57.6105	57.6105	1.3700e-003		57.6446
Total	0.0381	0.3461	0.2478	1.5300e-003	0.1191	1.1800e-003	0.1203	0.0313	1.1100e-003	0.0325		157.8914	157.8914	9.2600e-003		158.1228

CVWD NPW Connections - Riverside-Salton Sea County, Winter

3.3 Paving - 2021

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	lb/day										lb/day					
Off-Road	0.7077	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691	0.0000	1,145.315 2	1,145.315 2	0.3704		1,154.575 6
Paving	0.0187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7264	7.2500	7.8455	0.0118		0.4012	0.4012		0.3691	0.3691	0.0000	1,145.315 2	1,145.315 2	0.3704		1,154.575 6

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1574	0.0240	5.3000e-004	0.0421	4.8000e-004	0.0426	0.0107	4.6000e-004	0.0112		56.0481	56.0481	3.6500e-003		56.1394
Vendor	4.5700e-003	0.1714	0.0367	4.2000e-004	0.0100	2.9000e-004	0.0103	2.8900e-003	2.8000e-004	3.1700e-003		44.2329	44.2329	4.2400e-003		44.3388
Worker	0.0299	0.0173	0.1872	5.8000e-004	0.0669	4.1000e-004	0.0673	0.0178	3.7000e-004	0.0181		57.6105	57.6105	1.3700e-003		57.6446
Total	0.0381	0.3461	0.2478	1.5300e-003	0.1191	1.1800e-003	0.1203	0.0313	1.1100e-003	0.0325		157.8914	157.8914	9.2600e-003		158.1228

Appendix B

Air Quality General Conformity Analysis Memorandum



Rincon Consultants, Inc.

Environmental Scientists

Planners

Engineers

M E M O R A N D U M

- | | | | | |
|---|--|---|---|--|
| <input checked="" type="checkbox"/> Ventura
180 North Ashwood
Avenue
Ventura, California
93003
805 644 4455 | <input type="checkbox"/> San Luis Obispo
1530 Monterey Street
Suite D
San Luis Obispo, California
93401
805 547 0900 | <input type="checkbox"/> Carlsbad
2215 Faraday Avenue
Suite A
Carlsbad, California
92008
760 918 9444 | <input type="checkbox"/> Monterey
437 Figueroa Street
Suite 203
Monterey, California
93940
831 333 0310 | <input type="checkbox"/> Oakland
449 15th Street
Suite 303
Oakland, California
94612
510 834 4455 |
| <input type="checkbox"/> Fresno
7080 North Whitney
Avenue, Suite 101
Fresno, California
93720
559 228 9925 | <input type="checkbox"/> Sacramento
4825 J Street
Suite 200
Sacramento, California
95819
916 706 1374 | <input type="checkbox"/> Los Angeles
250 East 1st Street
Suite 301
Los Angeles, California
90012
213 788 4842 | <input type="checkbox"/> Santa Barbara
209 E. Victoria Avenue
Santa Barbara, California
93101
805 644 4455 | <input type="checkbox"/> Redlands
301 9th Street
Suite 310
Redlands, California
92374
909 253 0705 |

Date: 4/12/2018

To: Elizabeth Meyerhoff, Environmental Specialist

Organization: Coachella Valley Water District

From: Amanda Silver-Westrick, Associate Environmental Planner

E-mail: aswestrick@rinconconsultants.com

cc: Jennifer Haddow, Principal Environmental Scientist

Re: Non-Potable Connections Project, Air Quality General Conformity Analysis

This memorandum has been prepared for the Coachella Valley Water District, and serves as the General Conformity Analysis for the Non-Potable Connections Project. The program by which a federal agency determines that its action would not conflict with air quality attainment plans is referred to as "general conformity." The project may receive funding through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program. The State Water Resources Control Board (SWRCB) administers the Clean Water State Revolving Fund (SRF) through an operating agreement between the U.S. Environmental Protection Agency (USEPA) and the State of California. The federal action in this case relates to the provisioning of funds under the Clean Water SRF program. Therefore, the purpose of this memorandum is to evaluate the Proposed Action's conformity to the applicable State Implementation Plan (SIP) and consistency with the federal Clean Air Act (CAA) General Conformity Rule.

Project Description

The Non-Potable Water Connections Project ("proposed project") involves the construction and operation of approximately 9.4 miles of non-potable water (NPW) pipeline segments and connections to provide irrigation water for seven local golf courses, one RV resort, one planned future development, and replacement of an existing pump station for a total pumping capacity of approximately 12,000 gpm

for the low pressure system and 12,000 gpm for the high pressure system. The proposed NPW end users currently use groundwater or CVWD-supplied potable water for irrigation. The proposed project would deliver a blend of tertiary treated water from CVWD's existing Water Reclamation Plant No. 10 (WRP10) facility and Colorado River water from the Mid-Valley Pipeline terminus at WRP10. CVWD's WRP10 facility is located at 43000 Cook Street within the City of Palm Desert.

The proposed project would install approximately 50,000 linear feet (LF) of non-potable pipeline within public right of way and private lands within the City of Palm Desert and unincorporated Bermuda Dunes. The majority of the pipeline alignment (approximately 40,000 LF) would be placed in the City of Palm Desert, with approximately 10,000 LF of pipeline extending east into unincorporated Bermuda Dunes. In locations where new NPW distribution pipes would be installed parallel to existing NPW pipelines, those new pipelines would serve to increase capacity of the NPW distribution system. The new pipelines would increase the NPW distribution network from approximately 26.6 miles to 36 miles.

The proposed new NPW users to be served under the proposed project are listed below:

1. Marriot Shadow Ridge
2. Marriot Desert Springs Resort (North)
3. Emerald Desert RV Resort
4. Oasis Country Club
5. Palm Desert Resort Country Club
6. Woodhaven Country Club
7. Bermuda Dunes Country Club

Additionally, an eighth terminal will be located near the intersection of El Dorado Drive and Tomahawk Drive. This terminal will increase capacity for NPW deliveries to an existing NPW user: Indian Ridge Country Club.

The proposed NPW pipelines would be extended adjacent to Rancho Portola, a planned future development in the City of Palm Desert. Additional NPW pipeline may be constructed at a later date to connect the planned NPW distribution system to a lake on the property of this future user.

The major components of the project are described in more detail in Section 2, Project Description, of the CEQA Plus Initial Study/Mitigated Negative Declaration.

Regulatory Framework

Section 176(c) of the CAA, as amended (42 United States Code [U.S.C.] 7401 et seq.) prohibits agencies of the federal government from engaging in, supporting, providing financial assistance to, or issuing permits for activities, which do not conform to an applicable SIP. Requirements for preparation of SIPs, provided in 40 Code of Federal Regulations (CFR) 51, were adopted by the South Coast Air Quality Management District (SCAQMD) in Rule 1901.

Title 40 CFR Part 51 Subpart W and 40 CFR Part 93 Subpart B: General Conformity

The General Conformity Rule requires federal agencies to ensure that actions taken by those agencies conform to the applicable SIP. General Conformity regulations apply only to direct and/or indirect emissions caused by the actions that occur in areas designated as non-attainment or maintenance areas with respect to National Ambient Air Quality Standards (NAAQS). These regulations require an applicability analysis to determine whether the federal action must be supported by a conformity determination. The applicability analysis is established for federal actions performed in locations with a history of non-compliance, as described below:

- a. An area that is in non-attainment (i.e., has recorded violations of the NAAQS), and each criteria pollutant (such as ozone, carbon monoxide, and particulate matter) for which the area is designated as non-attainment area; and
- b. An area that was designated as a non-attainment area but was later re-designated by the Administrator of the Environmental Protection Agency (USEPA) as an attainment area, and that is required to develop a maintenance plan under section 7505a of 42 U.S.C. with respect to the specific pollutant for which the area was designated nonattainment.

The applicability analysis involves calculation of the total direct and indirect emissions of criteria or precursor air pollutants during the years of construction of the federal action. A conformity determination must be made if the annual emissions exceed the rates specified in 40 CFR Part 93.153(b), referred to as *de minimis* thresholds. If the applicable emissions exceed the *de minimis* thresholds outlined in the General Conformity Rule, then the federal agency would prepare a General Conformity Determination for public comment.

SCAQMD Rule 1901 – General Conformity

The SCAQMD has adopted the provisions of Part 51, Subchapter C, Chapter I, Title 40, of the CFR as part of Rule 1901 – General Conformity. The provisions of this regulation apply to any general federal action funded or approved under Title 23 U.S.C. For the purpose of this regulation, the “State agency primarily responsible for the applicable implementation plan” as used in Part 51, Subchapter C, Chapter I, Title 40, of the CFR shall mean SCAQMD. The word “MPO” as used in Part 51, Subchapter C, Chapter I, Title 40, of the CFR shall mean Southern California Association of Governments (SCAG).

Salton Sea Air Basin General Conformity Thresholds

The General Conformity Rule ensures that actions taken by federal agencies in nonattainment and maintenance areas do not interfere with the State’s plans to meet NAAQS. 40 CFR Part 93.153 defines “*de minimis*” levels, which are the minimum threshold for which a conformity determination must be performed, for various criteria pollutants in various areas. If the Proposed Action’s annual emissions are below the applicable *de minimis* levels, the action is not subject to a general conformity determination.

As shown in Table 1, the portion of Riverside County that the project site is within is unclassified or in attainment for all pollutants, except ozone (VOC or NO_x) and PM₁₀. The *de minimis* level that applies to the project site for ozone (VOC or NO_x) is 25 tons per year. The *de minimis* level that applies to the project site for PM₁₀ is 70 tons per year. These levels apply to all direct and indirect annual emissions generated during construction and operation of the Proposed Action under federal agency control.

Table 1 General Conformity De Minimis Emission Rates for Project Site in SSAB

Pollutant	SCAB Attainment Status Designation	De Minimis Emission Rate (tons/year)
Ozone (VOC or NO _x)	Nonattainment (Severe-15) ¹	25
CO	Unclassifiable/Attainment	NA
PM ₁₀	Nonattainment (Serious)	70
PM _{2.5}	Unclassifiable/Attainment	NA
SO ₂	Designations Pending/Unclassifiable/Attainment ²	NA
NO ₂	Unclassifiable/Attainment	NA
Lead	Unclassifiable/Attainment	NA

NA: Not applicable; VOC: volatile organic compounds; CO: carbon monoxide; PM₁₀: particulate matter less than 10 microns in diameter; PM_{2.5}: particulate matter less than 2.5 microns in diameter; SO₂: sulfur dioxide; NO₂: nitrogen dioxide

1. Designated Nonattainment (Severe-15) for the 1997 and 2008 8-Hour Ozone NAAQS. Designation is pending for the 2015 8-Hour Ozone NAAQS, but Nonattainment (Severe) is expected.

2. Designated Unclassifiable/Attainment for the Annual SO₂ NAAQS. Designations pending for the 1-Hour SO₂ NAAQS with SSAB expected to be designated Unclassifiable/Attainment.

Sources: USEPA, <https://www.epa.gov/general-conformity/de-minimis-emission-levels>, 2017; California Air Resources Board, <https://www.arb.ca.gov/desig/adm/adm.htm>.

Methodology

The sources of construction emissions include exhaust from the combustion of diesel fuel in on-road vehicles and off-road equipment and fugitive dust from earthwork activities. Emissions associated with construction of the Proposed Action were quantified for volatile organic compounds (VOC), nitrogen oxide (NO_x), carbon dioxide (CO), particulate matter less than 10 microns in diameter (PM₁₀), particulate matter less than 2.5 microns in diameter (PM_{2.5}), and sulfur dioxide (SO₂). For the purposes of this evaluation, emissions of nitrogen dioxide (NO₂) were assumed to equal emissions of NO_x, and emissions of SO₂ were assumed to constitute the functional majority of sulfur oxide (SO_x) emissions. The Proposed Action does not include a source of lead emissions.

The project’s construction and operational emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2016.3.2. CalEEMod was developed by SCAQMD and is used by jurisdictions throughout the state to quantify criteria pollutant emissions. Complete CalEEMod assumptions and results are contained in Appendix A.

Construction emissions modeled include emissions generated by construction equipment used on-site and emissions generated by vehicle trips associated with construction, such as worker trips and hauling trips. Construction modeling assumed that the project would disturb an approximately 5.7-acre area; this disturbance area assumes that the approximately 50,000 linear feet of pipeline would be constructed via open trench measuring five feet in width. The construction schedule, construction equipment, and estimated grading quantities input into CalEEMod were based on information provided by CVWD. In addition, it was assumed the project would comply with all applicable regulatory standards, such as SCAQMD Rule 403, which requires control measures to reduce fugitive dust emissions. Consistent with measures recommended by SCAQMD to ensure compliance with Rule 403, it was assumed watering of disturbed areas would occur three times per day.

Operational emissions were not calculated because electricity generated by the proposed project would be offset in reductions of groundwater pumping and potable water treatment and delivery. Since the new pipeline would not require additional maintenance trips, there would be no operational mobile source emissions associated with the proposed project.

Total direct and indirect emissions associated with the Proposed Action were compared to the *de minimis* thresholds shown in Table 1.

General Conformity Assessment

Table 2 summarizes the project’s maximum annual emissions as compared to the applicable *de minimis* thresholds for the SSAB region.

Table 2 Maximum Annual Emissions Compared to De Minimis Threshold

Emissions Source	Estimated Annual Emissions (tons/year)						
	VOC	NO _x	NO ₂	CO	PM ₁₀	PM _{2.5}	SO ₂
Maximum Annual Emissions	0.5	5.1	5.1	3.0	0.6	0.4	<0.1
De Minimis Thresholds	25	25	n/a	n/a	70	n/a	n/a
Threshold Exceeded?	No	No	n/a	n/a	No	n/a	n/a

VOC: volatile organic compounds; NO_x: nitrogen oxides; NO₂: nitrogen dioxide; CO: carbon monoxide; PM₁₀: particulate matter less than 10 microns in size; PM_{2.5}: particulate matter less than 2.5 microns in size; SO₂: sulfur dioxide; n/a: not applicable.

See Appendix A for modeling details and CalEEMod results.

As shown in Table 2, criteria air pollutant emissions from the project would be below the applicable *de minimis* thresholds for the SSAB region. Therefore, the general conformity requirements do not apply to these pollutants, and the Proposed Action is exempt from a conformity determination.

Appendix C

Biological Resources Assessment



Non-Potable Water Connections Project

Biological Resources Assessment

prepared for

Coachella Valley Water District

75-515 Hovley Lane East

Palm Desert, California 92211

Contact: Elizabeth Meyerhoff, Environmental Specialist

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April 2018

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Appendices

Appendix A Regionally Occurring Special Status Species
Appendix B Representative Site Photographs
Appendix C Plant and Wildlife Species Observed Onsite

1 Introduction

Rincon Consultants, Inc. (Rincon) prepared this Biological Resources Assessment (BRA) report to document the current existing conditions within the project site and to evaluate the potential for project-related impacts to biological resources during implementation of the Non-Potable Water (NPW) Connections Project (project). Coachella Valley Water District (CVWD) is the project's responsible lead agency. The project is located in the City of Palm Desert in Riverside County, California.

1.1 Project Location

The project is located less than 2 miles south of Interstate 10 in the City of Palm Desert, California, in the center of Riverside County (Figure 1). The City is surrounded by the cities of Rancho Mirage to the west, Indian Wells to the south, and Bermuda Dunes to the east. The project site is depicted in Figure 2. The proposed project would be located mostly within existing paved roads and embankments in residential and commercial areas. It is depicted on Township 5S, Range 6E, Sections 10-15 of the U.S. Geological Survey *La Quinta and Myoma, CA* 7.5-minute topographic quadrangles, San Bernardino Baseline and Meridian.

1.2 Project Description

The proposed project involves the construction and operation of approximately 9.4 miles of non-potable water (NPW) pipeline segments and connections to provide irrigation water for seven local golf courses, one RV resort, one planned future development, and replacement of an existing pump station for a total pumping capacity of approximately 12,000 gpm for the low pressure system and 12,000 gpm for the high pressure system. The proposed NPW end users currently use groundwater or CVWD-supplied potable water for irrigation. The proposed project would deliver a blend of NPW from CVWD's existing WRP10 facility and Colorado River water from the MVP terminus at WRP10. CVWD's WRP10 facility is located at 43000 Cook Street in Palm Desert.

The proposed project would install approximately 50,000 linear feet (LF) of non-potable pipeline within public right-of-way and private lands in Palm Desert and unincorporated Bermuda Dunes. The majority of the pipeline alignment (approximately 40,000 LF) would be placed in Palm Desert, with approximately 10,000 LF of pipeline extending east into unincorporated Bermuda Dunes. In locations where new NPW distribution pipes would be installed parallel to existing NPW pipelines, those new pipelines would serve to increase capacity of the NPW distribution system. The new pipelines would increase the NPW distribution network from approximately 26.6 miles to 36 miles.

The proposed new NPW users to be served under the proposed project are listed below:

1. Marriott Shadow Ridge
2. Marriott Desert Springs Resort (North)
3. Emerald Desert RV Resort
4. Oasis Country Club

5. Palm Desert Resort Country Club
6. Woodhaven Country Club
7. Bermuda Dunes Country Club

Additionally, an eighth terminal will be located near the intersection of El Dorado Drive and Tomahawk Drive. This terminal will increase capacity for NPW deliveries to an existing NPW user: Indian Ridge Country Club.

The proposed NPW pipelines would extend adjacent to Rancho Portola, a planned future development in Palm Desert. Additional NPW pipeline may be constructed at a later date to connect the planned NPW distribution system to a lake on the property of this future user.

The proposed NPW pipeline would supply NPW to existing and future customers through CVWD's low and high pressure NPW delivery systems. Two pump stations within WRP10 would provide pressure to move NPW through the proposed NPW system expansions. The existing T-1 pump station would be replaced and expanded for a total pumping capacity of approximately 12,000 gpm for the low pressure system and 12,000 gpm for the high pressure system. The existing T-2 pump station, which will not be upgraded as part of the proposed project but will provide pressure to move NPW through the NPW system expansions, has a total capacity of 15,000 gpm for the low pressure system and 15,000 gpm for the high pressure system.

Construction would commence in September 2018 and end in October 2021. Each of the proposed connections would entail removal of existing ground cover (landscaping, asphalt, or concrete), open trenching along the NPW pipeline alignment, placement of bedding within the trench, placement of NPW pipeline, backfilling of trenches and soil compaction, and installation of meters and motor actuated valves. The pipeline would be constructed via open trench measuring five feet in width and up to eight feet in depth. The total disturbed area is therefore assumed to be 250,000 square feet.

Operation and maintenance of the proposed project would include conveyance of NPW from CVWD's existing WRP10 facility to each of the proposed connections to provide irrigation water. The proposed pipeline would provide NPW into water impoundments (surface lakes) located onsite at each golf course and the Emerald Desert RV Resort facility. Each delivery would be equipped with one motor actuated valve located in a belowground vault, adjacent to the lake discharge. The motor actuated valve will allow each terminal user to control delivery of NPW to the on-site water impoundment. Deliveries will be measured via CVWD-owned meters, located immediately outside of right-of-way within an easement obtained from the respective customer. Each meter vault will be equipped with an antenna and telemetry panel. The delivery of NPW would require pump station operation and motor-actuated valve operation.

Figure 1 Regional Project Location



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-  Project Alignment
 -  Project Location
- N

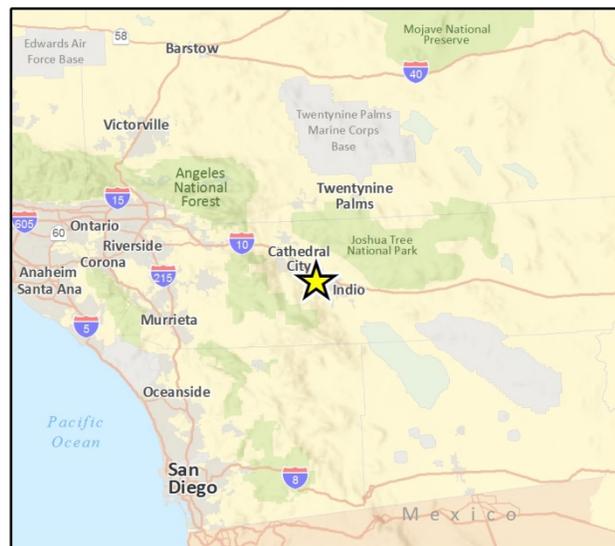
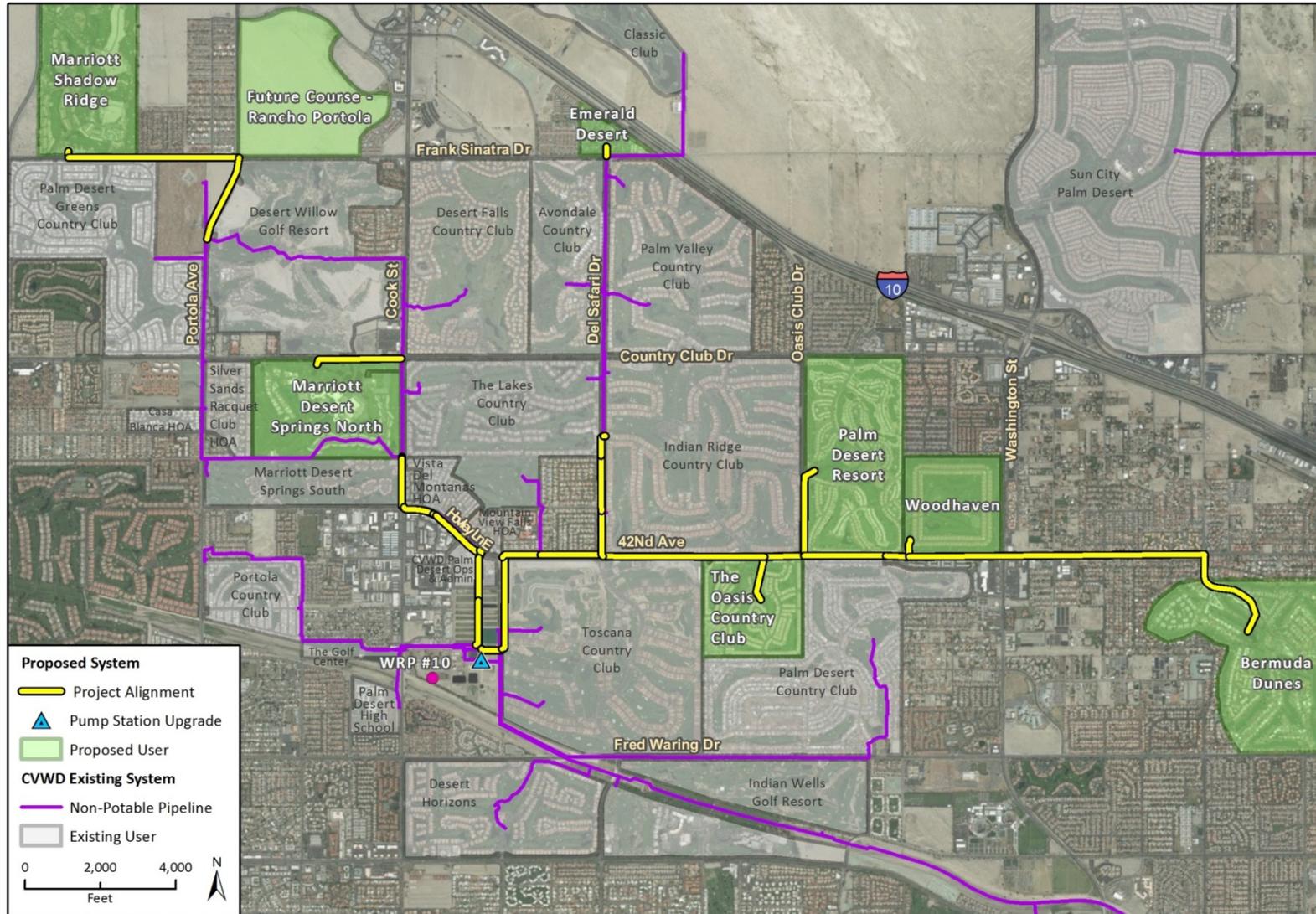


Fig 1 Regional Project Location 20180308

Figure 2 Project Location- Overview



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 Additional data provided by Coachella Valley Water District, 2018.

2 Methodology

2.1 Regulatory Setting

This section provides a general summary of the applicable federal and state regulations related to biological resources that could occur within the project site and immediate vicinity. Regulated or sensitive biological resources considered and evaluated in this BRA include special status plant and wildlife species, other nesting birds and raptors, sensitive plant communities, potentially jurisdictional waters and wetlands, wildlife movement corridors, and locally protected resources, such as protected trees.

Coachella Valley Water District is the responsible lead agency for this project under the California Environmental Quality Act (CEQA). This project may also involve the use of funds provided by the federal government and would need to meet CEQA-Plus regulatory standards. The State Water Resources Control Board (SWRCB) would have the responsibility for CEQA-Plus review which applies federal standards to the CEQA process.

2.1.1 Environmental Statutes

For the purposes of this BRA, potential project-related impacts to biological resources were analyzed on the basis of the following regulatory statutes and guiding documents:

- **California Environmental Quality Act (CEQA).** Requires environmental review prior to approval of discretionary projects, and requires significant impacts to be mitigated if feasible.
- **Federal Endangered Species Act (ESA) and California Endangered Species Act (CESA).** These laws prohibit the unauthorized take of federally and state-listed threatened and endangered species.
- **Federal Clean Water Act (CWA) and Porter-Cologne Water Quality Control Act.** These laws prohibit unauthorized discharges of pollutants, including fill material for construction, into jurisdictional waters of the United States and waters of the State.
- **California Fish and Game Code (CFG) Sections 1600 et seq.** These sections of the CFG set forth the Lake/ Streambed Alteration Agreement program, through which the California Department of Fish and Wildlife (CDFW) regulates activities that would divert, obstruct, or alter streambeds.
- **Migratory Bird Treaty Act (MBTA) and CFG Section 3503.** These laws prohibit the destruction of birds, including their eggs, nests, and nestlings.
- **Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP).** The project site lies within the boundary of CVMSHCP, which is an adopted, regional plan with the overall goal to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth.
- **City of Palm Desert General Plan.** The City of Palm Desert General Plan (City of Palm Desert, 2016) guides the City's land use development.

2.1.2 Guidelines for Determining CEQA Significance

The following threshold criteria, as defined within the CEQA Guidelines, Appendix G – Initial Study Checklist, are used as the basis to evaluate potential environmental effects. Centered on these criteria, a proposed project would have a significant effect on biological resources if it would:

- a) Have substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or US Fish and Wildlife Service.
- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.
- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or state habitat conservation plan.

2.2 Database and Literature Review

Prior to conducting the biological field survey for this BRA, Rincon reviewed a variety of literature to obtain baseline information about the biological resources with potential to occur at the project site and in the surrounding areas. The literature review included information from standard biological reference materials and regionally applicable regulatory guiding documents including (but not limited to) the following: Baldwin et al., 2012; and Sawyer et al., 2009. Rincon also conducted queries of several relevant scientific databases that provide information about occurrences of sensitive biological resources: the California Department of Fish and Wildlife (CDFW; formerly the California Department of Fish and Game) California Natural Diversity Data Base (CNDDB) (California Department of Fish and Wildlife, 2017) and Biogeographic Information and Observation System (California Department of Fish and Wildlife, 2017); the U.S. Fish and Wildlife Service (USFWS) Critical Habitat Portal (U.S. Fish and Wildlife Service, 2017a) and Information, Planning, and Conservation (IPaC) System Query (U.S. Fish and Wildlife Service, 2017b); National Wetlands Inventory (NWI) (United States Department of the Interior, Fish and Wildlife Service 2017); the United States Department of Agriculture, Natural Resource Conservation Service (NRCS) Web Soil Survey (Natural Resources Conservation Service, 2017); and the California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants of California (California Native Plant Society, 2017). The queries included the Myoma and La Quinta, California USGS 7.5-minute topographic quadrangles and the other ten USGS quadrangles that surround them (Seven Palms Valley, East Deception Canyon, Keys View, West Berdoo Canyon, Indio, Valerie, Martinez Mountain, Toro Peak, Rancho Mirage, and Cathedral City).

Rincon compiled a complete list of special status species previously documented within a five-mile radius of the project site from the CNDDDB query and those species reported from the USFWS-IPaC query (Appendix A). Then an analysis to determine which of these special status species have the potential to occur within the project site was conducted. The habitat requirements for each regionally occurring special status species were assessed and compared to the type and quality of habitats observed onsite during the biological field survey. Conclusions regarding which special status species have the potential to occur onsite were based not only on background research and literature review previously mentioned; but also on the data collected in the field during the site survey. Several regionally occurring special status species were eliminated due to lack of suitable habitat within the project site, range in elevation, and/or geographic distribution. Special status species determined to have the potential to occur within the project site; as well as the results of the field survey efforts are discussed in Section 4. Special status species that were determined not to have potential to occur within the project site are not discussed further in this BRA.

2.3 Focused Biological Field Survey

Rincon Senior Botanist/Biologist, Robin Murray conducted the biological field survey for this BRA on November 28, 2017. The survey was conducted from 8:30 am to 11:00 am. The temperature ranged from 62°F to 76°F. The wind was calm and the cloud cover was minimal. A follow-up survey was also completed by Ms. Murray on March 14, 2018 to survey additional project area subsequently added to the original survey area. The survey was conducted between 10:00 am to 1:30 pm. The temperature ranged from 68°F to 75°F. Wind gusts averaged 10 mph from the north, and cloud cover was minimal.

During the field survey an inventory of all plant species observed was compiled, the existing vegetation communities were further classified, and the general site conditions were documented. Plant species nomenclature and taxonomy followed *The Jepson Manual: Vascular Plants of California*, second edition (Baldwin et al., 2012). The vegetation classification used for this analysis is based on Sawyer et al. (2009) but it has been modified as needed to most accurately describe the existing vegetation communities onsite.

The field survey consisted of a biologist walking and driving the extent of the project area, documenting the condition of the habitats onsite, and recording the plants and animals observed within and adjacent to the action area within a 100-foot buffer (study area). Evidence of human disturbance was noted and photographs of notable features were taken. Avian species were identified using the *Sibley Guide to Birds* (Sibley 2000).

3 Existing Conditions

This section summarizes the results of the focused biological field survey effort and provides further analysis of the data collected in the field. Discussions regarding the general environmental setting, vegetation communities present, plant and wildlife species observed, special status species issues, and other biological resource constraints onsite are presented below. Representative photographs of the project site are provided in Appendix B and a complete list of all the plant and wildlife species observed onsite during the biological field survey is presented as Appendix C.

3.1 Topography and Soils

The project site is located in central Riverside County, within the Coachella Valley (Figure 1). The Coachella Valley is a desert valley that extends approximately 45 miles, and is bounded by the Little San Bernardino Mountains and Joshua Tree National Park in the east, San Jacinto Mountains and Santa Rosa Mountains to the west and southwest, the Salton Sea to the southeast, and San Gorgonio Mountain to the north. The site elevation ranges from 50 to 70 meters (164 to 230 feet) above mean sea level.

Based on the most recent soil survey for Riverside County (NRCS Web Soil Survey) the study area contains two mapped soil types listed below:

- Myoma fine sand, 0 to 5 percent slopes
- Myoma fine sand, 5 to 15 percent slopes

The Myoma series consists of fine, well drained alkaline soils formed from sand blown from recent alluvium. These soils are used primarily for growing citrus fruits, grapes, alfalfa, dates and truck crops under irrigation. Natural vegetation typically includes ephemeral grasses and forbs, and a sparse cover of creosote bush, bush sunflower and mesquite.

These soil units are from the USDA NRCS Soil Survey of Riverside County, California, which was conducted on a broader scale than this study and did not necessarily include onsite observations. The physical characteristics of the soil unit, as described above, are general and not necessarily indicative of characteristics actually present on the property.

3.2 Land Cover and Vegetation

The project site is within the Sonoran Desert Region (DSon) geographic subdivision of California. The DSon subdivision is a component of the larger Desert Province (D) geographic region, which occurs within the even larger California Floristic Province (Baldwin et al., 2012). The majority of the proposed alignment is within developed urban areas. The project alignment is shown overlain on aerial imagery in Figure 3a through Figure 3f below.

The northwestern segment of the alignment primarily traverses along paved roads adjacent to residential communities and accompanying golf courses. However, where the alignment enters the Marriott Shadow Ridge Golf Club, disturbed native vegetation is present. The open shrub layer consists of arrowweed (*Pluchea sericea*), Acton encelia (*Encelia actoni*), and burrobush (*Ambrosia*

dumosa), while the herbaceous layer is dominated by Arabian schismus (*Schismus arabicus*), Asian mustard (*Brassica tournefortii*), and cryptantha (*Cryptantha* sp.). The eastern portion of this segment is adjacent to an undisturbed parcel of land consisting of open sand and native desert vegetation. Multiple individuals of Coachella Valley milkvetch (*Astragalus lentiginosus* var. *coachellae*, federally endangered, CNPS 1B.2) were observed in this parcel within the 100-foot buffer of the survey area.

The central segment of the project alignment is located in an industrial area, and is devoid of vegetation aside from ornamental trees that border portions of the access road and a sparse amount of disturbed vegetation that exists within a small unpaved corridor, which is approximately 30 feet wide by 2,300 feet long. Within the unpaved corridor, several common species were observed, including four-wing saltbrush (*Atriplex canescens*), Asian mustard, cryptantha, Russian thistle (*Salsola tragus*), and tiqulia (*Tiquilia* sp.). The southern segment of the alignment intersects the Oasis Country Club, which contains some ornamental grass, shrub and tree species. The eastern end of the alignment extends into the Bermuda Dunes Country Club (Figure 3f) along a paved road, and is devoid of vegetation aside from ornamental grass, shrubs, and trees that border the road. The majority (or central) portion of the alignment is located on Hovley Lane East, a 2-lane paved road that contains ornamental shrub and tree species in planters in the medians and along the edges of the road, including acacias (*Acacia* spp.) and oleander (*Nerium oleander*).

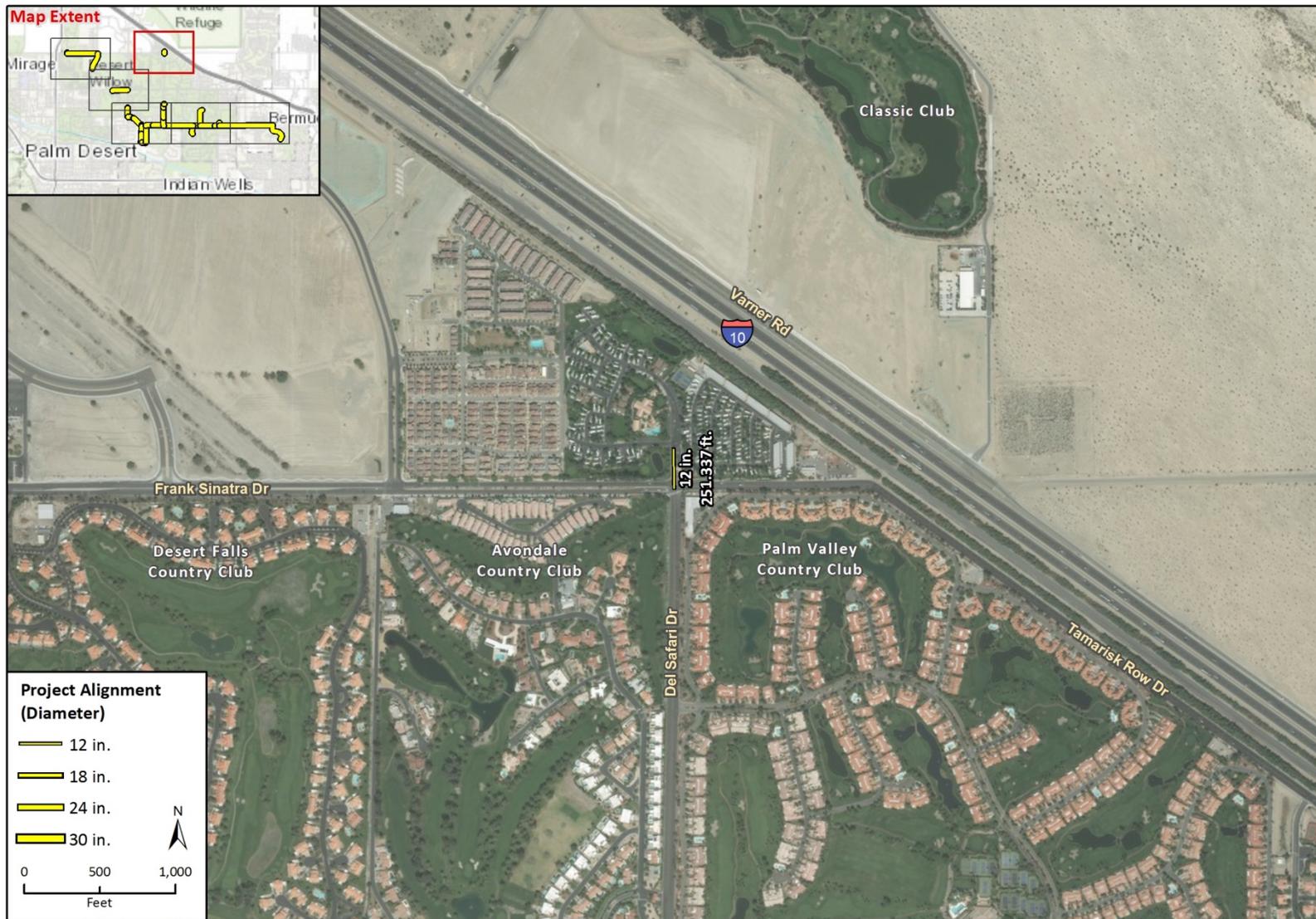
3.3 General Wildlife

The study area and surrounding areas provide habitat suitable for wildlife species that commonly occur in southern California suburban areas. Wildlife observed on or adjacent to the site included bird species commonly encountered in urban areas. Coyote (*Canis latrans*) scat as well as some lizard and small animal burrows were observed within the previously mentioned unpaved corridor. Wildlife not observed but likely to occur include western fence lizard (*Sceloporus occidentalis*), American crow (*Corvus brachyrhynchos*), mourning dove (*Zenaida macroura*), and collared dove (*Streptopelia decaocto*).

Figure 3a Project Alignment



Figure 3b Project Alignment



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Figure 3c Project Alignment

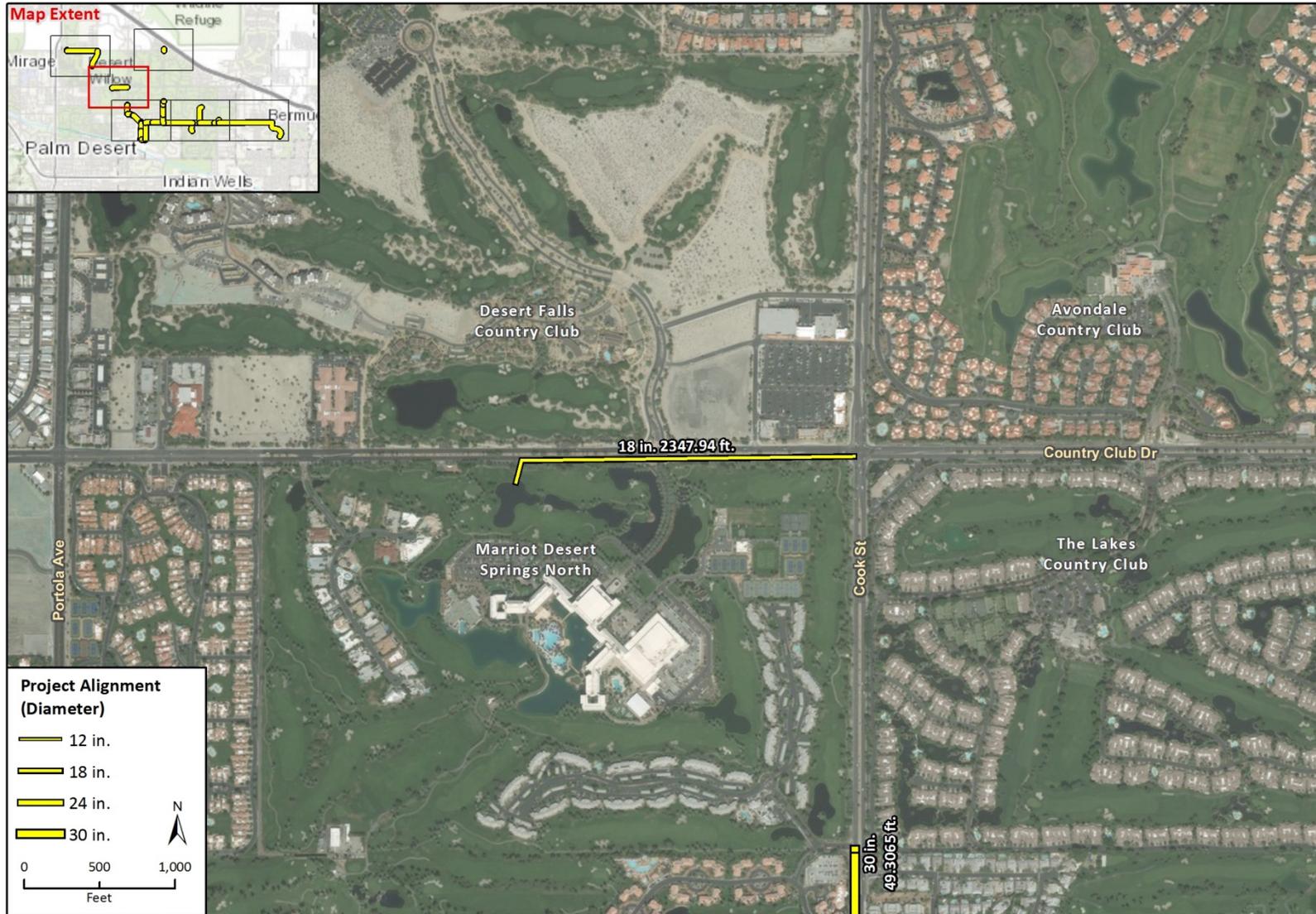


Figure 3d Project Alignment

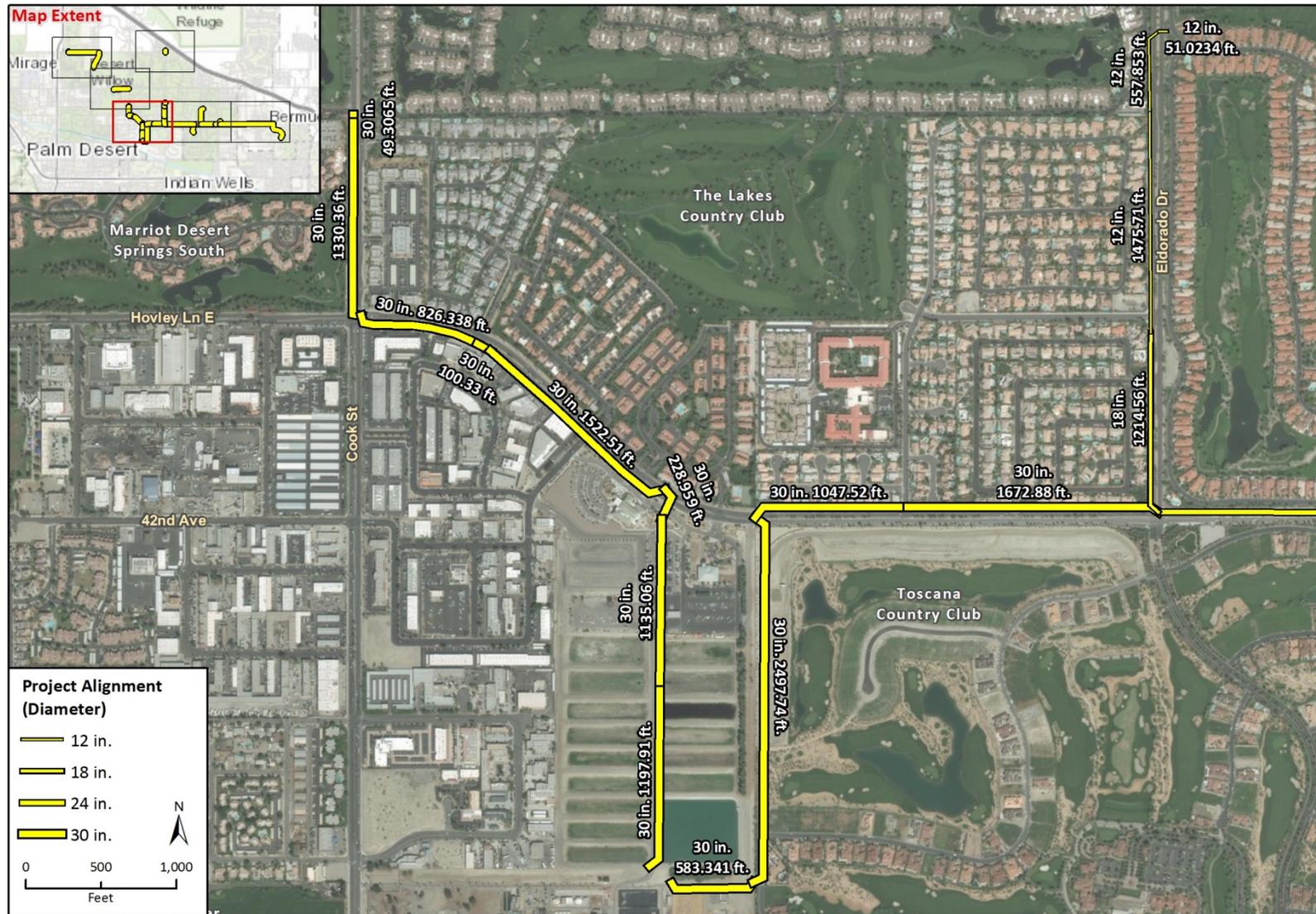


Figure 3e Project Alignment

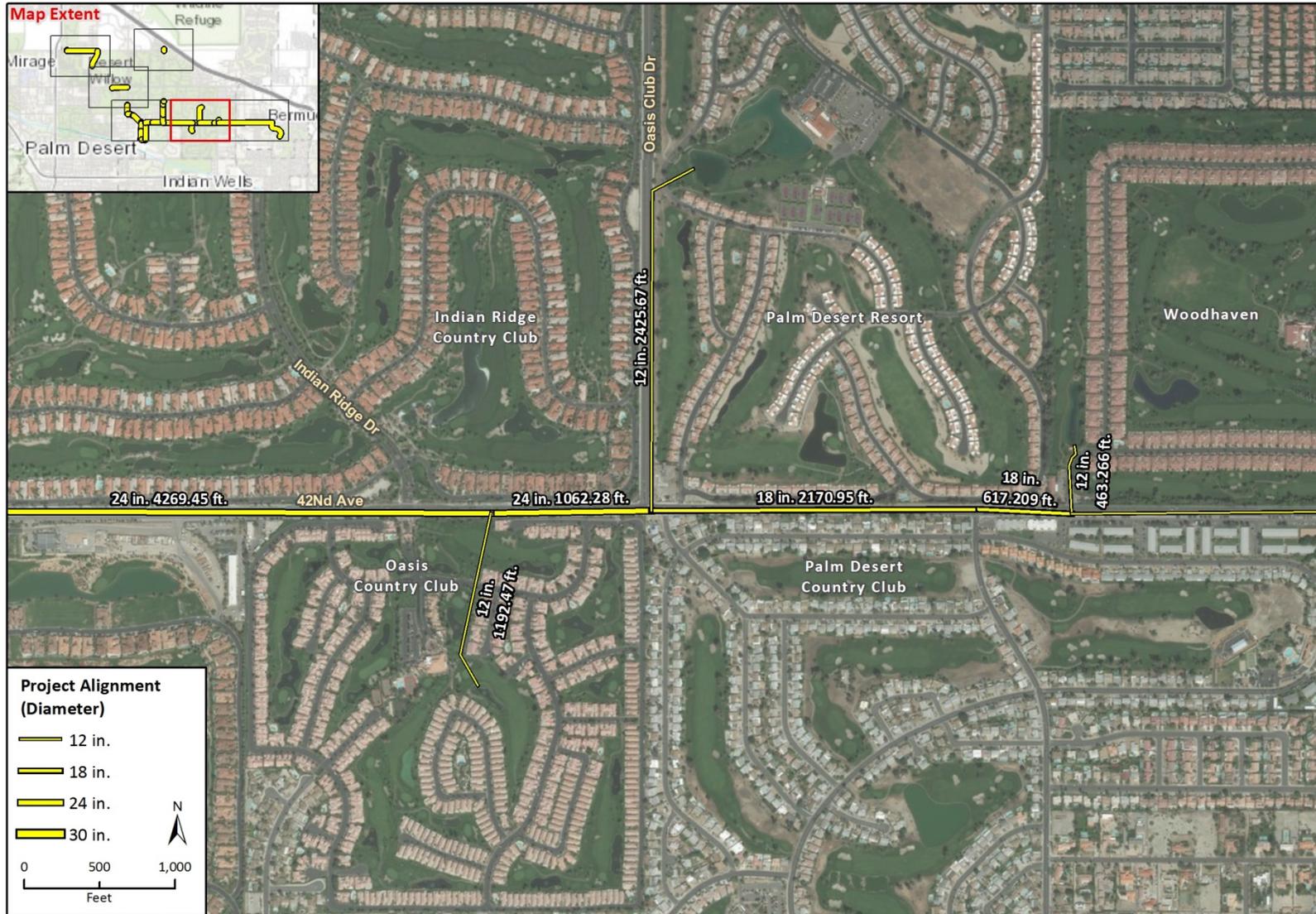


Figure 3f Project Alignment



4 Sensitive Biological Resources

This section discusses the general presence or potential for special status biological resources to occur within the project site. 'Potential to occur' is based on the presence or absence of suitable habitat for each special status species reported in the scientific database queries that were conducted for the proposed project. Several scientific databases were queried, multiple sources of pertinent scientific literature were reviewed, and the technical expertise of Rincon's staff was utilized to determine the habitat requirements, ecology, and distribution of the special status plant species potentially affected by the proposed project. All occurrences of special status species, sensitive vegetation communities, and USFWS designated critical habitats that have been reported by the resource agencies within a five-mile radius of the project site were plotted on a map using geographic information system (GIS) software. As discussed in Section 2.2, an analysis was conducted to determine which of the regionally occurring special status species have potential to occur within the project site (Appendix A). The potential for each special status species to occur in the study area was evaluated according to the following criteria:

- **Not Expected.** Habitat on and adjacent to the site is clearly unsuitable for the species requirements (foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime).
- **Low Potential.** Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site.
- **Moderate Potential.** Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found on the site.
- **High Potential.** All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.
- **Present.** Species is observed on the site or has been recorded (e.g., CNDDDB, other reports) on the site recently (within the last 5 years).

Plant or animal taxa may be considered "sensitive" or as having "special-status" due to declining populations, vulnerability to habitat change, or because they have restricted ranges. Some are listed as threatened or endangered by the USFWS or by the CDFW and are protected by the federal and state ESAs. Others have been identified as sensitive or as special status species by the USFWS, the CDFW, or by private conservation organizations, including the CNPS. Unlisted special-status species do not have formal state or federal status.

For the purpose of this report, special-status species are those plants and animals listed, proposed for listing, or candidates for listing as Threatened or Endangered by the USFWS and National Marine Fisheries Service (NMFS) under the ESA; those listed or candidates for listing as Rare, Threatened, or Endangered by the CDFW under the CESA or Native Plant Protection Act; those recognized as Species of Special Concern (SSC) by the CDFW; and plants occurring on lists 1 and 2 of the CNPS California Rare Plant Rank (CRPR) system, per the following definitions:

- **Rank 1A** = Plants presumed extinct in California;
- **Rank 1B.1** = Rare or endangered in California and elsewhere; seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat);
- **Rank 1B.2** = Rare or endangered in California and elsewhere; fairly endangered in California (20-80% occurrences threatened);
- **Rank 1B.3** = Rare or endangered in California and elsewhere, not very endangered in California (<20% of occurrences threatened or no current threats known);
- **Rank 2** = Rare, threatened or endangered in California, but more common elsewhere.

In addition, special-status species are ranked globally (G) and subnationally (S) 1 through 3 based on NatureServe's (2010) methodologies:

- **G1 or S1** - Critically Imperiled Globally or State-wide
- **G2 or S2** - Imperiled Globally or State-wide
- **G3 or S3** - Vulnerable to extirpation or extinction Globally or State-wide

Plant communities are also considered special-status biological resources if they have limited distributions, have high value for sensitive wildlife, contain special-status species, or are particularly susceptible to disturbance. The CDFW ranks special-status communities as “threatened” or “very threatened” and keeps records of their occurrences in CNDDB.

4.1 Special Status Plant Species

Rincon biologists determined that the majority of the study area does not contain suitable habitat for any special status plant species (Appendix A). While 13 special status plant species have been previously documented within a five-mile radius by the CNDDB, the project site does not contain suitable habitat for 12 of these species based on a variety of factors, including: the disturbance history of the site, lack of suitable soils, inappropriate hydrologic conditions, absence of appropriate vegetation communities, or being outside the elevation range of the species. However, Coachella Valley milk-vetch was observed within the study area southwest of the intersection of Frank Sinatra Drive and Portola Avenue. The species was identified through the use of taxonomic keys in the Jepson Manual, Second Edition (Baldwin et al, 2012).

4.2 Special Status Wildlife Species

Rincon evaluated 13 wildlife species for their potential to occur within the project site (Appendix A). The assessment of the potential for these species to occur is based upon the presence of suitable habitat as identified during surveys and existing knowledge of species occurrences and distributions in the region. The site was determined not to provide suitable habitat for any of the 13 special status wildlife species previously documented within a five-mile radius by the CNDDB. Accordingly, these species do not have the potential to occur within the project site. No special status wildlife species were observed within the project area during the survey effort.

The project site provides general nesting bird habitat. Nesting birds are protected by the MBTA and the CFGC. The project area provides suitable nesting habitat for numerous species of birds, including common raptors such as red-tailed hawks (*Buteo jamaicensis*) and red-shouldered hawk (*Buteo lineatus*). Nesting birds are likely to be present within the project limits during the nesting season.

4.3 Designated Critical Habitat

The project site is not within any federally designated critical habitat areas.

4.4 Sensitive Plant Communities

Plant communities are considered sensitive biological resources if they have limited distributions, have high wildlife value, include sensitive species, or are particularly susceptible to disturbance. CDFW ranks sensitive communities as "threatened" or "very threatened" and keeps records of their occurrences in CNDDDB. Similar to special-status plant and wildlife species, vegetation alliances are ranked 1 through 5 based on NatureServe's (2010) methodology, with those alliances ranked globally (G) or statewide (S) as 1 through 3 considered sensitive.

According to the CNDDDB, the sensitive plant community desert fan palm oasis has been previously documented within a five-mile radius the project site. However, the community has not been previously documented within the project site, and the project site does not contain the elements of the community.

4.5 Jurisdictional Waters and Wetlands

Areas potentially subject to United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW jurisdiction were assessed during the literature review and field visit. Results of the research and field visit determined that no potentially jurisdictional waterways are present within the project site. As described in the Topography and Soils section above, the two soil types found on the project site are not classified as hydric, and are considered well drained. The project area's topography is flat. No evidence of ponding was observed along the alignment, with the exception of constructed golf course ponds. In addition, no obligate (OBL) or facultative wetland (FACW) plant species were observed within the project area. Therefore, the project site does not contain drainages or other features potentially subject to the jurisdiction of USACE, RWQCB, or CDFW.

4.6 Wildlife Movement

Wildlife movement and habitat fragmentation are important issues in assessing impacts to wildlife. Habitat fragmentation occurs when a proposed action results in a single, unified habitat area being divided into two or more areas in such a way that the division isolates the two new areas from each other. Isolation of habitat occurs when wildlife cannot move freely from one portion of the habitat to another or from one habitat type to another, as in the fragmentation of habitats within and around "checkerboard" residential development. Habitat fragmentation also can occur when a portion of one or more habitats is converted into another habitat, as when annual burning converts scrub habitats to grassland habitats.

The project site occurs within the planning boundary of the CVMSHCP area but is not a part of any specific CVMSHCP Conservation Area. The project site lies adjacent to a CVMSHCP Conservation Area (Santa Rosa and San Jacinto Mountains Conservation Area). This Conservation Area provides biological corridor and linkage between the San Jacinto/Santa Rosa Mountains, the San Bernardino Mountains, and Joshua Tree National Park. The proposed project would not affect any Conservation Areas. The proposed project would occur within a previously developed and routinely managed area

and is not anticipated to have an incremental effect on localized and urban adapted wildlife movement or create habitat fragmentation in the region, nor is it anticipated to have significant impact on regional wildlife movement.

4.7 Local Policies and Tree Protection

Riverside County Ordinance 559 protects oak (*Quercus*) woodlands and requires a permit for removal of any native trees on parcels greater than one-half acre in size and above 5,000 feet in elevation. No trees within the study area meet these criteria.

4.8 Conservation Plans

The project site is within the CVMSHCP area (Figure 4). The CVMSHCP is a comprehensive, multi-jurisdictional habitat conservation plan focusing on the conservation of species and their associated habitats in the Coachella Valley region of Riverside County. The overall goal of the CVMSHCP is to maintain and enhance biological diversity and ecosystem processes within the region while allowing for future economic growth (CVAG 2007).

The CVMSHCP covers 27 sensitive plant and wildlife species (CVMSHCP covered species) as well as 27 natural communities. Covered species include both listed and non-listed species that are adequately conserved by the CVMSHCP. The overall provisions for the plan are subdivided according to specific resource conservation goals that have been organized according to geographic areas defined as Conservation Areas. These areas are identified as Core, Essential, or Other Conserved Habitat for sensitive plant, invertebrate, amphibian, reptile, bird, and mammal species, Essential Ecological Process Areas, and Biological Corridors and Linkages.

Each Conservation Area has specific Conservation Objectives that must be satisfied. The CVMSHCP received final approval on October 1, 2008. The approval of the CVMSHCP and execution of the Implementing Agreement (IA) allows signatories of the IA to issue take authorizations for all species covered by the CVMSHCP, including State and federally listed species as well as other identified covered species and/or their habitats.

The CVWD is a signatory to the IA. Each participating city or local jurisdiction within the Coachella Valley will impose a development mitigation fee for new development projects within its jurisdiction. With payment of the mitigation fee and compliance with the requirements of the CVMSHCP, full mitigation in compliance with CEQA, the National Environmental Policy Act (NEPA), CESA, and FESA will be granted.

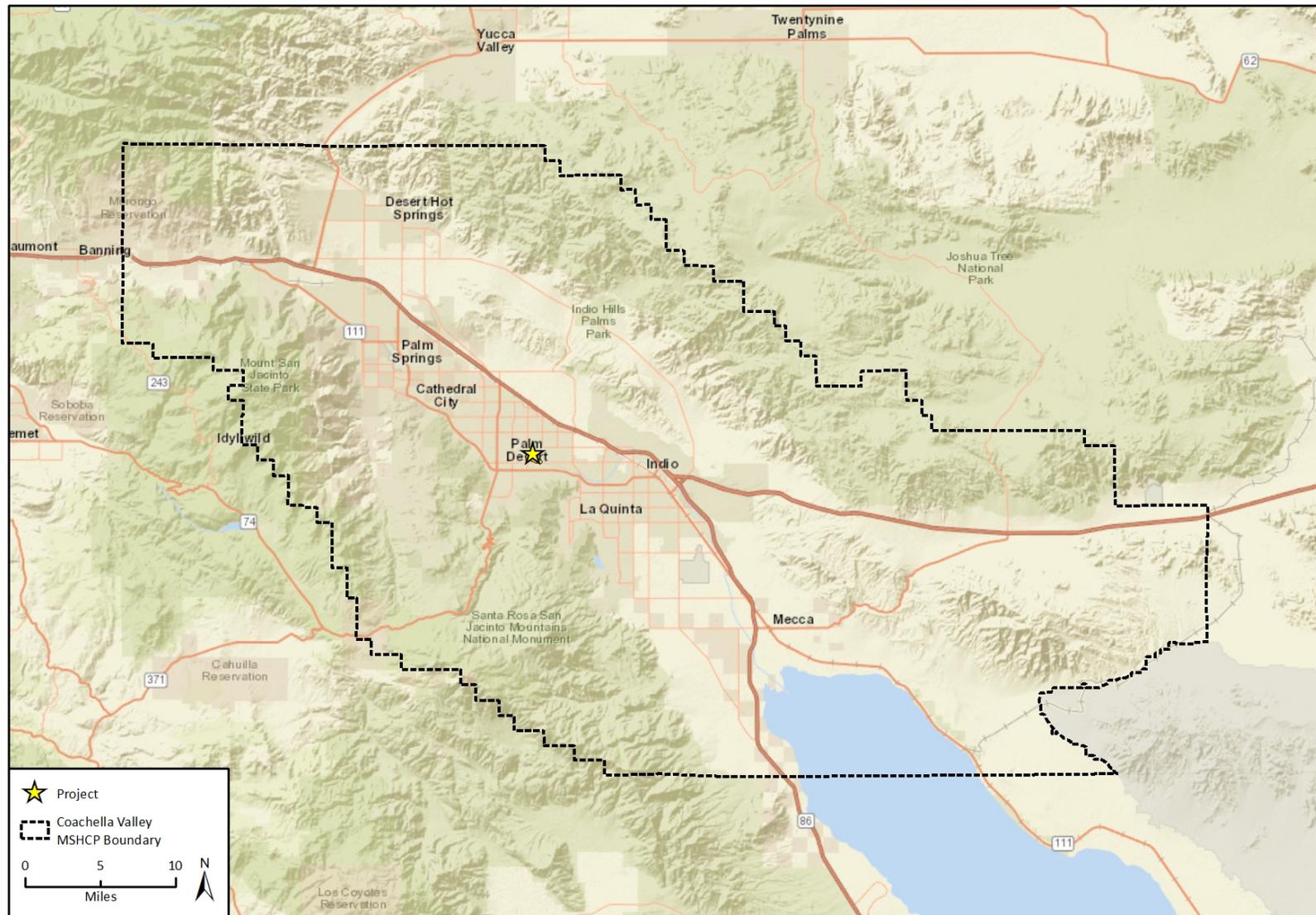
The project site occurs within the planning boundary of the CVMSHCP, but is not a part of any specific CVMSHCP Conservation Area. However, the project site is near the Santa Rosa and San Jacinto Mountains CVMSHCP Conservation Area, which occurs approximately 2 miles to the south (CVAG 2007).

The purpose of CVMSHCP Land Use Adjacency Guidelines is to avoid or minimize indirect effects from development adjacent to or within the Conservation Areas. In this context, “adjacent” means to share a common boundary with any parcel in a designated Conservation Area. Indirect effects include noise, lighting, drainage, intrusion of people, and the introduction of nonnative plants and nonnative predators such as dogs and cats.

The proposed project is within the CVMSHCP plan area, but not within any specific CVMSHCP Conservation Area. It does, however, lie in close proximity to a CVMSHP Conservation Area. The

proposed project would avoid direct and indirect impacts to this CVMSHCP Conservation Areas and will not conflict with the CVMSHCP Conservation Objectives. The project would comply with CVMSHCP Section 4.5 Land Use Adjacency Guidelines to avoid and minimize indirect effects to adjacent CVMSHCP conserved habitats (CVAG 2007). Standards developed in Section 4.5 of the CVMSHCP are for the avoidance or minimization of indirect effects or impacts of development that is proposed for land uses adjacent to (or within) the Conservation Areas. These indirect 'edge effects' may include noise, lighting, drainage, human intrusion, introduction of invasive non-native plants, and non-native predators (e.g., dogs and cats).

Figure 4 Coachella Valley MSHCP



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Additional data provided by Coachella Valley Association of Governments, 2017.

BRAFig 4 Coachella Valley MSHCP

5 Impact Analysis and Mitigation Measures

This section discusses the possible adverse impacts to biological resources that may occur from implementation of the proposed project and suggests appropriate mitigation measures that would reduce those impacts to less than significant levels. The criteria used to evaluate potential project-related impacts to biological resources are presented in Section 2.1.2.

5.1 Special Status Plant Species

While Coachella Valley milk-vetch was observed within the study area, it is located outside the disturbance footprint of the project, within sandy undisturbed land. All trenching near this population will occur within paved areas. Therefore, the proposed project is not expected to result in direct or indirect impacts to special-status plant species. Due to the absence of potential impacts, no measures are recommended.

5.2 Special Status Wildlife Species

The proposed project does not have the potential to result in direct or indirect impacts to special-status wildlife species. Due to the absence of potential impacts, no measures are recommended.

5.3 Nesting Birds

Nesting bird habitat is present within and adjacent to the project area, particularly within landscape trees. Nesting bird species are protected by the MBTA and the CFGC. If initial ground disturbance and vegetation/tree trimming or removal is required during the nesting bird season, the project may impact nesting birds through increased injury or mortality or disruption of normal adult behaviors resulting in the abandonment or harm to eggs and nestlings. Construction occurring within the vicinity of nesting birds may also indirectly impact individuals with construction noise and dust. Measures necessary to reduce these potential impacts to less than significant levels are recommended below.

Mitigation Measure BIO-1: Nesting Birds

Project-related activities should occur outside of the bird breeding season (typically February 1 to August 31) to the extent practicable. If construction must occur within the bird breeding season (February 1 through August 31), then no more than one week prior to initiation of ground disturbance and/or vegetation removal, a nesting bird and raptor pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 300-foot buffer (500-foot for raptors), where feasible. If the proposed project is phased, a subsequent pre-construction nesting bird and raptor survey may be required prior to each phase of construction within the project site.

Pre-construction nesting bird and raptor surveys shall be conducted during the time of day when birds are active and should be of sufficient duration to reliably conclude presence/absence of nesting birds and raptors onsite and within the designated vicinity. A report of the nesting bird and

raptor survey results, if applicable, shall be submitted to the lead agency for review and approval prior to ground and/or vegetation disturbance activities.

If nests are found, their locations shall be flagged. An appropriate avoidance buffer ranging in size from 25 to 50 feet for song birds, and up to 250 feet for raptors depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist with bright orange construction fencing or other suitable flagging. Active nests shall be monitored at a minimum of once per week until it has been determined that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.

Implementation of this recommended measure would reduce potential impacts to nesting birds and raptors to less than significant levels.

5.4 Sensitive Vegetation Communities

The proposed project does not have the potential to result in direct or indirect impacts to sensitive vegetation communities. Due to the absence of potential impacts, no measures are recommended.

5.5 Jurisdictional Waters and Wetlands

The proposed alignment terminates at various artificial ponds within golf courses. These ponds are classified by the USFWS National Wetlands Inventory as excavated, unconsolidated bottom, permanently-flooded palustrine features. The pipelines will be installed below grade within the golf courses, and water will be discharged by an aboveground lake discharge, which will not result in impacts to the ponds. The proposed project does not have the potential to result in direct impacts to jurisdictional areas, wetlands, other waters, or riparian habitats. Due to the absence of potential impacts, no measures are recommended.

5.6 Wildlife Movement

Direct impacts to wildlife movement as a result of project implementation would be less than significant. The completed project will not impede the movement of wildlife through the region. No additional lighting is proposed, and no nocturnal noise generating activities are proposed. Therefore, indirect wildlife movement impacts would be less than significant. Due to the absence of potential impacts, no measures are recommended.

5.7 Local Policies and Tree Protection

The proposed project will not conflict with any local policies or ordinances, due to the CVWD's participation in the CVMSHCP. In addition, no protected trees are proposed for removal.

5.8 Adopted or Approved Plans

As discussed in Section 4.8, the proposed project will not conflict with any local policies or ordinances, due to participation with the CVMSHCP. The proposed project is within the CVMSHCP plan area, but not within any specific CVMSHCP Conservation Area. It does, however, lie in close proximity to a CVMSHP Conservation Area. The proposed project would avoid direct impacts to this CVMSHCP Conservation Areas and will not conflict with the CVMSHCP Conservation Objectives. The project will comply with CVMSHCP Section 4.5 Land Use Adjacency Guidelines to avoid and minimize indirect effects (CVAG 2007).

6 Limitations, Assumptions, and User Reliance

This BRA has been performed in accordance with professionally accepted biological investigation practices conducted at this time and in this geographic area. Botanical field surveys for the presence or absence of certain taxa have been conducted as part of this assessment but were limited by the environmental conditions present at the time of the surveys. In addition, general biological (or protocol) surveys do not guarantee that the organisms are not present and will not be discovered in the future within the site. Our botanical and biological field studies were based on current industry practices, which change over time and may not be applicable in the future. No other guarantees or warranties, expressed or implied, are provided. The findings and opinions conveyed in this report are based on findings derived from review of specified database and literature sources and one site visit. Standard data sources relied upon during the completion of this report, such as the CNDDDB, may vary with regard to accuracy and completeness. In particular, the CNDDDB is compiled from research and observations reported to CDFW that may or may not have been the result of comprehensive or site-specific field surveys. Although Rincon considers the data sources reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used. Furthermore, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary research and analysis.

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Appendix A

Regionally Occurring Special Status Species

Regionally Occurring Special Status Species

<i>Scientific Name</i>	Status Fed/State ESA CRPR,CDFW	Habitat Requirements	Potential for Occurrence/Basis for Determination
Common Name	G-Rank/S-Rank		
Plants			
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand- verbena	None/None G5T2T3/S2 1B.1	Chaparral, coastal scrub, desert dunes. Sandy areas. -60-1570 m.	Not Expected. Site is outside the of the species' known elevation range. Disturbance history of site limits the possibility of occurrence.
<i>Astragalus lentiginosus</i> var. <i>coachellae</i> Coachella Valley milk-vetch	Endangered/None G5T1/S1 1B.2	Sonoran desert scrub, desert dunes. Sandy flats, washes, outwash fans, sometimes on dunes. 35-695 m.	Observed. Observed within dune habitat near intersection of Frank Sinatra Drive and Portola Avenue. Marginally suitable habitat is present within portion of alignment that extends into the Marriott Shadow Ridge Golf Club, but was not observed.
<i>Astragalus sabulonum</i> gravel milk-vetch	None/None G4G5/S2 2B.2	Desert dunes, Mojavean desert scrub, Sonoran desert scrub. Sandy or gravelly flats, washes, and roadsides. -60-885 m.	Not Expected. Limited potential habitat is present within sandy, unpaved portion of project area. However, nearest known population is approximately 4.5 miles east of the project area, and was most recently documented in 1906. Disturbance history of site limits the possibility of occurrence.
<i>Astragalus tricarinatus</i> triple-ribbed milk-vetch	Endangered/None G2/S2 1B.2	Joshua tree woodland, Sonoran desert scrub. Hot, rocky slopes in canyons and along edge of boulder-strewn desert washes, with <i>Larrea</i> and <i>Encelia</i> . 455-1525 m.	Not Expected. Site is outside preferred elevation range. Suitable habitat is not present. Disturbance history of site limits the possibility of occurrence.
<i>Ditaxis claryana</i> glandular ditaxis	None/None G3G4/S2 2B.2	Mojavean desert scrub, Sonoran desert scrub. In dry washes and on rocky hillsides. Sandy soils. 0-465 m.	Not Expected. Limited potential habitat is present within sandy, unpaved portion of project area. However, the nearest confirmed population is approximately 5 miles west of the project area, within the Santa Rosa Mountains. Disturbance history of site limits the possibility of occurrence.
<i>Ditaxis serrata</i> var. <i>californica</i> California ditaxis	None/None G5T3T4/S2? 3.2	Sonoran desert scrub. On sandy washes and alluvial fans of the foothills and lower desert slopes. 30-1000 m.	Not Expected. Suitable habitat elements such as washes or alluvial fans are not present. Disturbance history of site limits the possibility of occurrence.
<i>Euphorbia abramsiana</i> Abrams' spurge	None/None G4/S2 2B.2	Mojavean desert scrub, Sonoran desert scrub. Sandy sites. -45-1445 m.	Not Expected. Limited potential habitat is present within sandy, unpaved portion of project area. However, only known occurrence within five miles of the project area has been extirpated by development. Disturbance history of site limits the possibility of occurrence.
<i>Euphorbia platysperma</i> flat-seeded spurge	None/None G3/S1 1B.2	Mojavean desert scrub, desert dunes. Sandy places or shifting dunes. Possibly a waif in California; more common in Arizona and Mexico. 60-960 m.	Not Expected. Site is outside preferred elevation range. Suitable habitat is not present. Disturbance history of site limits the possibility of occurrence.

Coachella Valley Water District
Non-Potable Water Connections Project

<i>Scientific Name</i> Common Name	Status Fed/State ESA CRPR,CDFW G-Rank/S-Rank	Habitat Requirements	Potential for Occurrence/Basis for Determination
<i>Nemacaulis denudata</i> var. <i>gracilis</i> slender cottonheads	None/None G3G4T3?/S2 2B.2	Coastal dunes, desert dunes, Sonoran desert scrub. In dunes or sand. -50-400 m.	Not Expected. Limited potential habitat is present within sandy, unpaved portion of project area. However, only known occurrences within five miles of the project area have been extirpated by development. Disturbance history of site limits the possibility of occurrence.
<i>Petalonyx linearis</i> narrow-leaf sandpaper-plant	None/None G4/S2S3 2B.3	Mojavean desert scrub, Sonoran desert scrub. Sandy or rocky canyons. -25-1115 m.	Not Expected. Limited potential habitat is present within sandy, unpaved portion of project area. However, nearest known population was documented in 1961 and is approximately five miles southwest of the project site, in the Santa Rosa Mountains. Disturbance history of site limits the possibility of occurrence.
<i>Selaginella eremophila</i> desert spike-moss	None/None G4/S2S3 2B.2	Sonoran desert scrub, chaparral. Shaded sites, gravelly soils; crevices or among rocks. 200-900 m.	Not Expected. Site is outside preferred elevation range. Suitable habitat is not present. Disturbance history of site limits the possibility of occurrence.
<i>Stemodia durantifolia</i> purple stemodia	None/None G5/S2 2B.1	Sonoran desert scrub. Sandy soils; mesic sites. 35-385 m.	Not Expected. Suitable habitat elements mesic sites are not present. Disturbance history of site limits the possibility of occurrence.
<i>Xylorhiza cognata</i> Mecca-aster	None/None G2/S2 1B.2	Sonoran desert scrub. Steep canyon slopes, in sandstone and clay. 20-305 m.	Not Expected. Suitable habitat elements such as steep canyon slopes are not present. Disturbance history of site limits the possibility of occurrence.
Plant Communities			
Desert fan palm oasis	G3/S3.2	Tree community associated with fault lines where hard rock forces water from underground to the surface. Dominant tree species is California fan palm (<i>Washingtonia filifera</i>).	Not Expected. Diagnostic species are not present onsite.
Insects			
<i>Dinacoma caseyi</i> Casey's June beetle	Endangered/ None G1/S1	Found only in two populations in a small area of southern Palm Springs. Found in sandy soils; the females live underground and only come to the ground surface to mate.	Not Expected. Nearby occurrence recorded in CNDDDB is historical, and the species is not considered extant in this area. Disturbance history of the site limits the possibility of occurrence.
Fish			
<i>Cyprinodon macularius</i> desert pupfish	Endangered/ Endangered G1/S1	Desert ponds, springs, marshes and streams in Southern California. Can live in salinities from freshwater to 68 ppt; can withstand temps from 9 - 45 C and dissolved oxygen levels down to 0.1 ppm.	Not Expected. Required aquatic habitat is not present onsite.

<i>Scientific Name</i> Common Name	Status Fed/State ESA CRPR,CDFW G-Rank/S-Rank	Habitat Requirements	Potential for Occurrence/Basis for Determination
Reptiles			
<i>Gopherus agassizii</i> desert tortoise	Threatened/ Threatened G3/S2S3	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat. Require friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Not Expected. Required desert habitat is not present onsite.
<i>Phrynosoma mcallii</i> flat-tailed horned lizard	None/None G3/S2 SSC	Restricted to desert washes and desert flats in central Riverside, eastern San Diego, and Imperial counties. Critical habitat element is fine sand, into which lizards burrow to avoid temperature extremes; requires vegetative cover and ants.	Not Expected. Species is highly dependent on fine sand, which is absent from project site. The site's disturbance history limits the potential for occurrence.
<i>Uma inornata</i> Coachella Valley fringe-toed lizard	Threatened/ Endangered G1Q/S1	Limited to sandy areas in the Coachella Valley, Riverside County. Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely-spaced desert shrubs.	Not Expected. Species is highly dependent on fine sand, which is absent from project site. The site's disturbance history limits the potential for occurrence.
Birds			
<i>Athene cunicularia</i> burrowing owl	None/None G4/S3 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	Endangered/ Endangered G5T2/S1	Riparian woodlands in Southern California.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Falco mexicanus</i> prairie falcon	None/None G5/S4 WL	Inhabits dry, open terrain, either level or hilly. Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Lanius ludovicianus</i> loggerhead shrike	None/None G4/S4 SSC	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub & washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Polioptila melanura</i> black-tailed gnatcatcher	None/None G5/S3S4 WL	Primarily inhabits wooded desert wash habitats; also occurs in desert scrub habitat, especially in winter. Nests in desert washes containing mesquite, palo verde, ironwood, acacia; absent from areas where salt cedar introduced.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Pyrocephalus rubinus</i> vermillion flycatcher	None/None G5/S2S3 SSC	During nesting, inhabits desert riparian adjacent to irrigated fields, irrigation ditches, pastures, and other open, mesic areas. Nest in cottonwood, willow, mesquite, and other large desert riparian trees.	Not Expected. Elements of suitable habitat required for nesting are not present.

Coachella Valley Water District
Non-Potable Water Connections Project

<i>Scientific Name</i> Common Name	Status Fed/State ESA CRPR,CDFW G-Rank/S-Rank	Habitat Requirements	Potential for Occurrence/Basis for Determination
<i>Toxostoma crissale</i> Crissal thrasher	None/None G5/S3 SSC	Resident of southeastern deserts in desert riparian and desert wash habitats. Nests in dense vegetation along streams/washes; mesquite, screwbean mesquite, ironwood, catclaw, acacia, arrowweed, willow.	Not Expected. Elements of suitable habitat required for nesting are not present.
<i>Toxostoma lecontei</i> Le Conte's thrasher	None/None G4/S3 SSC	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats. Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	Not Expected. Elements of suitable habitat required for nesting are not present.

Regional Vicinity refers to within a 5 mile radius of site.

BCC = USFWS Bird of Conservation Concern

FC = Federal Candidate Species

FE = Federally Endangered

FP = CDFW Fully Protected

FT = Federally Threatened

SE = State Endangered

ST = State Threatened

SR = State Rare

SSC = CDFW Species of Special Concern

CRPR (CNPS California Rare Plant Rank):

1A=Presumed Extinct in California

1B=Rare, Threatened, or Endangered in California and elsewhere

2=Rare, Threatened, or Endangered in California, but more common elsewhere

3=Need more information (a Review List)

4=Plants of Limited Distribution (a Watch List)

CRPR Threat Code Extension

.1=Seriously endangered in California (> 80% of occurrences threatened/high degree and immediacy of threat)

.2=Fairly endangered in California (20-80% occurrences threatened)

.3=Not very endangered in California (<20% of occurrences threatened)

G-Rank/S-Rank = Global Rank and State Rank as per NatureServe and CDFW's CNDDDB RareFind 5

Appendix B

Representative Site Photographs



Photograph 1. At south-central extent of proposed alignment within CVWD treatment plant, facing south



Photograph 2. At south-central extent of proposed alignment within CVWD treatment plant, facing north



Photograph 3. At southwest most corner of alignment, facing east



Photograph 4. Along dirt path at proposed alignment node, facing north



Photograph 5. At proposed alignment terminal at Oasis Country Club, facing southwest



Photograph 6. At proposed alignment terminal at Oasis Country Club, facing northwest



Photograph 7. At entrance to Oasis Country Club along proposed alignment, facing southwest



Photograph 8. At proposed alignment terminal at Palm Desert Resort, facing northeast



Photograph 9. At proposed alignment terminal at Palm Desert Resort, facing south along Oasis Club Drive



Photograph 10. At proposed alignment terminal at Woodhaven Country Club, facing north



Photograph 11. At proposed alignment terminal at Woodhaven Country Club, facing southwest



Photograph 12. At proposed alignment terminal at Woodhaven Country Club, facing south



Photograph 13. Proposed alignment along Hovley Lane, facing east



Photograph 14. Proposed alignment along Hovley Lane at El Dorado Drive, facing west



Photograph 15. Proposed alignment along El Dorado Drive at Hovley Lane, facing north



Photograph 16. Proposed alignment along Hovley Lane at El Dorado Drive, facing east



Photograph 17. Proposed alignment along El Dorado Drive at northern alignment terminal, facing south



Photograph 18. Proposed alignment along Hovley Lane, facing east



Photograph 19. Proposed alignment along Hovley Lane at Oasis Club Drive, facing west



Photograph 20. Proposed alignment along Hovley Lane at Oasis Club Drive, facing north



Photograph 21. Proposed alignment along Hovley Lane at Oasis Club Drive, facing east



Photograph 22. Proposed alignment at northwestern extent within Marriott Shadow Ridge Golf Club, facing north



Photograph 23. Proposed alignment at corner of Frank Sinatra Drive and Portola Avenue, facing south



Photograph 24. Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *coachellae*)

Appendix C

Plant and Wildlife Species Observed Onsite

Plant and Wildlife Species Observed Onsite

Scientific Name	Common Name	Origin
Plants		
<i>Abronia villosa</i> var. <i>villosa</i>	hairy sand verbena	Native
<i>Acacia</i> spp.	acacia	Non-native
<i>Agave</i> spp.	agave	Non-native
<i>Ambrosia dumosa</i>	burrobush	Native
<i>Astragalus lentiginosus</i> var. <i>coachellae</i>	Coachella Valley milkvetch	Native
<i>Atriplex canescens</i>	fourwing saltbush	Native
<i>Brassica tournefortii</i>	Asian mustard	Non-native
<i>Chilopsis linearis</i>	desert willow	Native
<i>Cryptantha</i> sp.	cryptantha	Native
<i>Encelia actoni</i>	Acton encelia	Native
<i>Eremothera boothii</i>	Booth's sun cup	Native
<i>Eucalyptus sideroxylon</i>	red ironbark	Non-native
<i>Hirschfeldia incana</i>	short podded mustard	Non-native
<i>Malva parviflora</i>	cheeseweed	Non-native
<i>Medicago polymorpha</i>	bur clover	Non-native
<i>Mentzelia</i> sp.	blazing star	Native
<i>Nerium oleander</i>	oleander	Non-native
<i>Pennisetum setaceum</i>	fountain grass	Non-native
<i>Pluchea sericea</i>	arrowweed	Native
<i>Polygonum lalathifolium</i>	knotweed	Non-native
<i>Salsola tragus</i>	Russian thistle	Non-native
<i>Schinus molle</i>	pepper tree	Non-native
<i>Schismus arabicus</i>	Arabian schismus	Non-native
<i>Sisymbrium irio</i>	London rocket	Non-native
Tamarix sp.	tamarisk	Non-native
<i>Tiquilia</i> sp.	tiquilia	Native
<i>Washingtonia robusta</i>	Mexican fan palm	Non-native
<i>Yucca</i> spp.	yucca	Non-native
Wildlife		
Birds		
<i>Ardea alba</i>	great egret	Native
<i>Corvus brachyrhynchos</i>	American crow	Native
<i>Geococcyx californianus</i>	greater roadrunner	Native
<i>Larus occidentalis</i>	western gull	Native
<i>Sturnella neglecta</i>	western meadowlark	Native
Mammals		
<i>Canis latrans</i>	coyote	Native

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Appendix D

Cultural Resources Technical Report



Coachella Valley Water District Non-Potable Connections Project

Cultural Resources Study

prepared for

Coachella Valley Water District

75-515 Hovley Lane East

Palm Desert, California 92211

prepared by

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May 2018

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Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD), to perform a cultural resources assessment for the CVWD Non-Potable Water (NPW) Connections Project (project). The project is situated in central Riverside County, in the West Valley portion of the Coachella Valley in Palm Desert, California. The Area of Potential Effects (APE) includes property in CVWD's existing Water Reclamation Plant No. 10 (WRP10), located at 43-000 Cook Street, and approximately 50,000 linear feet (LF) of non-potable pipeline within Palm Desert, unincorporated Riverside County public right-of-way, and on private property owned by proposed NPW users. The proposed project involves the construction and operation of NPW connections that would provide irrigation water for seven local golf courses, one RV resort, and one planned future development, and replacement of an existing pump station for a total pumping capacity of approximately 24,000 gallons per minute (gpm), split between 12,000 gpm for the NPW low pressure system and 12,000 gpm for the NPW high pressure system, and a standby pumping capacity of 8,000 gpm.

This study includes the results of a cultural resources records search, Native American scoping, local historical group consultation, a field survey of the APE, and the preparation of this report following the California Office of Historic Preservation's Archaeology Resources Management Report: Recommended Contents and Format and in accordance with the State Water Resources Control Board's guidelines for "California Environmental Quality Act (CEQA)-Plus" cultural resources studies. Due to an update in the project APE, cultural resources studies including the records search, Native American scoping, and field survey were undertaken on two separate occasions. This study has been completed in accordance with the requirements of a CEQA-Plus investigation, which includes an evaluation of project impacts under CEQA, Section 106 of the National Historic Preservation Act (NHPA), and the National Environmental Policy Act in the case that a federal nexus (i.e., federal funding and/or permitting) is established during the course of the project.

Based on the results of the records search, local historical group consultation, Sacred Lands File search through the Native American Heritage Commission (NAHC), and field survey, no specific cultural resources (prehistoric or historic) were identified within the project APE. Follow-up correspondence with NAHC-listed contacts did indicate that the general vicinity of the APE is within the Traditional Use Areas for multiple Native American groups. Therefore, Rincon recommends a finding of ***less than significant impact to historical resources*** under CEQA and ***no effect to historic properties*** under Section 106 of NHPA. Rincon recommends the following measure as a standard best management practice in the event of an unanticipated discovery of cultural resources during project construction in order to further reduce the already less than significant impact under CEQA.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be significant under CEQA and/or NHPA, additional work such as data recovery excavation and Native American consultation and archaeological monitoring may be warranted to mitigate any significant impacts.

The discovery of human remains is always a possibility during ground disturbing activities. Below is a summary of existing regulations concerning the unanticipated discovery of human remains.

Unanticipated Discovery of Human Remains

If human remains are found, existing regulations outlined in the State of California Health and Safety Code Section 7050.5 state that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the NAHC, which will determine and notify a most likely descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of being granted access and provide recommendations as to the treatment of the remains to the landowner.

1 Introduction

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to perform a Phase I cultural resources study for the CVWD 2017/2018 Non-Potable Water (NPW) Connections Project in Palm Desert, Riverside County, California. The purpose of this report is to document the tasks conducted by Rincon; specifically, a cultural resources records search, Native American scoping, field survey, local historical group consultation, and the preparation of this technical report according to the Archaeological Resources Management Report (ARMR) guidelines and in compliance with the California Environmental Quality Act (CEQA), Section 106 of the National Historic Preservation Act (NHPA), and the National Environmental Policy Act.

1.1 Project Description

The proposed project involves the construction and operation of approximately 9.5 miles of NPW pipeline segments and connections to provide irrigation water for seven local golf courses, one RV resort, one planned future development, and replacement of an existing pump station for a total pumping capacity of approximately 24,000 gpm, split between 12,000 gpm for the NPW low pressure system and 12,000 gpm for the NPW high pressure system, and a standby pumping capacity of 8,000 gpm. The proposed project would install approximately 50,000 linear feet (LF) of non-potable pipeline within public right-of-way and private lands in Palm Desert and unincorporated Bermuda Dunes. The new pipelines would increase the NPW distribution network from approximately 26.6 miles to 36.1 miles.

The new NPW users to be served under the proposed project include six golf courses: Marriott Shadow Ridge, Marriott Desert Springs Resort (North), Oasis Country Club, Palm Desert Resort Country Club, Woodhaven Country Club, Bermuda Dunes Country Club, one RV resort: Emerald Desert RV Resort, and one planned future development near Rancho Portola. A ninth terminal will provide increased capacity to an existing NPW user: Indian Ridge Country Club. Construction of the NPW connections will involve removal of existing ground cover, open trenching along the pipeline alignment, placement of bedding within the trench, placement of NPW pipeline, backfilling of trenches and soil compaction, and installation of meters and motor actuated valves.

The proposed project would deliver a blend of NPW from CVWD's existing Water Reclamation Plant No. 10 (WRP10) facility and Colorado River water from the Mid-Valley Pipeline (MVP) to provide irrigation water.

1.2 Area of Potential Effects

The area of potential effects (APE) of a project is defined in 36 Code of Federal Regulations (CFR) 800.16(d) as the "geographic area or areas within which a project may directly or indirectly cause changes in the character or use of historic properties if any such property exists." The APE generally depicts all areas that are expected to be affected by the proposed undertaking, including staging and construction areas. For the purposes of the current project, the APE depicts both the direct APE and the indirect APE (visual or auditory effects). The direct APE footprint includes approximately 9.4 miles of non-potable pipeline within the city of Palm Desert and the unincorporated community of

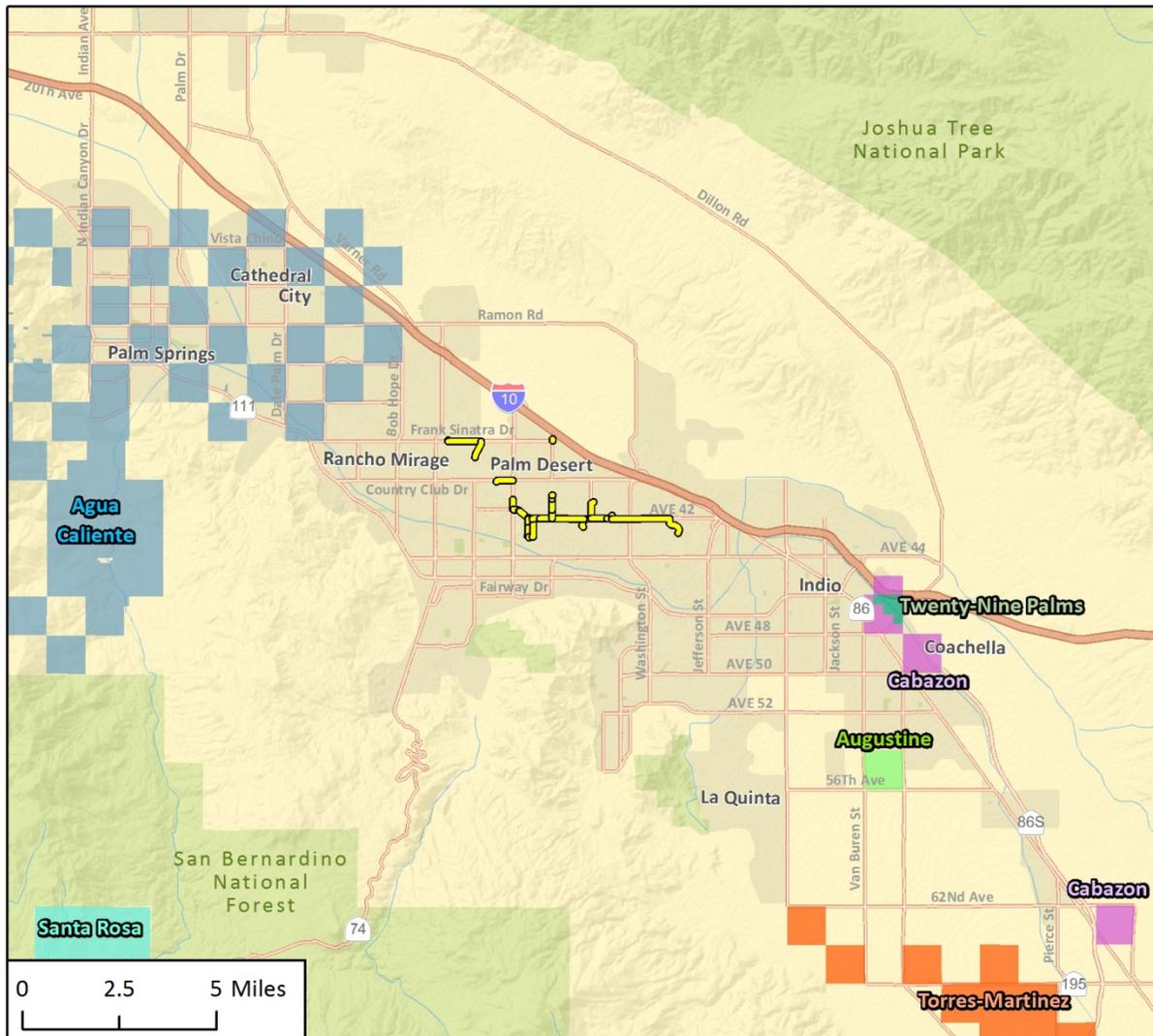
Bermuda Dunes within Riverside County and on private property owned by seven golf courses, one RV resort, and one planned future development. The APE must additionally be considered as a three-dimensional space, and includes any ground disturbance associated with the project. Ground disturbance for the pipeline trench is expected to be 5 feet (1.5 meters) wide and reach a maximum vertical depth of 8 feet (2.4 meters) below ground surface. Upon completion of the undertaking, the APE will be returned to its preconstruction conditions with no permanent or long term effects to the APE or the surrounding environment. Therefore, the APE for the current undertaking is limited to the construction footprint.

The APE is located within Township 04S, Range 06E, Section 31, 32, 33, 34, 35; Township 05S, Range 06E, Section 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16; Township 05S, Range 06E, Section 7, 8, 17, 18, of the United States Geological Survey (USGS) *Cathedral City, Myoma, and La Quinta, CA* 7.5-minute quadrangles (Figure 1). The APE begins at the WRP10 facility and extends to eight endpoints (Figure 2).

1.3 Personnel

Rincon Archaeological Resources Program Manager and Principal Investigator Benjamin Vargas, M.A., Registered Professional Archaeologist (RPA) managed this cultural resources study. Mr. Vargas meets the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historic archaeology (National Park Service 1983). Archaeologist Lindsay Porras, M.A., RPA conducted the Native American outreach for the Section 106 component of the project, performed the cultural resources records search and historic imagery review, completed the field survey, and is the primary author of this report (Appendix A). Architectural Historian Susan Zamudio-Gurrola, M.H.P., contacted local historical groups, and Geographic Information Systems Analyst Jonathon Schuhrke prepared the figures found in this report. Principal Jennifer Haddow, Ph.D., reviewed this report for quality control.

Figure 1 Project Vicinity



Basemap data from Esri and its licensors, 2017.
 Tribal Lands data from Riverside County, 2018.

-  Tribal Lands
-  Project Alignment
-  Project Location

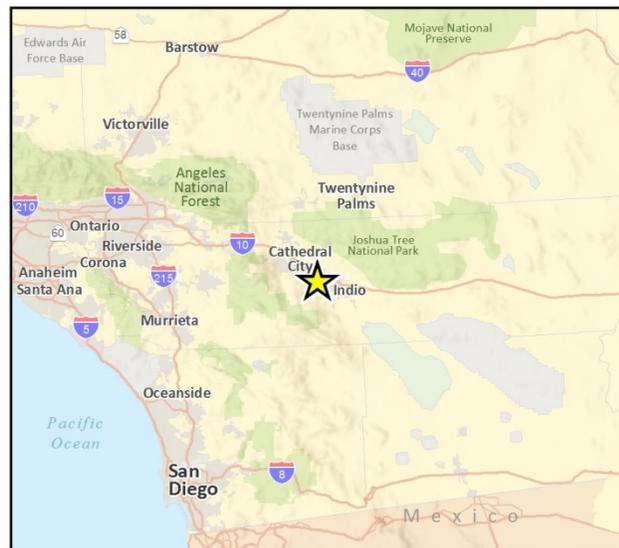


Fig X Tribal Lands

Figure 2 Area of Potential Effect

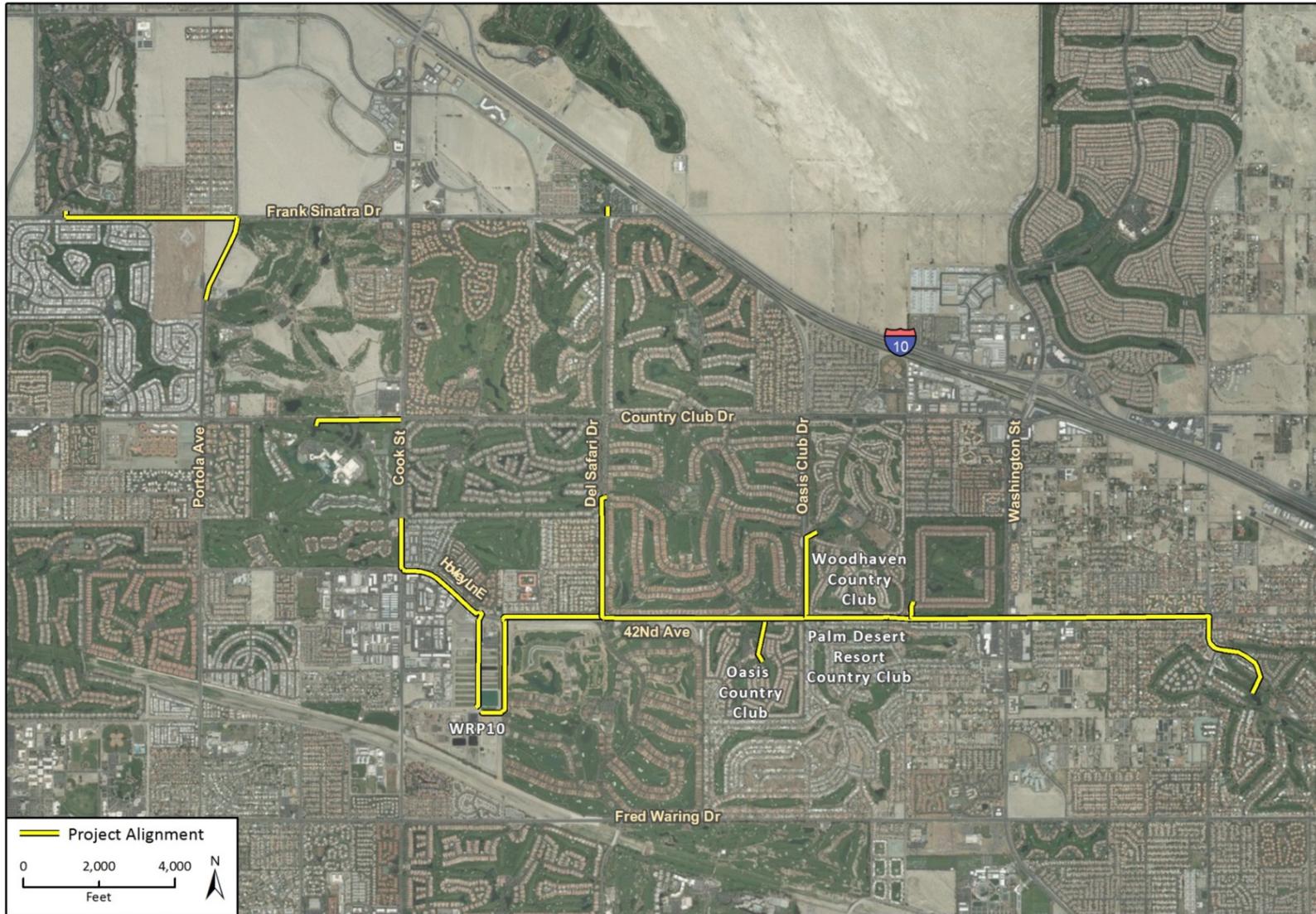


Fig. 2 Project Site Vicinity 20180212

2 Regulatory Setting

This section includes a discussion of the applicable state and local laws, ordinances, regulations, and standards governing cultural resources that should be adhered to before and during implementation of the proposed project.

2.1 CEQA-Plus Studies

A CEQA-Plus study includes compliance with both state and federal regulations in the case that a federal nexus is established during the course of project execution. A federal nexus may be established with the receipt of federal funding and/or permitting. Compliance with both regulations allows the lead agency to apply the results of this technical study to both levels of regulation should a nexus be established at a later time.

2.2 Federal Regulations

2.2.1 National Historic Preservation Act

The proposed project is assumed subject to Section 106 of NHPA. The definition of a federal undertaking in 36 CFR 800.16(y) includes projects requiring a federal permit, license, or approval. Cultural resources are considered during federal undertakings chiefly under Section 106 of NHPA of 1966 (as amended) through one of its implementing regulations, 36 CFR 800 (Protection of Historic Properties), as well as the National Environmental Policy Act. Properties of traditional, religious, and cultural importance to Native Americans are considered under both Section 101 (d)(6)(A) and Section 106 36 CFR 800.3-800.10 of NHPA. Other federal laws include the Archaeological Data Preservation Act of 1974, the American Indian Religious Freedom Act of 1978, the Archaeological Resources Protection Act of 1979, and the Native American Graves Protection and Repatriation Act of 1989, among others.

Section 106 of NHPA (16 United States Code 470f) requires federal agencies to take into account the effects of their undertakings on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register of Historic Places (NRHP) and to afford the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings (36 CFR 800.1). Under Section 106, the significance of any adversely affected historic property is assessed and mitigation measures are proposed to reduce any impacts to an acceptable level. Historic properties are those significant cultural resources that are listed in or are eligible for listing in the NRHP per the criteria listed below (36 CFR 60.4):

The quality of significance in American, state, and local history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and meet one or more of the following criteria:

- a. Are associated with events that have made a significant contribution to the broad patterns of our history
- b. Are associated with the lives of persons significant in our past

- c. Embody the distinctive characteristics of a type, period, or method of installation, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction
- d. Have yielded, or may be likely to yield, information important in prehistory or history

2.3 State Regulations

2.3.1 California Environmental Quality Act

CEQA requires a lead agency to determine whether a project may have a significant effect on historical resources (Public Resources Code [PRC], Section 21084.1) or tribal cultural resources (PRC Section 21074[a][1][A]-[B]). A historical resource is a resource listed, or determined to be eligible for listing in the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or an object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be *historically significant* (State CEQA Guidelines, Section 15064.5[a][1-3]).

A resource shall be considered *historically significant* if it meets any of the following criteria:

- 1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage
- 2) Is associated with the lives of persons important to our past
- 3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values
- 4) Has yielded, or may be likely to yield, information important in prehistory or history

In addition, if it can be demonstrated that a project will cause damage to a *unique archaeological resource*, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a], [b]).

PRC Section 21083.2(g) defines a *unique archaeological resource* as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- 1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information
- 2) Has a special and particular quality such as being the oldest of its type or the best available example of its type
- 3) Is directly associated with a scientifically recognized important prehistoric or historic event or person

Assembly Bill 52

As of July 1, 2015, California Assembly Bill 52 (AB 52) was enacted and expands CEQA by defining a new resource category called *Tribal Cultural Resources* (TCRs). AB 52 establishes that "a project with an effect that may cause a substantial adverse change in the significance of a TCR is a project that may have a significant effect on the environment" (PRC Section 21084.2). It further states that the

lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a TCR, when feasible (PRC Section 21084.3).

PRC Section 21074(a)(1)(A) and (B) defines TCRs as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe” and meets either of the following criteria:

- 1) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources, as defined in Public Resources Code Section 5020.1(k)
- 2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe

AB 52 also establishes a formal consultation process for California tribes regarding TCRs. The consultation process must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to “begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.” Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

3 Natural and Cultural Setting

3.1 Natural Setting

The APE is located in the Coachella Valley within the Colorado Desert region of the Lower Sonoran Desert. Elevations in this desert region exceed 4,000 feet (1,219 meters) above mean sea level in the Jacumba Mountains and dip to 287 feet (87 meters) below mean sea level at the base of the Salton Trough. The elevation of the APE ranges from approximately 140 to 200 feet (43 to 61 meters) above mean sea level. The Salton Trough is the central feature within this desert region and is part of the seismically active Gulf of California Rift Zone. Fresh water and marine events of inundation and drying have occurred for millennia resulting in the accumulation of some 20,000 feet (6,096 meters) of marine and non-marine sediments (Chandler 2003). Prehistorically, flood waters reaching the Salton Trough would persist until approximately 42 feet (13 meters) above mean sea level whereby the water would crest the Cerro Prieto delta, ultimately discharging into the Gulf of California.

The current climate is characterized by dry conditions, unpredictable rainfall, and excessive summer temperatures. Plant communities vary depending on elevation, with creosote plants dominating the valley floors and transitioning into riparian zones near dependable water sources.

Land uses in the vicinity of the APE and surrounding area are predominantly residential and recreational. Vegetation includes landscaped planter beds containing non-native ornamental species of trees, shrubs, and grasses. These plantings exist throughout the APE, bordering sidewalks along public roadways, and constitute the biologic setting of the private residences and golf course facilities.

3.2 Cultural Setting

The cultural setting for the project vicinity is broadly presented within three overviews: Prehistoric, Ethnographic, and Historic. The Prehistoric and Historic overviews describe human occupation before and after European contact, while the Ethnographic Overview provides a synchronic “snapshot” of traditional Native American lifeways as described by European observers prior to assimilative actions.

3.2.1 Prehistoric Setting

California prehistory for the project area is commonly divided into four broad temporal periods. These include the Paleo-Indian Period (ca. 10,000–6000 B.C.), Early Archaic Period (6000–2000 B.C.), Late Archaic Period (2000 B.C.–A.D. 500), and Late Prehistoric Period (A.D. 500–Historic Contact). The Late Prehistoric Period is further divided into the Patayan I (ca. A.D. 800 – 1050), Patayan II (ca. A.D. 950 – 1500), and Patayan III (A.D. 1500 to European contact).

The project lies in what generally is described as the Colorado Desert region (Schaefer and Laylander 2007:247). Though it shares similarities with the adjacent Mojave and Sonoran deserts, the Colorado Desert possesses a unique and distinct natural and cultural history (Schaefer and Laylander 2007:247). The Colorado Desert is bordered on the west by the Peninsular Range and the Pacific

Coastal Plain, the Colorado River to the east, the Mojave Desert to the north, and the Gulf of California to the south. This part of the Colorado Desert is the Salton Trough, which lies primarily within today's Imperial, Riverside, and San Diego counties.

Although now an arid region, a series of lakes collectively referred to as Lake Cahuilla (also known as Lake LeConte and Blake's Sea) occupied much of the Salton Trough throughout the Holocene. Lake Cahuilla was formed by the western diversion of the Colorado River into the Salton Trough when natural sediment barriers blocked the river's flow south to the Gulf of California. Lake Cahuilla's maximum shoreline is marked by extensive beach formations at 42 feet (13 meters) above mean sea level (Schaefer n.d.). Radiocarbon dates from archaeological sites and marsh deposits indicate at least three episodes of infilling and recession occurred between A.D. 1200 and the late 1600s (Buckles and Krantz 2005; Laylander 1995; Schaefer and Laylander 2007; Waters 1983). An infilling occurred in the 1200s followed by a recession in the late 1300s or early 1400s. Another complete infilling took place in the 1400s, which receded in the late 1400s or early 1500s. A final infilling appears to have occurred in the 1600s, followed by the last recession ending after A.D. 1700. It is possible that additional infillings occurred prior to A.D. 1200.

The lake experienced many partial infillings and fluctuations in level over time (Schaefer n.d.; Laylander 2006). When the lake was present, freshwater fish, shellfish, migratory birds, and riparian flora and fauna associated with the lake and shoreline may have been important factors in human subsistence and settlement patterns during most of the Prehistoric Period. Some scholars argue that the desiccation of the lake caused permanent shoreline populations to move out of the valley and into the mountains to the west and the Colorado River to the east. Others argue that the valley was seasonally inhabited by small mobile groups due to unstable seasonal fluctuations in lake levels. Once the lake dried up, these groups would have altered their seasonal rounds to exclude Lake Cahuilla or to focus on newly exposed resources on the lakebed (Schaefer n.d.).

The recession of Lake Cahuilla would have been accompanied by increasing salinity levels. This would have impoverished and eliminated the freshwater fauna and flora living in and around the lake. It is possible, however, that the lake could have continued to be exploitable by humans at least as low as 180 feet (55 meters) below mean sea level (Laylander 2006).

3.2.1.1 *Paleo-Indian Period (ca. 10000 – 6000 B.C.)*

In contrast to the dry climate of today, California's desert regions during the late Pleistocene and the early Holocene contained a series of large, pluvial lakes. Archaeological evidence suggests that early Holocene hunter-gathers of the desert region were well adapted to the wetland environments supported by these lakes. Sites were typically located on or near the shores of former pluvial lakes and marshes, and have artifact assemblages marked by their diversity of flaked-stone artifacts. Such sites, however, have not been documented for the Colorado Desert region, including for the nearly 10,000-year-old pluvial shoreline of Lake Cahuilla (Moratto 1984:96; Schaefer and Laylander 2007:247).

The San Dieguito Complex is a well-defined expression or cultural pattern of the Paleo-Indian Period in the California desert region. Originally named for the cultural sequence in western San Diego County (Rogers 1929, 1939), the complex now incorporates additional local patterns within the Colorado and Mojave Deserts and the western Great Basin (Rogers 1966; Warren 1967). Leaf-shaped points and knives, crescents, and scrapers characterize the artifact assemblages throughout the region. Moratto (1984:92) subsumed the numerous local patterns (including the Lake Mojave Period of Warren 1967) under the overarching Western Pluvial Lakes Tradition (WPLT), first defined

by Bedwell (1970). Current studies regarding the Colorado Desert, however, typically reference the Paleo-Indian Period or San Dieguito Complex, rather than the WPLT (c.f., Schaefer and Laylander 2007).

3.2.1.2 *Early Archaic Period (6000–2000 B.C.)*

As the pluvial conditions of the Pleistocene transitioned to the more arid Holocene climate, many of the lakes and wetlands present during the Paleo-Indian Period began to dry up. By the Early Archaic, many of the wetlands throughout the three deserts had disappeared (though brief periods of moister conditions do appear later as discussed below). Desert populations appear to have adapted to these more arid conditions by withdrawing to the margins of the desert or concentrating around the few oases still present within it (Warren 1984:413-414). A brief period of moister conditions may have led to a temporary reoccupation of the desert region between 4500 and 3500 B.C. However, evidence from the Mojave Desert and western Great Basin sites suggests that most Early Archaic sites were temporary, seasonal camps of small, highly mobile groups. Slab metates and hand stones (used to process hard seeds), shaped scrapers, and the Pinto-style projectile point characterize the artifact assemblages of the Pinto Basin Complex. In the Colorado Desert, the Indian Hill rockshelter is recognized as one of the best understood Archaic Period sites, with occupation extending back more than 4000 years (Schaefer and Laylander 2007:247).

3.2.1.3 *Late Archaic Period (2000 B.C.–A.D. 500)*

The onset of the Late Archaic coincides with the beginning of the Little Pluvial, a brief period of moister climatic conditions. By the second half of the Late Archaic, arid conditions returned. Desert peoples appear to have been well adapted to these conditions by this time, however, and no notable decrease in population appeared to have occurred. Late Archaic sites are characterized by a wider range of diagnostic projectile points, such as the Gypsum and Elko types, as well as split-twig figurines, the latter typically preserved in caves (Warren 1984:416–417). Hand stones and metates continued to be employed but were supplemented by the introduction of mortars and pestles during this period. Based on ethnographic analogy and site location, Warren (1984:419) suggests that mortars and pestles were used to process mesquite pods. The bow and arrow also appear to have been introduced near the end of this period. In addition, this period is marked by an increased presence of exotic trade goods, including shell ornaments from the Pacific coast.

Several large Late Archaic Period sites in the Colorado Desert indicate increased sedentism, particularly in the northern Coachella Valley (Love and Dahdul 2002; Schaefer and Laylander 2007). Late Archaic sites near the maximum shoreline of Lake Cahuilla indicate rabbits supplemented lacustrine food sources such as fish, shellfish, and migratory waterfowl (Schaefer and Laylander 2007). Long-distance trade is evidenced in these assemblages by the presence of obsidian from the Coso volcanic field in Inyo County and shell beads from the Gulf of California.

3.2.1.4 *Late Prehistoric Period (A.D. 500–Historic Contact)*

The period from the end of the Archaic Period to European contact was a time of complex and ongoing change in material culture, burial practices, and subsistence focus. These changes most likely reflect both cultural influences from outside the region and in situ cultural adaptations in response to shifts in environmental conditions. The Late Prehistoric, commonly called the Patayan Period in the Colorado Desert, is identified by the introduction of pottery and marked by stronger regional differentiation. While the artifact assemblages are similar to those of the Late Archaic,

notable differences exist. In addition to ceramics, cremation first appears in the archaeological record in the Colorado Desert at this time. In general, projectile points are smaller and triangular in shape. Regional differentiation in the distribution of projectile point and pottery types was due, in part, to trade and influences of neighboring cultures in the Lower Colorado River and Great Basin. Such influence includes the major migration into southern California of Takic-speaking people (Uto-Aztecan language group) from the Great Basin region (Nevada, Utah, and eastern California) (Warren 1968).

The Patayan sequence cultural pattern within the Colorado Desert region is divided into three periods with different pottery types and regional site distributions. Cottonwood Triangular and Desert-Side Notched projectile points, the change from extended inhumations to cremations, the introduction of pottery, networks of trail systems (with pot-drops and trail-side shrines), and the late introduction of small-scale agriculture characterize the Patayan period in general. Pottery is increasingly common throughout the period, including brown wares manufactured from upland clay sources (e.g., Tizon Brown Ware) and buff wares made from lowland sedimentary clays (e.g., Colorado Buff Ware). Material culture also included clay figurines and pipes, bedrock grinding slicks and mortars, worked bone tools, and rock art with an increasing progression toward distinctive Patayan symbolism (Schaefer and Laylander 2007:249). Interregional exchange goods include shell beads from the coast and Gulf of California; wonderstone from Rainbow Rock near today's Imperial City; and obsidian from Obsidian Butte near the southern end of today's Salton Sea, which at various times in the past was covered by the waters of Holocene Lake Cahuilla. The cyclical filling and desiccation of Lake Cahuilla appears to have dictated the settlement patterns in the Salton Trough and Coachella Valley during this period.

During Patayan I (ca. A.D. 800 – 1050), mobile groups settled seasonally along the Lower Colorado River, practicing a mixed hunter-gatherer and horticultural economy. Their tool kit included pottery and Cottonwood Triangular and Desert-Side Notched projectile points. The agricultural-based Hohokam on the upper Gila River likely influenced this cultural pattern. Patayan II (ca. A.D. 950 – 1500) is characterized by the spread of these cultural traits from the Colorado River into the Colorado and Mojave Deserts. It also coincides with the infilling of Lake Cahuilla, as well as locally manufactured new ceramic types, such as Tizon Brown Ware. Patayan III (A.D. 1500 to European contact) is marked by the ultimate recession of Lake Cahuilla, the occurrence of specific pottery types (Colorado Buff Ware and painted pottery), and the practice of small-scale agriculture.

3.3 Ethnographic Overview

3.3.1 Cahuilla

The APE is situated within a region historically occupied by a Native American group known as the Cahuilla (Bean 1978, Kroeber 1925). The term Cahuilla likely derived from the native word *káwiya*, meaning “master” or “boss” (Bean 1978:575). Traditional Cahuilla ethnographic territory extended west to east from the present-day city of Riverside to the central portion of the Salton Sea in the Colorado Desert, and south to north from the San Jacinto Valley to the San Bernardino Mountains.

The Cahuilla, like their neighbors to west, the Luiseño and Juaneño, and the Cupeño to the south, are speakers of a Cupan language. Cupan languages are part of the Takic linguistic subfamily of the Uto-Aztecan language family. It is thought that the Cahuilla migrated to southern California approximately 2,000 to 3,000 years ago, most likely from the southern Sierra Nevada mountain ranges of east-central California with other Takic speaking social groups (Moratto 1984:559).

Cahuilla social organization was hierarchical and contained three primary levels (Bean 1978:580). The highest level was the cultural nationality, encompassing everyone speaking a common language. The next level included the two patrimoieties of the Wildcats (tuktum) and the Coyotes ('istam). Every clan of the Cahuilla fell into one or the other of these moieties. The lowest level consisted of the numerous political-ritual-corporate units called sibs, or a patrilineal clan (Bean 1978:580).

Cahuilla villages were usually located in canyons or on alluvial fans near a source of accessible water. Each lineage group maintained their own houses (kish) and granaries, and constructed ramadas for work and cooking. Sweat houses and song houses (for non-religious music) were also often present. Each community also had a separate house for the lineage or clan leader. A ceremonial house, or kiš ʔámnawet, associated with the clan leader was where major religious ceremonies were held. Houses and ancillary structures were often spaced apart, and a "village" could extend over a mile or two. Each lineage had ownership rights to various resource collecting locations, "including food collecting, hunting, and other areas. Individuals also owned specific areas or resources, e.g., plant foods, hunting areas, mineral collecting places, or sacred spots used only by shamans, healers and the like" (Bean 1990:2).

The Cahuilla hunted a variety of game, including mountain sheep, cottontail, jackrabbit, mice, and wood rats, as well as predators such as mountain lion, coyote, wolf, bobcat, and fox. Various birds were also consumed, including quail, duck, and dove, plus various types of reptiles, amphibians, and insects. A wide variety of tools and implements were employed by the Cahuilla to gather and collect food resources. For the hunt, these included the bow and arrow, traps, nets, slings and blinds for hunting land mammals and birds, and nets for fishing. Rabbits and hares were commonly brought down by the throwing stick; however, when communal hunts were organized for these animals, the Cahuilla often utilized clubs and large nets.

Foodstuffs were processed using a variety of tools, including portable stone mortars, bedrock mortars and pestles, basket hopper mortars, manos and metates, bedrock grinding slicks, hammerstones and anvils, and many others. Food was consumed from a number of woven and carved wood vessels and pottery vessels. The ground meal and unprocessed hard seeds were stored in large finely woven baskets, and the unprocessed mesquite beans were stored in large granaries woven of willow branches and raised off the ground on platforms to keep them from vermin. Pottery vessels were made by the Cahuilla, and also traded from the Yuman-speaking groups across the Colorado River and to the south.

The Cahuilla had adopted limited agricultural practices by the time Euro-Americans traveled into their territory. Bean (1978:578) has suggested that their "proto-agricultural techniques and a marginal agriculture" consisting of beans, squash and corn may have been adopted from the Colorado River groups to the east. Certainly by the time of the first Romero Expedition in 1823-24, they were observed growing corn, pumpkins, and beans in small gardens localized around springs in the Thermal area of the Coachella Valley (Bean and Mason 1962:104). The introduction of European plants such as barley and other grain crops suggest an interaction with the missions or local Mexican rancheros. Despite the increasing use and diversity of crops, no evidence indicates that this small-scale agriculture was anything more than a supplement to Cahuilla subsistence, and it apparently did not alter social organization.

By 1819, several Spanish mission outposts, known as assistencias, were established near Cahuilla territory at San Bernardino and San Jacinto. Cahuilla interaction with Europeans at this time was not as intense as it was for native groups living along the coast. This was likely due to the local topography and lack of water, which made the area less attractive to colonists. By the 1820s,

European interaction increased as mission ranchos were established in the region and local Cahuilla were employed to work on them.

The Bradshaw Trail was established in 1862 and was the first major east-west stage and freight route through the Coachella Valley. Traversing the San Gorgonio Pass, the trail connected gold mines on the Colorado River with the coast. Bradshaw based his trail on the Cocomaricopa Trail, with maps and guidance provided by local Native Americans. Journals by early travelers along the Bradshaw Trail told of encountering Cahuilla villages and walk-in wells during their journey through the Coachella Valley. The continued influx of immigrants into the region introduced the Cahuilla to European diseases. The single worst recorded event was a smallpox epidemic in 1862-63. By 1891, only 1,160 Cahuilla remained within what was left of their territory, reduced from an estimated aboriginal population of 6,000–10,000 (Bean 1978:583-584). By 1974, approximately 900 people claimed Cahuilla descent, most of who resided on reservations.

Between 1875 and 1891, the United States established ten reservations for the Cahuilla within their traditional territory. These reservations include: Agua Caliente, Augustine, Cabazon, Cahuilla, Los Coyotes, Morongo, Ramona, Santa Rosa, Soboba, and Torres-Martinez (Bean 1978:585). Four of the reservations are shared with other groups, including the Chemehuevi, Cupeño, and Serrano.

3.4 History

The post-contact history of California is generally divided into three time spans: the Spanish period (1769–1822), the Mexican period (1822–1848), and the American period (1848–present). Each of these periods is briefly described below.

3.4.1 Spanish Period (1769–1822)

Spanish exploration of California began when Juan Rodriguez Cabrillo led the first European expedition into the region in 1542. For more than 200 years after his initial expedition, Spanish, Portuguese, British, and Russian explorers sailed the California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968; Rolle 2003). Spanish entry into what was to become Riverside County did not occur until 1774 when Juan Bautista de Anza led an expedition from Sonora, Mexico to Monterey in northern California (Lech 1998).

In 1769, Gaspar de Portolá and Franciscan Father Junipero Serra established the first Spanish settlement in what was then known as Alta (upper) California at Mission San Diego de Alcalá. This was the first of 21 missions erected by the Spanish between 1769 and 1823. The establishment of the missions marks the first sustained occupation of Alta California by the Spanish. In addition to the missions, four presidios and three pueblos (towns) were established throughout the state (State Lands Commission 1982).

During this period, Spain also deeded ranchos to prominent citizens and soldiers, though very few in comparison to the subsequent Mexican Period. To manage and expand their herds of cattle on these large ranchos, colonists enlisted the labor of the surrounding Native American population, sometimes forcibly (Engelhardt 1927a; Reséndez 2016). The missions were responsible for administrating to the local Indians as well as converting the population to Christianity (Engelhardt 1927b). The influx of European settlers brought the local Native American population in contact with European diseases, which they had no immunity against, resulting in catastrophic reduction in native populations throughout the state (McCawley 1996).

3.4.2 Mexican Period (1822–1848)

The Mexican Period commenced when news of the success of the Mexican War of Independence (1810-1821) against the Spanish crown reached California in 1822. This period saw the privatization of mission lands in California with the passage of the Secularization Act of 1833. This Act federalized mission lands and enabled Mexican governors in California to distribute former mission lands to individuals in the form of land grants. Successive Mexican governors made approximately 700 land grants between 1833 and 1846, putting most of the state's lands into private ownership for the first time (Shumway 2007). About 15 land grants (ranchos) were located in Riverside County, though none of those were located near the Palm Desert area (Shumway 2007).

3.4.3 American Period (1848–Present)

The American Period officially began with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico \$15 million for conquered territory including California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming. Settlement of southern California increased dramatically in the early American Period. Many ranchos were sold or otherwise acquired by Americans, and most were subdivided into agricultural parcels or towns.

The discovery of gold in northern California in 1848 led to the California Gold Rush, though the first California gold found by settlers was discovered in Placerita Canyon in 1842 (Workman 1935; Guinn 1977). Southern California remained dominated by cattle ranches in the early American period, though droughts and increasing population resulted in farming and more urban professions supplanting ranching through the late nineteenth century. In 1850, California was admitted into the United States and by 1853, the population of California exceeded 300,000. Thousands of settlers and immigrants continued to move into the state, particularly after completion of the transcontinental railroad in 1869.

In the vicinity of the Salton Trough, numerous natural materials exist and have been extracted. Profitable materials included gypsum, and though no gold exists in the Coachella Valley, gold near the Colorado River spurred development of the Bradshaw Trail linking the San Geronio Pass and greater Los Angeles area with Arizona (Chandler et al. 2003). Two salt mining operations, the New Liverpool Salt Company and the Standard Company Salt, profitably mined accumulation of salt from the Salton Trough in the 1890s but were inundated by the flood of 1905.

Local History

Nineteenth century proposals to irrigate the Colorado Desert for agricultural and residential development began in 1891 with the formation of the Colorado River Irrigation Company, which was then superseded in 1896 by the California Development Company. Funding was provided through a contract signed by George Chaffey in 1900 (Chandler et al. 2003). Using portions of the Alamo River, construction of the Imperial Canal commenced in spring of 1900, bringing irrigation into the Imperial Valley by 1902. Excessive precipitation during the winter of 1904-1905 resulted in discharge into the Colorado River that exceeded the canal intake. Diversion attempts to control the overwhelming flood waters proved unsuccessful thus allowing the entire flow of the Colorado River to fill the Salton Basin, creating the contemporary Salton Sea (Chandler et al. 2003). A branch of Southern Pacific brought in rock and worked to construct levees and dams that ultimately sealed the compromised canal on February 10, 1907. Precipitation, irrigation runoff, and inflow from the Alamo and New Rivers prevent the current Salton Sea from evaporating entirely.

CVWD was organized in 1918 with the task of protecting local water sources in the Coachella Valley (CVWD 1968). To that aim, CVWD's first task was to acquire the water rights of the Whitewater River, and later establish the Coachella Branch of the All American Canal to supplement natural water sources supplying the valley. The work of CVWD provided the water necessary for the establishment of the valley's numerous golf courses and resorts.

Following the onset of America's military involvement in World War II (WWII), the War Plan Division of the War Department General Staff recognized the importance of providing military training for air and ground forces under conditions similar to the environmental conditions of the anticipated African campaign. General George S. Patton Jr., United States Army, selected the site of the Desert Training Center (DTC) in late March 1942 following a survey of the Mojave Desert. The parcel of land selected for the DTC extended from Phoenix, Arizona in the east, to Pomona, California in the west, and from Boulder City, Nevada in the north to Yuma, Arizona in the south. The DTC exceeded 10,000 square miles of both government and privately owned land. General Patton made his headquarters at Camp Young, near Shavers Summit (now Chiriaco Summit) approximately 40 miles (64 kilometers) east of the project area. Ten additional camps were established in the DTC including Camp Coxcomb, Camp Iron Mountain, Camp Granite, Camp Essex, Camp Ibis, Camp Hyder, Camp Horn, Camp Laguna, Camp Pilot Knob and Camp Bouse. In October 1943, the name of the DTC was changed to the California-Arizona Maneuver Area (CAMA). This name change reflected the growing scale and purpose of the training facility. The Camps trained nearly 1 million American servicemen and women. At that time, CAMA was the world's largest military installation in both size and population. Army divisions trained near the Salton Sea, throughout the Coachella Valley, and the Mojave Desert (Chandler et al. 2003). On April 30, 1944, two years after its inception, CAMA was closed by the Army and the camps were abandoned to the desert.

Palm Desert, in which the WRP10 and the APE are located, was founded by Randall, Carl, Clifford, and Phil Henderson in the mid-1940s. The Henderson brothers purchased 1,600 acres in hopes of establishing a winter resort for celebrities. They organized the Palm Desert Corporation, which developed real estate and promoted the town, and by 1947 had a high enough population to establish a post office. In 1951, the communities of Palm Village and Palm Desert merged to form the modern core of the city. In 1973, Palm Desert was incorporated as the 17th city in Riverside County (City of Palm Desert 2014).

4 Background Research

4.1 Cultural Resources Records Search

On December 8, 2017 and March 2, 2018 Rincon conducted searches of the California Historical Resources Information System at the Eastern Information Center (EIC) located at University of California, Riverside. The searches were conducted to identify any previously recorded cultural resources and previously conducted cultural resources studies within the APE and a 0.5-mile radius surrounding it. The searches included a review of the NRHP, the CRHR, and the California State Historic Resources Inventory list. The records searches also included a review of all available historical maps and aerial photographs. The results of the records searches are analyzed in this report.

Rincon’s cultural resources records searches identified a total of 70 previously conducted cultural resources studies within the 0.5-mile radius of the APE. Of the 70 studies, four intersect the project APE (Appendix B). A summary of the previously recorded reports can be found in Table 1.

The cultural resources records searches identified five previously recorded cultural resources within the 0.5-mile radius of the APE including one prehistoric site, one prehistoric isolate, one historic building, one historic isolate, and one historic site (Appendix B). None of the previously recorded resources intersect the project APE. A summary of the previously recorded resources can be found in Table 2.

Table 1 Previously Recorded Cultural Resource Studies within One-Half Mile of the APE

Report Number	Author(s)	Year	Title	Relationship to APE
RI-00103	Doyer, C. E., and N. Nelson Leonard, III	1978	The Coachella Valley County Water District Flood Control Assessment: A Cultural Resource Evaluation	Outside
RI-00714	Desautels, Roger J.	1979	Archaeological Survey Report on the Proposed Mobile Home Site (460 Acres) Located in the Myoma Area of the County of Riverside	Outside
RI-00715	Keller, Jean A.	1998	A Phase I Cultural Resources Assessment of Amendment to Specific Plan 151, 460 Acres of Land Located Near Palm Desert, Riverside County USGS Myoma, California Quadrangle, 7.5 Series	Outside
RI-00725	Swenson, James D.	1979	Environmental Impact Evaluation: An Archaeological Assessment of the Proposed Richard Burger Country Club, South of the City of Indian Wells, Riverside County, California	Within
RI-00733	Swenson, James D.	1979	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Tract 15002 Near Bermuda Dunes, Riverside County, California	Outside
RI-00763	Brown, Mary A.	1980	Cultural Resource Assessment of “The Dunes” Condominium Project in Bermuda Dunes, Riverside County, California	Outside

Report Number	Author(s)	Year	Title	Relationship to APE
RI-01103	Van Horn, David M.	1980	Archaeological Survey Report: A 350 Acre Parcel Located Adjacent to Country Club Drive Near Palm Desert in the County of Riverside, California	Adjacent
RI-01122	Drover, Christopher E.	1981	Environmental Impact Evaluation: Archaeological Assessment of the Proposed Extensions of the Monterey and 34th Avenues Near Thousand Palms, California	Outside
RI-01301	Love, Bruce, Michael Hogan, Mariam Dahdul, and Adrian Sanchez Moreno	2000	Historical/Archaeological Resources Survey Report, Tentative Parcel Map 29829, Community of Bermuda Dunes, Riverside County, California	Outside
RI-01362	Swenson, James D.	1981	Environmental Impact Evaluation: An Archaeological Assessment of the Proposed Desert Falls Country Club Site in the Coachella Valley, Riverside County, California	Adjacent
RI-01441	Scientific Resource Surveys, Inc.	1981	Archaeological Survey Report on Tt 16789 Located Near the City of Indio, Riverside County California	Outside
RI-01442	Scientific Resource Surveys, Inc.	1989	Archaeological Surface Collection at Two Locations on Tract 23317 Bermuda Dunes, Riverside County, California	Outside
RI-01682	McCarthy, Daniel F.	1983	Archaeological Assessment of Tentative Tract 19299, Coachella Valley, Riverside County, California	Within
RI-01812	Lerch, Michael K. and Gerald Smith	1984	Cultural Resources Assessment of the Proposed Russell Rowe Condominium Project, Palm Desert, Riverside County, California	Adjacent
RI-01867	Parr, Robert A.	1984	An Archaeological Assessment of 24 Acres of Land Near Bermuda Dunes in Riverside County, California	Adjacent
RI-01929	Salpas, Jean A.	1985	An Archaeological Assessment of Tract 20647 - Riverside County, California	Outside
RI-01935	Bissell, Ronald M.	1985	A Cultural Resources Evaluation of Lots 162 Through 165, BLOCK 192, Assessor's Map Book 609, Page 19, Bermuda Dunes, Riverside County, California	Outside
RI-02017	Keller, Jean Salpas	1985	An Archaeological Assessment of Plot Plan 8721, Riverside County, California	Outside
RI-02018	Keller, Jean Salpas	1985	An Archaeological Assessment of Plot Plan 8722, Riverside County, California	Outside
RI-02063	White, Laurie S. and David M. Van Horn	1986	Archaeological Survey Report: Proposed Site of the Indian Wells Resort and Convention Center	Adjacent
RI-02064	White, Robert S. and Laura S. White	2000	A Cultural Resources Assessment of the Heritage Club Project Site, 600+ Acres Located Immediately North of the Intersection of Fred Warning Drive and El Dorado Drive, Indian Wells, Riverside County	Adjacent
RI-02112	Binning, Jeanne D.	1988	Archaeological Assessment of Plot Plan 9503, EA No. 31262, Bermuda Dunes, Riverside County - Supplement	Adjacent
RI-02113	Binning, Jeanne D.	1987	Archaeological Assessment of Plot Plan 9503, EA No 31262, Bermuda Dunes, Riverside County	Adjacent

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Report Number	Author(s)	Year	Title	Relationship to APE
RI-02178	Neiditch, Barry R.	1987	An Archaeological Assessment of 34 Acres of Land Located in the City of Palm Desert, Riverside County, California	Outside
RI-02315	Whitney-Desautels, Nancy	1987	Archaeological Assessment Form: Bermuda Dunes Project	Outside
RI-02425	Yohe, Robert M. II	1989	An Archaeological Assessment of Tt 24379/Change of Zone 5402 Located in the Bermuda Dunes Area of Riverside County, California	Outside
RI-02480	McCarthy, Daniel F.	1989	An Archaeological Assessment of Tt 24685 Located in the Bermuda Dunes Area of Riverside County, California	Outside
RI-02658	White, Laurie and David Van Horn	1989	Archaeological Investigations at the Chapin Adobe City of Indian Wells	Outside
RI-02765	Arkush, Brooke	1990	An Archaeological Assessment of The Proposed Mid-Valley Stormwater Channel Located in The Coachella Valley of Central Riverside County, California	Adjacent
RI-02985	Yohe, Robert M. II	1989	An Archaeological Assessment of Tentative Tract 24030 Located in The Bermuda Dunes Area of Riverside County, California	Adjacent
RI-03044	White, Laurie S.	1990	An Archaeological Assessment of a 640 Acre Parcel as Shown on TT 26123 Located Immediately Southwest of the Intersection of Country Club Drive and Oasis Club Drive in Palm Desert, Riverside County, California	Within
RI-03499	Drover, Christopher	1992	A Cultural Resources Assessment of the Ten Acre Tentative Tract 27516, La Quinta USGS Quad, Riverside County, California	Outside
RI-03625	Hogan, Michael and Tom Tang	1993	Archaeological Survey of the Carver Project Located in the City of Palm Desert, Riverside County, California	Adjacent
RI-04052	Love, Bruce and Bai "Tom" Tang	1997	Cultural Resources Report California State University, San Bernardino Coachella Valley Campus City of Palm Desert Riverside County, California	Outside
RI-04182	Love, Bruce and Bai "Tom" Tang	1999	Cultural Resources Report: Tract Map No. 23778, Bermuda Dunes, Riverside County, California	Outside
RI-04189	Love, Bruce, Bai "Tom" Tang, and Michael Hogan	1999	Cultural Resources Report: Washington Square Project at the Corner of Washington Street and 42nd Avenue Near the Community of Bemuda Dunes, Riverside County, California	Outside
RI-04285	Delu, Antonina and Philippe Lapin	2000	Cultural Resources Assessment: Washington Street Retention Basin Project, Palm Desert, Riverside County, California	Adjacent
RI-04328	Bissell, Ronald M.	1999	Cultural Resources Reconnaissance for Improvements to Washington Street between Country Club Drive and Fred Waring Drive, Palm Desert, La Quinta and Bermuda Dunes, Riverside County, California	Adjacent

Report Number	Author(s)	Year	Title	Relationship to APE
RI-04495	Brock, James	2001	Phase I Archaeological/Historical Resources Assessment for Tentative Tract Map No. 29991, Bermuda Dunes Area of Unincorporated Riverside County, California (EA 38236; APN 607-170-005)	Outside
RI-04622	Mouriquand, Leslie J.	2003	Phase I Cultural Resources Investigation of 20-Acres Located South of Avenue 41, at Starlight Land Extended, in Bermuda Dunes, Riverside County, California	Outside
RI-04763	Duke, Curt	2002	Cultural Resource Assessment, AT&T Wireless Services Facility No. D472A, Riverside County, California	Outside
RI-05132	The Keith Companies	2005	Archaeological Monitoring Report: Stonegate Project, Bermuda Dunes, County of Riverside, California	Outside
RI-05217	Jackson, Adrianna	2001	Records Search Results for Sprint PCS Facility RV54XC403A (Great American) Palm Desert, Riverside County, California	Outside
RI-05219	White, Laurie	2001	Letter Report: Records Search Results for Sprint PCS Facility RV03XC083E (Soccer Park), City of Palm Desert, Riverside County, California	Outside
RI-05416	White, Laurie	2001	Records Search Results for Sprint PCS Facility RV54XC405B (Concho Substation), City of Palm Desert, Riverside County, California	Outside
RI-05697	Thal, Erika	2005	Request for SHPO Review of FCC Undertaking for Project Sweetwater/TT-CA-8574C	Outside
RI-05867	Love, Bruce, Bai "Tom" Tang, Daniel Ballester, and Mariam Dahdul	2000	Historical/Archaeological Resources Survey Report, Tentative Parcel Map No. 29957, 78-975 Darby Road, Bermuda Dunes, Riverside County, California	Outside
RI-06648	Billat, Lorna	2006	New Tower ("CO") Submission Packet, FCC Form 621, Moonshine Synergy	Outside
RI-06657	Tang, Bai "Tom", Michael Hogan, Clarence Bodmer, Lisa Hunt, and Laura H. Shaker	2006	Historical/Archaeological Resources Survey Report, Assessor's Parcel No. 609-061-014, Near the Community of Bermuda Dunes, Riverside County, California	Outside
RI-06939	Brunzell, David M.A.	2006	Cultural Resource Assessment Coachella Valley Water District Palm Desert Facility City of Palm Desert Riverside County, California	Outside
RI-07195	Duke, Curt	2002	Cultural Resource Assessment: AT&T Wireless Services, Facility No. D472C, Riverside County, California	Outside
RI-07266	Tang, Bai "Tom" and Michael Hogan	2007	Historical/Archaeological Resources Survey Report: Assessor's Parcel No. 607-130-010 in Bermuda Dunes Area of Riverside County, California	Adjacent
RI-07273	White, Robert S., Laura S. White, and David M. Van Horn	2006	A Cultural Resources Assessment of A 8.54- Acre Parcel as Shown on TTM 34546, Southwest of the Intersection of Darby Road and Adams Street, Bermuda Dunes, Unincorporated Riverside County	Outside

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Report Number	Author(s)	Year	Title	Relationship to APE
RI-07318	Bonner, Wayne and Aislin-Kay, Marnie	2006	Cultural Resource Records Search and Site Visit Results for T-Mobile Candidate IE04958A (Byron), 42488 Byron Place, Bermuda Dunes, Riverside County, California	Outside
RI-08128	Bonner, Wayne, Marrie Aislin-Kay, Alynne Loupe, and Sarah Williams,	2008	Letter Report: Cultural Resource Records Search for AT&T Mobility, LLC Telecommunications Facility Candidate	Outside
RI-08262	Allred, Carla	2009	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): LA-3638A/Stor America TCNS# 53110	Outside
RI-08280	Allred, Carla	2009	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): LA-3635A/Bermuda Dunes Country Club TCNS# 59940	Outside
RI-08442	McKenna, Jeanette A.	2010	An Archaeological Survey of a Portion of the Whitewater River Drainage between Cook Street And Phyllis Jackson Lane in the City of Palm Desert, Riverside County, California	Outside
RI-08491	George, Joan; Vanessa Miro; Dennis McDougal	2010	Phase I Archaeological Assessment of Approximately 8,000 Feet for the Classic Club Golf Course Pipeline Project, Unincorporated Riverside County, California	Outside
RI-08496	Mirro, Michael	2010	Letter Report: Cultural Resources Records Search for Shot Points Located on Private Lands for the U.S. Geological Survey (USGS) Salton Seismic Imaging Project Addendum	Adjacent
RI-08540	Tang, Bai "Tom" and Michael Hogan	2010	Identification and Evaluation of Historic Properties Indio Water Authority Wastewater Treatment Project Cities of Indio and La Quinta Riverside County, California	Outside
RI-08739	Tang, Bai "Tom", Michael Hogan, and Nina Gallardo	2011	Historical/Archaeological Resources Survey Washington Street Apartments Project	Outside
RI-09245	Glenn, Brian K.	2006	Cultural Resources Inventory within the Proposed Mid-Valley Pipeline Project Area Riverside County, California	Outside
RI-09279	Tang, Bai "Tom", Ben Kerridge, Daniel Ballester, and Nina Gallardo	2015	Phase I Historical/Archaeological Resources Survey: Santa Rosa Golf Club and Catavina Property City of Palm Desert, Riverside County, California	Adjacent
RI-09595	Puckett, Heather R	2014	Cultural Resources Summary for the Proposed Verizon Wireless, Inc., Property at the Sweetwater Site, 40004 Cook Street, Palm Desert, Riverside County, California 92211	Outside
RI-09768	Love, Bruce and Bai "Tom" Tang	2000	Cultural Resource Element City of La Quinta General Plan	Adjacent
RI-09889	Tang, Bai "Tom" and Michael Hogan	2016	Assessors Parcel Numbers 694-300-001, -002...	Outside
RI-09897	Tang, Bai "Tom"	2016	Cultural Resources Regulatory Compliance Analysis Bermuda Dunes Country Club Nonpotable Water Pipeline Extension Project Bermuda Dunes Area, Riverside County, California CRM TECH Contract No. 3151	Within

Report Number	Author(s)	Year	Title	Relationship to APE
RI-10079	Budinger, Fred E., Jr.	2002	Proposed Wireless Device Monopole and Equipment Cabinet; Woodhaven Site, 41800 42nd avenue, Indio, California, 92201	Adjacent
RI-09916	Bonner, Wayne H.; Marrie Aislin-Kay, and Alynne Loupe	2005	Cultural Resource Records Search and Site Visit Results for Cingular Telecommunications Facility Candidate RS-0094-02 (Palm Valley Country Club), 765-1 Begonia Lane, City of Palm Desert, Riverside County, California	Outside

Source: Eastern Information Center December 2017 and March 2018

Table 2 Previously Recorded Resources within One-Half Mile of APE

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR Status	Relationship to APE
P-33-005080	CA-RIV-005080	Prehistoric	Site; Ceramic Scatter	1993 (M. Hogan, K. Moffitt, RI-03625 Archaeological Research Unit, UC Riverside)	Not Evaluated	Outside
P-33-011088	N/A	Prehistoric	Isolate; Mano Fragment	2001 (D. Ballester, CRM Tech)	Assumed Ineligible	Outside
P-33-012721	N/A	Historic	Isolate; Glass fragments	1988 (R. M. Apple, K. Norwood, T. Wahoff, Dames & Moore)	Assumed Ineligible	Outside
P-33-015453	N/A	Historic	Building; Single story wood-frame residence	2006 (White, Laura S., RI-07273 Archaeological Associates)	Found ineligible for NR, CR or local designation	Adjacent
P-33-024573	CA-RIV-012188	Historic	Historic; resource record missing from EIC	2015 (Riordan Goodwin, LSA Associates)	Not Evaluated	Outside

Source: Eastern Information Center, December 2017 and March 2018

4.2 Native American Scoping

Rincon contacted the Native American Heritage Commission (NAHC) on December 1, 2017 to request a Sacred Lands File (SLF) search of the project APE. A second request was submitted on March 6, 2018 as a result of the APE expansion. As part of these requests, Rincon asked the NAHC to provide a list of Native American groups and/or individuals culturally affiliated with the area who may have knowledge of cultural resources within the APE. The NAHC responded on December 15, 2017 and on March 7, 2018 stating negative results and a list of Native American tribes who may have knowledge of cultural resources in the project area. A total of 54 Native American contacts (36 identified in December and 18 additional contacts identified in March) were provided by the NAHC as possibly having information regarding the APE. On December 22, 2017, and March 16, 2018, Rincon prepared and mailed letters to each of the NAHC-listed contacts, requesting that they contact Rincon if they know of any Native American cultural resources within or immediately

adjacent to the project area. Rincon followed up with each contact by phone and email (when requested). As many as two telephone calls were made to each contact to document “good faith” efforts to follow-up and the results are presented in tabular format in Appendix B. These phone calls were placed on January 11, January 22, and March 30, 2018. Table 3 summarizes the responses received as a result of the Native American Scoping efforts.

Table 3 Responses Received from Native American Scoping Efforts

Native American Contact	Tribal Affiliation	Follow Up Date	Results
Jeff Grubbe, Chairperson	Agua Caliente Band of Cahuilla Indians (ACBCI)	1/9/2018	<p>Patricia Garcia-Plotkin, THPO, responded via phone stating the ACBCI responds to all letters but they currently have limited staff to answer and estimated that Rincon should hear from them within about 3 weeks.</p> <p>1/29/18 Ms. Garcia-Plotkin called and stated that she has not yet processed the letter. Ms. Garcia-Plotkin requested that Rincon send her an electronic version of the letter with a map of the project area; she also requested the results of the records search and field survey. She hopes to process the letter within a week (one week would be 2/5/18).</p> <p>1/29/2018 Rincon sent an electronic version of the letter and map of the project area to Ms. Garcia-Plotkin.</p> <p>3/1/18 Rincon received an email with attached letter from Katie Croft, Cultural Resources Manager, stating the ACBCI would like a copy of records search results, cultural resources inventory of the project area, copies of any cultural documentation (site records and reports) generated in connection with this project.</p> <p>3/6/2018 Rincon responded to the request via email stating the response has been received and that the cultural study is ongoing and has not yet been completed. Upon completion of a draft report for this study, Rincon will request permission from the Coachella Valley Water District to provide it to ACBCI.</p>
Amanda Vance, Chairperson	Augustine Band of Cahuilla Indians	1/9/2018 1/22/2018	<p>Rincon received a letter from Amanda Vance, Chairperson, dated January 10, 2018 stating Augustine Band of Cahuilla Indians is unaware of specific cultural resources that may be affected by the proposed project and encouraged CVWD to contract with a monitor who is qualified in Native American cultural resources identification and who is able to be present on site full-time during pre-construction and construction phases of the project. Ms. Vance also requested to be notified immediately should the project discover any cultural resources during the development of this project.</p> <p>4/10/2018 Rincon responded to the request via phone call stating the response has been received and that the request will be documented in the report for this study.</p>
Doug Welmas, Chairperson	Cabazon Band of Mission Indians	1/9/2018 1/22/2018	<p>Rincon received an email letter dated March 22, 2018 from Judy Strapp, Director of Cultural Affairs, stating the project is located outside of the Tribe’s current reservation boundaries. The Tribe has no specific archival information on the project site.</p>
Daniel Salgado, Chairperson	Cahuilla Band of Mission Indians	1/9/2018 1/22/2018	<p>On January 24, 2018, Bobby Ray Esparza, Cultural Coordinator, responded via email stating that the Cahuilla Band of Mission Indians does not have any known knowledge of any cultural resources that exist within or near the project area. The Cahuilla band requested we get in contact with the Agua Caliente Band of Indians.</p>

Native American Contact	Tribal Affiliation	Follow Up Date	Results
H. Jill McCormick, Tribal Archaeologist	Cocopah Indian Reservation	1/4/2018	Jill McCormick, Tribal Archaeologist, responded via email letter stating the Cocopah Indian Reservation wishes to make no comments on the development of the project.
Andrew Salas, Chairperson	Gabrieleno Band of Mission Indians – Kizh Nation	1/10/2018	Mr. Salas, Chairperson, stated that the project location is outside of their ancestral territory. Mr. Salas recommended that Rincon contact the Cahuilla.
Anthony Morales, Chairperson	Gabrieleno/Tongva San Gabriel Band of Mission Indians	1/10/2018	Mr. Morales, Chairperson, stated that the project area is beyond their ancestral territory and recommended talking with the Cahuilla contacts.
Matias Belardes, Chairperson	Juaneno Band of Mission Indians Acjachemen Nation	1/11/2018	Mr. Belardes, Chairperson, stated that the project area is outside of their tribal territory.
Shasta Gaughen, PhD, THPO	Pala Band of Mission Indians	12/29/2017	Ms. Gaughen, THPO, responded on 12/29/17 on behalf of Robert Smith, Tribal Chairman, stating that the project as described is not within the boundaries of recognized Pala Indian Reservation and is beyond their Traditional Use Area; therefore they have no objection to the continuation of the project activities as they are currently planned.
Temet Aguilar, Chairperson	Pauma Band of Luiseño Indians	1/11/2018	Mr. Aguilar, Chairperson, stated that the Coachella valley is outside of their ancestral lands and will defer to the Cahuilla.
Bo Mazzetti, Chairperson	Rincon Band of Luiseño Indians	1/11/2018	Destiny Colocho stated that the project is outside Luiseño territory; Ms. Colocho stated that the project location is not within the Luiseño Aboriginal Territory and recommended that Rincon locate a tribe within the project area to receive direction on how to handle any inadvertent findings according to their customs and traditions.
Tribal Council	San Luis Rey Band of Mission Indians	1/11/2018 1/22/2018	They would like to defer to other tribes who reside closer to project; they stated that project is outside of the area they monitor.
Lee Clauss, Director-CRM Department	San Manuel Band of Mission Indians (SMBMI)	1/11/2018	Rincon received an email reply from Jessica Mauck, Cultural Resources Analyst, on behalf of SMBMI stating that the project is outside their traditional territory.
Jessica Mauck, Cultural Resources Analyst	San Manuel Band of Mission Indians	12/26/2017 3/22/2018	Ms. Mauck, Cultural Resources Analyst, responded on December 26, 2017 and on March 22, 2018 stating that the proposed project area is located outside of Serrano ancestral territory and, as such, SMBMI will not be engaging in information sharing for the cultural study, nor will the Tribe request consulting party status with the Lead Agency to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates.
Goldie Walker, Chairperson	Serrano Nation of Mission Indians	1/11/2018	Ms. Walker, Chairperson, stated she is interested in project updates; would like to be notified if resources are found. Ms. Walker would like to request a copy of the report following the project and would like to know if resources are uncovered during project construction.

Native American Contact	Tribal Affiliation	Follow Up Date	Results
Michael Mirelez, Cultural Resource Coordinator	Torres-Martinez Desert Cahuilla Indians	1/11/2018 1/22/2018 1/30/2018	Mr. Mirelez, Cultural Resource Coordinator, stated that he has concerns with the project and stated that the area is within their traditional area and that there are known villages in the area, but he did not provide the specific locations of those villages. He requested an electronic copy of the letter and map to be sent to his email. An electronic copy of the letter and project area map was sent to Mr. Mirelez on 1/11/2018. Mr. Mirelez also requested a copy of CR report when finished. Rincon left a voice messages for Mr. Mirelez on 1/22/2018 and 1/30/2018 to confirm if he had received the electronic copy of the letter and project area map.
Darrell Mike, Chairperson	Twenty-Nine Palms Band of Mission Indians	1/11/2018	Sarah Bliss , Tribal Cultural Specialist, provided the following statement via email: Tribal Historic Preservation Office is not aware of any additional cultural resources or any Tribal Cultural Resources, as defined California Public Resources Code § 21074 (a) (1) (A)-(B) or historic properties (36 CFR 800) within the project area. However, because the project is located in the vicinity of the Chemehuevi Traditional Use Area the Tribe is interested in the project and will request the completed report from the Coachella Valley Water District. After our office receives a completed report we will provide additional comments to the Lead Agency.
Robert Welch, Chairperson	Viejas Band of Kumeyaay Indians	3/21/2018	Ray Teran, Resource Management, stated the Viejas Band of Kumeyaay Indians determined that the project site has little cultural significance or ties to the Viejas; Mr. Teran requested to be informed of any new developments such as inadvertent discovery of cultural artifacts, cremation sites, or human remains. 4/10/2018 Rincon responded to the request stating the response has been received and that the request will be documented in the report for this study.

Source: Rincon Consultants, Inc., January 2018 through April 2018

As of April 12, 2018, Rincon has not received any additional responses from Native American contacts. Rincon assumes that the lead agency, Coachella Valley Water District, conducted or will conduct AB 52 consultation with interested Native Americans as a separate effort, if applicable.

4.3 Local Historical Group Consultation

Rincon contacted individuals and organizations who may have knowledge of or concerns with historic properties in the area. Consultation included inquiries to local historical groups regarding their knowledge of historic properties in the immediate vicinity of the APE. As many as two telephone calls were made to each group to document “good faith” efforts to follow-up and the results are documented in tabular form in Appendix C.

Three groups were consulted with including the Coachella Valley Historical Society and Coachella Valley History Museum, the Historical Society of Palm Desert, and the Palm Springs Historical Society. On December 18, 2017, the Coachella Valley Historical Society and Coachella Valley History Museum responded stating that the museum had no comment on the proposed project and recommended the Historical Society of Palm Desert as the more appropriate organization to comment for the project area as they are the organization closest to the project APE. Follow-up phone calls to the Historical Society of Palm Desert were placed on December 18, 2017 and

December 27, 2017 and resulted in voice messages to the office manager, Merrilee Colton. On December 18, 2018, Jeri Vogelsang, Director of the Palm Springs Historical Society responded stating that she does not have any knowledge of or concerns about resources in the project area.

On March 19, 2018, Rincon contacted via phone the Historical Society of Palm Desert and the Palm Springs Historical Society. Jeri Vogelsang with the Palm Springs Historical Society responded stating she does not have specific knowledge of cultural resources in the vicinity of the APE. Merrilee Colton of the Historical Society of Palm Desert responded on March 20, 2017 requesting a map of the updated APE. On March 23, 2014, Harry Quinn of the Historical Society of Palm Desert responded stating that the only portion of the APE that might have supported occupation sites is in south half of the north-half of section 15 on the *La Quinta* USGS topographic quadrangle; however, this area has been heavily impacted by earlier development and therefore is considered to have low potential for in-place cultural materials. As of April 12, 2018, Rincon has not received any additional responses regarding the current study.

4.4 Historical Imagery Review

A review of historical aerial photographs (NETRonline 2017) of the APE was conducted on November 30, 2017, and on March 12, 2018. The earliest aerial available from this source was taken in 1972 and revealed that the majority of the APE was undeveloped at that time, with the exception being the residential development and Palm Desert Country Club located south of the APE at the south east corner of Oasis Club Drive and 42nd Avenue and east to Washington Street. The residential development and golf course, Bermuda Dunes, also appears in an initial stage of development on the 1972 aerial. Residential development is also apparent adjacent to the northwestern portion of the APE near the southwest corner of Frank Sinatra Drive and Portola Avenue. During this time, the landscape was dominated by blown sands with nearly non-existent vegetation clustered near the remnant path of the Whitewater River. By 1996 residential developments appear throughout much of the APE, with undeveloped portions remaining to the east of the WRP10 facility and at the northeast corner of Hovley Lane East and El Dorado Drive. Between 1996 and 2002 the northeast corner of Hovley Lane East and El Dorado Drive underwent development for the Indian Ridge Country Club. From 2005 to 2012 portions of the parcel east of WRP10 were developed for the Toscana Country Club.

5 Field Survey

5.1 Methods

On January 15, 2018, Rincon performed a Phase I pedestrian field survey of the proposed pipeline alignments in the APE. The updated portions of the alignment were surveyed on March 14, 2018. Rincon utilized two survey methods including a “windshield survey” of all paved areas in the APE and a pedestrian survey to inspect all areas of exposed ground. During the windshield survey, all paved portions of the alignment were driven and inspected for any indication of exposed ground. Where exposed ground was visible, the survey was conducted on foot and in 15 meter transects. During the pedestrian survey, Rincon examined all exposed ground surface for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were also visually inspected. The survey was conducted using the aid of a handheld GPS unit. Field notes of survey conditions and observations were recorded using Rincon field forms and a digital camera. Copies of the original field notes and photographs are maintained at the Rincon Redlands office.

5.2 Results

The APE is predominantly developed and consists of residential and commercial developments that exhibit paved roadways, landscaped walkways, and manicured golf courses. Unpaved sections of the APE are located in CVWD’s WRP10 facility at the south eastern extent of the alignment. The WRP10 facility contains water treatment and storage infrastructure and has both paved and unpaved access roads (Figure 3). Ground surface visibility throughout the APE was minimal, ranging from 0 to 30 percent, as the majority of the APE is in paved roadways and in developed residential communities with small portions of exposed ground surface located at the eastern boundary of the WRP10 facility, adjacent to the APE on the north side of 42nd Avenue, at the terminus of the Marriott Shadow Ridge connection, and on the west side of Portola Avenue. No cultural resources were identified during the windshield or pedestrian surveys, nor were any specific archaeological sites identified through either the cultural resources records searches or consultation with Native American representatives.

Figure 3 APE, WRP10 Southern Extent of Alignment, Facing West



The southeastern extent of the alignment is in the WRP 10 facility. The APE in this area includes both paved and unpaved roadways (Figure 3). A concrete block wall constitutes the eastern boundary of the WRP 10 facility (Figure 4). Here, undeveloped and exposed ground was observed. The partially undeveloped portion of WRP10 has been previously disturbed by past grading and vehicular traffic. A berm of native sediments exists adjacent to the block wall and is likely associated with initial construction of the wall. Visibility in this area was fair, at roughly 30 percent, and was obscured by dry grasses and overgrown vegetation. Native sediments of non-consolidated, light brown, fine to medium grained sands were observed along the WRP10 eastern boundary (Figure 4). Imported gravel and fill materials were noted along the unpaved access road and modern debris including glass beverage bottles and miscellaneous building supplies adjacent to the block wall suggests that these areas have been previously disturbed by past construction activities and maintenance (Figure 5).

Figure 4 Exposed Ground at WRP10 Boundary, Facing North



Figure 5 Modern Refuse in APE at WRP10 Eastern Boundary, View South



Figure 6 APE in Oasis Country Club, View Northwest



Beyond the WRP 10 facility, the APE traverses paved roadways and landscaped areas in developed residential and resort communities (Figure 6).

Figure 7 Manicured Golf Course and Pond, View South



Landscaped and manicured greenways, paved cart paths, and man-made ponds exist in the residential resort communities (Figure 7).

Figure 8 Partially Exposed Ground at Palm Desert Resort, View South



A small section along the western boundary of the Palm Desert Resort resembled an unpaved, though previously disturbed, maintenance roadway and was inspected for cultural resources. This area exhibits vehicular usage and is bordered by manicured landscapes and paved roadways (Figure 8).

Figure 9 APE in Woodhaven Resort, View Northwest



The APE alignment in the Woodhaven Resort terminates in the fairway of a manicured golf course (Figure 9).

Figure 10 APE Along Hovley Lane East, View Southeast



The alignments throughout the APE within the roadways of Hovley Lane East, Sand Dune Drive, Oasis Club Drive, and El Dorado Drive, are paved with landscaped parkways (Figure 10). Exposed ground was observed in the northwestern terminus of the APE at the Marriott Shadow Ridge connection (Figure 11).

Figure 11 Northwestern Terminus of APE at Frank Sinatra Drive; View East



Figure 12 Western APE at Portola Avenue; View South



Paved roadways and landscaped walkways line Portola Avenue in the western portion of the APE (Figure 12). Landscaping and ornamental plantings surround the man-made pond at the Marriott Desert Springs North connection (Figure 13). The residential community of Bermuda Dunes is at the eastern end of the APE and includes paved roadways, residential homes and landscaped greenspace (Figure 14).

Figure 13 Country Club Drive at Marriott Desert Springs North; View North



Figure 14 Eastern End of APE at Bermuda Dunes Connection; View North



The APE along 42nd Avenue is paved and lined with commercial and residential development with few vacant parcels on the north side of the street (Figure 15). The connection for the RV resort at El Dorado Drive and Frank Sinatra Drive is paved with landscaped green space (Figure 16). No cultural resources were identified within the APE during the field survey.

Figure 15 APE at 42nd Avenue East of Washington Street; View East



Figure 16 APE at El Dorado Drive and Frank Sinatra Drive; View South



6 Findings and Recommendations

The results of the cultural resources records searches, Native American outreach, and field surveys did not identify any prehistoric or historic cultural resources within the APE. According to historical aerial photographs, much of the APE was not developed until after 1972, with increasing development evident by the mid-1990s (NETRonline 2017). Although ground disturbance for trenching is expected to occur up to 5 feet (1.5 meters) wide and reach depths of 8 feet (2.4 meters) below ground surface, much of the APE has been previously disturbed by prior development, including grading, paving, and landscaping. Though cultural resources were not identified during the field survey, responses from the Native American scoping indicated that the vicinity of the APE does encompass areas traditionally used by the Agua Caliente Band of Cahuilla Indians, the Torres-Martinez Desert Cahuilla Indians, and the Twenty-Nine Palms Band of Mission Indians.

Results from the SLF submitted to the NAHC did not indicate any known resources in the vicinity of the APE. As part of the Native American Scoping for the project, Rincon sent letters to the NAHC provided list of contacts and received responses from several tribes who expressed interest in the project and identified the APE as being within their traditional use areas, though no specific resources were identified within the APE. Rincon recommends that CVWD provide a copy of this report to all interested tribes.

Therefore, Rincon recommends a finding of ***less than significant impact to historical resources*** under CEQA and ***no effect to historic properties*** under Section 106 of NHPA. Rincon recommends the following measure as best management practice in the event of the unanticipated discovery of cultural resources during project construction in order to further reduce the already less than significant impact under CEQA.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be significant under CEQA and/or NHPA, additional work such as data recovery excavation and Native American consultation and archaeological monitoring may be warranted to mitigate any significant impacts.

The discovery of human remains is always a possibility during ground disturbing activities. Below is a summary of existing regulations concerning the unanticipated discovery of human remains.

Unanticipated Discovery of Human Remains

If human remains are found, existing regulations outlined in the State of California Health and Safety Code Section 7050.5 state that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the

NAHC, which will determine and notify a most likely descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of being granted access and provide recommendations as to the treatment of the remains to the landowner.

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Appendix A

Records Search Summary

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-00103	NADB-R - 1080116; Voided - MF-0091	1978	C.E Doyer and N. Nelson Leonard, III	The Coachella Valley County Water District Flood Control Assessment: A Cultural Resource Evaluation.	Archaeological Research Unit, U.C. Riverside	33-001320, 33-001321, 33-001322, 33-001323, 33-001324, 33-001325, 33-001326
RI-00725	NADB-R - 1080774; Voided - MF-0646	1979	James D. Swenson	Environmental Impact Evaluation: An Archaeological Assessment of the Proposed Richard Burger Country Club, South of the City of Indian Wells, Riverside County, California	Archaeological Research Unit, U.C. Riverside	
RI-01682	NADB-R - 1081991; Voided - MF-1793	1983	MCCARTHY, DANIEL F.	ARCHAEOLOGICAL ASSESSMENT OF TENTATIVE TRACT 19299, COACHELLA VALLEY, RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	
RI-02063	NADB-R - 1082498; Voided - MF-2262	1986	WHITE, LAURIE S. and DAVID M. VAN HORN	ARCHAEOLOGICAL SURVEY REPORT: PROPOSED SITE OF THE INDIAN WELLS RESORT AND CONVENTION CENTER	ARCHAEOLOGICAL ASSOCIATES, INC.	
RI-02064	NADB-R - 1085531; Voided - MF-2262	2000	WHITE, ROBERT S. and LAURA S. WHITE	A CULTURAL RESOURCES ASSESSMENT OF THE HERITAGE CLUB PROJECT SITE, 600+ ACRES LOCATED IMMEDIATELY NORTH OF THE INTERSECTION OF FRED WARING DRIVE AND EL DORADO DRIVE, INDIAN WELLS, RIVERSIDE COUNTY.	ARCHAEOLOGICAL ASSOCIATES	
RI-02178	NADB-R - 1082605; Voided - MF-2364	1987	NEIDITCH, BARRY R.	AN ARCHAEOLOGICAL ASSESSMENT OF 34 ACRES OF LAND LOCATED IN THE CITY OF PALM DESERT, RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	
RI-02658	NADB-R - 1083128; Voided - MF-2862	1989	WHITE, LAURIE and DAVID VAN HORN	ARCHAEOLOGICAL INVESTIGATIONS AT THE CHAPIN ADOBE CITY OF INDIAN WELLS.	ARCHAEOLOGICAL ASSOCIATES, LTD.	33-003886
RI-03044	NADB-R - 1083592; Voided - MF-3268	1990	WHITE, LAURIE S.	AN ARCHAEOLOGICAL ASSESSMENT OF A 640 ACRE PARCEL AS SHOWN ON TT 26123 LOCATED IMMEDIATELY SOUTHWEST OF THE INTERSECTION OF COUNTRY CLUB DRIVE AND OASIS CLUB DRIVE IN PALM DESERT, RIVERSIDE COUNTY, CALIFORNIA.	ARCHAEOLOGICAL ASSOCIATES, LTD.	
RI-05217	NADB-R - 1086580	2001	JACKSON, ADRIANNA	RECORDS SEARCH RESULTS FOR SPRINT PCS FACILITY RV54XC403A (GREAT AMERICAN) PALM DESERT, RIVERSIDE COUNTY, CA	MICHAEL BRANDMAN ASSOCIATES	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-05416	NADB-R - 1086779	2001	WHITE, LAURIE	RECORDS SEARCH RESULTS FOR SPRINT PCS FACILITY RV54XC405B (CONCHO SUBSTATION), CITY OF PALM DESERT, RIVERSIDE COUNTY, CA	MICHAEL BRANDMAN ASSOCIATES	
RI-05697	NADB-R - 1087060; Submitter - Tt-CA-8574C	2005	THAL, ERIKA	REQUEST FOR SHPO ERVIEW OF FCC UNDERTAKING FOR PROJECT SWEETWATER/TT-CA-8574C	EARTHTOUCH, INC.	
RI-06648	NADB-R - 1088015; Submitter - JOB #CA-5300D	2006	BILLAT, LORNA	NEW TOWER ("CO") SUBMISSION PACKET, FCC FORM 621, MOONSHINE SYNERGY	EARTHTOUCH, INC.	
RI-06939		2006	David Brunzell M.A	Cultural Resource Assessment coachella Valley Water District Palm Desert Facility City of Palm Desert Riverside County, California	LSA Associates, Inc	
RI-08128	Submitter - RS0094-02	2008	Wayne Bonner, Marnie Aislin-Kay, Alynne Loupe, and Sarah Williams	Letter Report: Cultural Resource Records Search for AT&T Mobility, LLC Telecommunications Facility Candidate	Michael Brandman Associates, Irvine, California	
RI-08442	Submitter - Job No. 06-10-09-1483	2010	Jeanette A. McKenna	An Archaeological Survey of a Portion of the Whitewater River Drainage between Cook Street and Phyllis Jackson Lane in the City of Palm Desert, Riverside County, California.	McKENNA et al.	
RI-08491		2010	Joan George, Vanessa Miro, and Dennis McDougall	Phase I Archaeological Assessment of Approximately 8,000 Feet for the Classic Club Golf Course Pipeline Project, Unincorporated Riverside County, California	Applied EarthWorks	33-009498
RI-09245		2006	Brian K. Glenn	CULTURAL RESOURCES INVENTORY WITHIN THE PROPOSED MID-VALLEY PIPELINE PROJECT AREA RIVERSIDE COUNTY, CALIFORNIA	Pacific West Archaeology, Inc.	
RI-09916		2005	Wayne H. Bonner, Marnie Aislin-Kay, and Alynne Loupe	Cultural Resource Records Search and Site Visit Results for Cingular Telecommunications Facility Candidate RS-0094-02 (Palm Valley Country Club), 765-1 Begonia Lane, City of Palm Desert, Riverside County, California	Michael Brandman Associates	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-00714	NADB-R - 1080764; Voided - MF-0636	1979	Roger J. Desautels	Archaeological Survey Report on the Proposed Mobile Home Site (460 Acres) Located in the Myoma Area of the County of Riverside	Scientific Resource Surveys, Inc., Santa Ana, CA	
RI-00715	NADB-R - 1085344; Voided - MF-0636	1998	Jean A. Keller	A Phase I Cultural Resources Assessment of Amendment to Specific Plan 151, 460 Acres of Land Located Near Palm Desert, Riverside County USGS Myoma, California Quadrangle, 7.5 Series	Cultural Resources Consultant, Temecula, CA	
RI-00733	NADB-R - 1080782; Other - DACW09-78-MO9862; Submitter - 0489; Voided - MF-0652	1979	James D. Swenson	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Tract 15002 Near Bermuda Dunes, Riverside County, California	Archaeological Research Unit, U.C. Riverside	
RI-00763	NADB-R - 1080815; Voided - MF-0685	1980	Mary A. Brown	Cultural Resource Assessment got "The Dunes" Conominium Project in Bermuda Dunes, Riverside County, California	Consulting Archaeologists, Riverside, CA	
RI-01103	NADB-R - 1081205; Voided - MF-1048	1980	David M. Van Horn	Archaeological Survey Report: A 350 Acre Parcel Located Adjacent to Country Club Drive Near Palm Desert in the County of Riverside, California	Archaeological Associates, Costa Mesa, CA	
RI-01122	NADB-R - 1081222; Voided - MF-1063	1981	Christopher E. Drover	Environmental Impact Evaluation: Archaeological Assessment of the Proposed Extensions of the Monterey and 34th Avenues Near Thousand Palms, California	Consulting Archaeologist	
RI-01301	NADB-R - 1085812; Submitter - 573	2000	Bruce Love, Michael Hogan, Mariam Dahdul, and Adrian Sanchez Moreno	Historical/Archaeological Resources Survey Report, Tentative Parcel Map 29829, Community of Bermuda Dunes, Riverside County, California	CRM TECH, Riverside, CA	
RI-01362	NADB-R - 1081590; Voided - MF-1414	1981	James D. Swenson	Environmental Impact Evaluation: An Archaeological Assessment of the Proposed Desert Falls Country Club Site in the Coachella Valley, Riverside County, California	Archaeological Research Unit, Riverside, CA	
RI-01441	NADB-R - 1081690; Voided - MF-1507	1981	SCIENTIFIC RESOURCE SURVEYS, INC.	ARCHAEOLOGICAL SURVEY REPORT ON TT 16789 LOCATED NEAR THE CITY OF INDIO, RIVERSIDE COUNTY CALIFORNIA	AUTHOR(S)	33-001303, 33-001638, 33-001769
RI-01442	NADB-R - 1083248; Voided - MF-1507	1989	SCIENTIFIC RESOURCE SURVEYS	ARCHAEOLOGICAL SURFACE COLLECTION AT TWO LOCATIONS ON TRACT 23317 BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	SCIENTIFIC RESOURCE SURVEYS	33-001303, 33-001638

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-01812	NADB-R - 1082162; Voided - MF-1955	1984	LERCH, MICHAEL K. and GERALD SMITH	CULTURAL RESOURCES ASSESSMENT OF THE PROPOSED RUSSELL ROWE CONDOMINIUM PROJECT, PALM DESERT, RIVERSIDE COUNTY, CALIFORNIA	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
RI-01867	NADB-R - 1082242; Submitter - 0798; Voided - MF-2026	1984	PARR, ROBERT A.	AN ARCHAEOLOGICAL ASSESSMENT OF 24 ACRES OF LAND NEAR BERMUDA DUNES IN RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	
RI-01929	NADB-R - 1082324; Voided - MF-2100	1985	SALPAS, JEAN A.	AN ARCHAEOLOGICAL ASSESSMENT OF TRACT 20647 - RIVERSIDE COUNTY, CALIFORNIA	AUTHOR(S)	
RI-01935	NADB-R - 1082326; Voided - MF-2102	1985	BISSELL, RONALD M.	A CULTURAL RESOURCES EVALUATION OF LOTS 162 THROUGH 165, BLOCK 192, ASSESSOR'S MAP BOOK 609, PAGE 19, BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	AUTHOR(S)	
RI-02017	NADB-R - 1082441; Voided - MF-2207	1985	KELLER, JEAN SALPAS	AN ARCHAEOLOGICAL ASSESSMENT OF PLOT PLAN 8721, RIVERSIDE COUNTY, CALIFORNIA	AUTHOR(S)	
RI-02018	NADB-R - 1082442; Voided - MF-2208	1985	KELLER, JEAN SALPAS	AN ARCHAEOLOGICAL ASSESSMENT OF PLOT PLAN 8722, RIVERSIDE COUNTY, CALIFORNIA	AUTHOR(S)	
RI-02112	NADB-R - 1082541; Voided - MF-2303	1988	BINNING, JEANNE D.	ARCHAEOLOGICAL ASSESSMENT OF PLOT PLAN 9503, EA NO. 31262, BERMUDA DUNES, RIVERSIDE COUNTY - SUPPLEMENT	GREENWOOD AND ASSOCIATES	
RI-02113	NADB-R - 1082542; Voided - MF-2303	1987	BINNING, JEANNE DAY	ARCHAEOLOGICAL ASSESSMENT OF PLOT PLAN 9503, EA NO 31262, BERMUDA DUNES, RIVERSIDE COUNTY	GREENWOOD AND ASSOCIATES	
RI-02315	NADB-R - 1082772; Voided - MF-2516	1987	WHITNEY-DESAUTELS, NANCY	ARCHAEOLOGICAL ASSESSMENT FORM: BERMUDA DUNES PROJECT	SCIENTIFIC RESOURCE SURVEYS, INC.	
RI-02425	NADB-R - 1082918; Voided - MF-2659	1989	YOHE, ROBERT M. II	AN ARCHAEOLOGICAL ASSESSMENT OF TT 24379 / CHANGE OF ZONE 5402 LOCATED IN THE BERMUDA DUNES AREA OF RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	
RI-02480	NADB-R - 1082916; Voided - MF-2712	1989	MCCARTHY, DANIEL F.	AN ARCHAEOLOGICAL ASSESSMENT OF TT 24685 LOCATED IN THE BERMUDA DUNES AREA OF RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-02765	NADB-R - 1083375; Submitter - 1068; Voided - MF-2969	1990	ARKUSH, BROOKE	AN ARCHAEOLOGICAL ASSESSMENT OF THE PROPOSED MID-VALLEY STORMWATER CHANNEL LOCATED IN THE COACHELLA VALLEY OF CENTRAL RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	33-003439, 33-003440, 33-003867
RI-02985	NADB-R - 1083525; Submitter - 997; Voided - MF-3206	1989	YOHE, ROBERT M. II	AN ARCHAEOLOGICAL ASSESSMENT OF TENTATIVE TRACT 24030 LOCATED IN THE BERMUDA DUNES AREA OF RIVERSIDE COUNTY, CALIFORNIA.	ARCHAEOLOGICAL RESEARCH UNIT, UCR	
RI-03499	NADB-R - 1084184; Voided - MF-3762	1992	DROVER, CHRISTOPHER	A CULTURAL RESOURCES ASSESSMENT OF THE TEN ACRE TENTATIVE TRACT 27516, LA QUINTA USGS QUAD, RIVERSIDE COUNTY, CALIFORNIA	AUTHOR	
RI-03625	NADB-R - 1084363; Submitter - 1218; Voided - MF-3912	1993	HOGAN, MICHAEL and TOM TANG	ARCHAEOLOGICAL SURVEY OF THE CARVER PROJECT LOCATED IN THE CITY OF PALM DESERT, RIVERSIDE COUNTY, CA.	ARCHAEOLOGICAL RESEARCH UNIT	33-005080
RI-04052	NADB-R - 1085181; Submitter - 289; Voided - MF-4493	1997	LOVE, BRUCE and BAI "TOM" TANG	CULTURAL RESOURCES REPORT CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO COACHELLA VALLEY CAMPUS CITY OF PALM DESERT RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	
RI-04182	NADB-R - 1085389; Submitter - 374; Voided - MF-4659	1999	LOVE, BRUCE and BAI "TOM" TANG	CULTURAL RESOURCES REPORT: TRACT MAP NO. 23778, BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	
RI-04189	NADB-R - 1085394; Submitter - 394; Voided - MF-4664	1999	LOVE, BRUCE, BAI "TOM" TANG, and MICHAEL HOGAN	CULTURAL RESOURCES REPORT: WASHINGTON SQUARE PROJECT AT THE CORNER OF WASHINGTON STREET AND 42ND AVENUE NEAR THE COMMUNITY OF BEMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	
RI-04285	NADB-R - 1085540; Submitter - RLM031; Voided - MF-4770	2000	DELU, ANTONINA and PHILIPPE LAPIN	CULTURAL RESOURCES ASSESSMENT: WASHINGTON STREET RETENTION BASIN PROJECT, PALM DESERT, RIVERSIDE COUNTY, CALIFORNIA.	LSA ASSOCIATES	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-04328	NADB-R - 1085620; Submitter - 98-1355; Voided - MF-4827	1999	BISSELL, RONALD M.	CULTURAL RESOURCES RECONNAISSANCE FOR IMPROVEMENTS TO WASHINGTON STREET BETWEEN COUNTRY CLUB DRIVE AND FRED WARING DRIVE, PALM DESERT, LA QUINTA AND BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA.	RMW PALEO	
RI-04495	NADB-R - 1085856; Submitter - 010409	2001	BROCK, JAMES	PHASE I ARCHAEOLOGICAL/HISTORICAL RESOURCES ASSESSMENT FOR TENTATIVE TRACT MAP NO. 29991, BERMUDA DUNES AREA OF UNINCORPORATED RIVERSIDE COUNTY, CALIFORNIA (EA 38236; APN 607-170-005)	ARCHAEOLOGICAL ADVISORY GROUP	
RI-04622	NADB-R - 1085981	2003	MOURIQUAND, LESLIE J.	PHASE I CULTURAL RESOURCES INVESTIGATION OF 20-ACRES LOCATED SOUTH OF AVENUE 41, AT STARLIGHT LAND EXTENDED, IN BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	THE KEITH COMPANIES	
RI-04763	NADB-R - 1086125; Submitter - 6TI130	2002	DUKE, CURT	CULTURAL RESOURCE ASSESSMENT, AT&T WIRELESS SERVICES FACILITY NO. D472A, RIVERSIDE COUNTY, CALIFORNIA	LSA ASSOCIATES, INC.	
RI-05132	NADB-R - 1086494; Submitter - 40863.02.000	2005	THE KEITH COMPANIES	ARCHAEOLOGICAL MONITORING REPORT: STONEGATE PROJECT, BERMUDA DUNES, COUNTY OF RIVERSIDE, CALIFORNIA	THE KEITH COMPANIES	
RI-05219	NADB-R - 1086582	2001	WHITE, LAURIE	LETTER REPORT: RECORDS SEARCH RESULTS FOR SPRINT PCS FACILITY RV03XC083E (SOCCER PARK), CITY PF PALM DESERT, RIVERSIDE COUNTY, CA	MICHAEL BRANDMAN ASSOCIATES	
RI-05867	NADB-R - 1087230; Submitter - 655	2000	LOVE, BRUCE, BAI TANG, DANIEL BALLESTER, and MARIAM DAHDUL	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT, TENTATIVE PARCEL MAP NO. 29957, 78-975 DARBY ROAD, BERMUDA DUNES, RIVERSIDE COUNTY, CA	CRM TECH	
RI-06657	NADB-R - 1088024; Submitter - CRM TECH CONTRACT #1953	2006	TANG, BAI "TOM", MICHAEL HOGAN, CLARENCE BODMER, LISA HUNT, and LAURA H. SHAKER	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT, ASSESSOR'S PARCEL NO. 609-061-014, NEAR THE COMMUNITY OF BERMUDA DUNES, RIVERSIDE COUNTY, CALIFORNIA	CRM TECH	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-07195	Submitter - GTI130	2002	Duke, Curt	Cultural Resource Assessment: AT&T Wireless Services, Facility No. D472C, Riverside County, California	LSA Associates	
RI-07266		2007	Bai Tom Tang and Michael Hogan	Historical/Archaeological Resources Survey Report: Assessor's Parcel No. 607-130-010 in Bermuda Dunes Area of Riverside County, California	CRM TECH	
RI-07273		2006	Robert S. White, Laura S. White, and David M. Van Horn	A Cultural Resources Assessment of A 8.54-Acre Parcel as Shown on TTM 34546, Southwest of the Intersection of Darby Road and Adams Street, Bermuda Dunes, Unincorporated Riverside County	Archaeological Associates	33-015453
RI-07318		2006	Bonner, Wayne and Aislin-Kay, Marnie	Cultural Resource Records Search and Site Visit Results for T-Mobile Candidate IE04958A (Byron), 42488 Byron Place, Bermuda Dunes, Riverside County, California	Michael Brandman Associates	
RI-08262	Submitter - LA3638A	2009	Carla Allred	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): LA-3638A/ Stor America TCNS# 53110	EarthTouch, Inc.	
RI-08280		2009	Carla Allred	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): LA-3635A/ Bermuda Dunes Country Club TCNS# 59940	Earth Touch, Inc., Layton, UT	
RI-08496		2010	Michael Mirro	Letter Report: Cultural Resources Records Search for Shot Points Located on Private Lands for the U.S. Geological Survey (USGS) Salton Seismic Imaging Proje--> Addendum	Applied EarthWorks	
RI-08540		2010	Bai "Tom" Tang and Michael Hogan	Identification and Evaluation of Historic Properties Indio Water Authority Wastewater Treatment Project Cities of Indio and La Quinta Riverside County, California	CRM TECH	
RI-08739	Submitter - CRM Tech Contract No. 2571	2011	Bai Tom Tang, Michael Hogan, and Nina Gallardo	Historical/Archaeological Resources Survey Washington Street Apartments Project	CRM Tech	
RI-09279		2015	Bai Tang, Ben Kerridge, Daniel Ballester, and Nina Gallardo	Phase I Historical/Archaeological Resources Survey: Santa Rosa Golf Club and Catavina Property City of Palm Desert, Riverside County, California	CRM TECH	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-09595		2014	Heather R. Puckett	Cultural Resources Summary for the Proposed Verizon Wireless, Inc., Property at the Sweetwater Site, 40004 Cook Street, Palm Desert, Riverside County, California 92211	TETRA TECH, INC.	
RI-09768	CRM Tech Contract # 538	2000	Bruce Love and Bai "Tom" Tang	Cultural Resource Element City of La Quinta General Plan	CRM Tech	
RI-09889		2016	BAI TANG and MICHAEL HOGAN	ASSESSORS PARCEL NUMBERS 694-300-001, -002...	CRM TECH	
RI-09897		2016	Bai "Tom" Tang	Cultural Resources Regulatory Compliance Analysis Bermuda Dunes Country Club Non-potable Water Pipeline Extension Project Bermuda Dunes Area, Riverside County, California CRM TECH Contract No. 3151	CRM TECH	
RI-10079	Other - SJP-K148-1604	2002	Fred E. Budinger, Jr.	Proposed Wireless Device Monopole and Equipment Cabinet; Woodhaven Site, 41800 42nd avenue, indio, California, 92201.	Tetra Tech, Inc.	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-33-005080	CA-RIV-005080	Other - ARU #1218-1		Prehistoric		1993 (M. Hogan, K. Moffitt, Archaeological Research Unit, UC Riverside)	RI-03625
P-33-011088			Other	Prehistoric			
P-33-012721			Other	Historic			
P-33-015453				Historic		2006 (White, Laura S., Archaeological Associates)	RI-07273
P-33-024573	CA-RIV-012188		Site	Historic		2015 (Riordan Goodwin, LSA Associates)	

Appendix B

Native American Scoping and Historical Group Outreach

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Fax (916) 373-5471
Email: nahc@nahc.ca.gov
Website: <http://www.nahc.ca.gov>



December 15, 2017

Lindsay Porras
Rincon Consultants, Inc.

Emailed to: lporrs@ribnconconsultants.com

RE: Coachella Valley Water District's (CVWD) Non-Potable Water (NPW), Riverside County.

Dear Ms. Porras:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 373-3712.

Sincerely,

A handwritten signature in blue ink that reads "Katy Sanchez".

Katy Sanchez
Associate Environmental Planner

Attachment

Native American Heritage Commission
Native American Contacts
12/14/2017

Aqua Caliente Band of Cahuilla Indians
Jeff Grubbe, Chairperson
5401 Dinah Shore Drive Cahuilla
Palm Springs , CA 92264
(760) 699-6800

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Aqua Caliente Band of Cahuilla Indians
Patricia Garcia-Plotkin, Director, THPO
5401 Dinah Shore Drive Cahuilla
Palm Springs , CA 92264
ACBCI-THPO@aguacaliente.net
(760) 699-6907
(760) 567-3761 Call
(760) 699-6924 Fax

Augustine Band of Cahuilla Indians
Amanda Vance, Chairperson
P.O. Box 846 Cahuilla
Coachella , CA 92236
(760) 398-4722
(760) 369-7161 Fax

Cabazon Band of Mission Indians
Doug Welmas, Chairperson
84-245 Indio Springs Parkway Cahuilla
Indio , CA 92203
(760) 342-2593

(760) 347-7880 Fax

Cahuilla Band of Mission Indians
Daniel Salgado, Chairperson
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Anza , CA 92539
Chairman@cahuilla.net
(951) 763-5549
(951) 763-2808

Chemehuevi Indian Tribe
Charles F. Wood, Chairperson
P.O. Box 1976 Chemehuevi
Havasu Lake , CA 92363
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(760) 858-5400 Fax

Cocopah Indian Reservation
H. Jill McCormick, Tribal Archaeologist
County 15th & Avenue G Cocopah
Somerton , AZ 85350
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(928) 530-2291

Colorado River Indian Tribes of the Colorado River Indian Reservation
Dennis Patch, Chairman
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Parker , AZ 85344 Chemehuevi
crit.museum@yahoo.com
(928) 669-9211 Tribal Office
(928) 669-2070 Ext 21
(928) 669-1925 Fax

Fort Moiave Indian Tribe
Timothy Williams, Chairperson
500 Merriman Ave Moiave
Needles , CA 92363
(760) 629-4591

(760) 629-5767 Fax

Gabrielino Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
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Covina , CA 91723
gabrielenoindians@yahoo.com
(626) 926-4131

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessments for the proposed Coachella Valley Water District (CVWD) Non-Potable Water (NPW) Connections Project, Riverside County.

**Native American Heritage Commission
Native American Contacts
12/14/2017**

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 San Gabriel, CA 91778
 GTTribalcouncil@aol.com
 (626) 483-3564 Cell
 (626) 286-1262 Fax

Gabrielino Tonava

Juaneno Band of Mission Indians Acjachemen Nation
 Joyce Perry, Tribal Manager
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 Irvine, CA 92612
 kaamalam@aol.com
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Juaneno

Gabrielino /Tonava Nation
 Sandonne Goad, Chairperson
 106 1/2 Judge John Aiso St., #231
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Gabrielino Tonava

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 Thomas Rodriguez, Chairperson
 22000 Highway 76
 Pauma Valley, CA 92061
 (760) 742-3771

Luiseno

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Juaneno Band of Mission Indians
 Sonia Johnston, Tribal Chairperson
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Juaneno

Los Covotes Band of Cahuilla and Cupeno Indians
 Shane Chapparosa, Chairman
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 Warner Springs, CA 92086-01
 Chapparosa@msn.com
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Cahuilla

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Juaneno

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 12700 Pumarra Road
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 (951) 755-5200
 (951) 922-8146 Fax

Cahuilla
Serrano

(949) 444-4340 (Cell)

Juaneno Band of Mission Indians Acjachemen Nation
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 San Juan Capistrano, CA 92675
 tromero@juaneno.com
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 (949) 354-5276 Cell
 (949) 488-3294 Fax

Juaneno

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 Pala, CA 92059
 sgaughen@palatribe.com
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 (760) 742-3189 Fax

Luiseno
Cubeno

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**Native American Heritage Commission
Native American Contacts
12/14/2017**

Pala Band of Mission Indians
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Luiseno
Cupeno

Rincon Band of Luiseño Indians
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Luiseno

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Luiseno

San Fernando Band of Mission Indians
John Valenzuela, Chairperson
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Newhall, CA 91322
(760) 885-0955 Cell

Fernandeno
Tataviam
Serrano
Vanyume
Kitanemuk

(760) 742-3422 Fax

Pechanga Band of Luiseño Indians
Mark Macarro, Chairman
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Temecula, CA 92593
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Luiseno

San Luis Rev Band of Mission Indians
Tribal Council
1889 Sunset Drive
Vista, CA 92081
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(760) 724-8505

Luiseno

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(760) 724-2172 Fax

Quechan Tribe of the Fort Yuma Indian Reservation
Michael Jackson, Sr., President
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oitores@quechantribe.com
(760) 572-0213

Quechan

San Manuel Band of Mission Indians
Lee Clauss, Director-CRM Dept.
26569 Community Center Drive
Highland, CA 92346
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Serrano

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(909) 864-3370 Fax

Ramona Band of Cahuilla
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Cahuilla

San Manuel Band of Mission Indians
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Highland, CA 92346
(909) 864-8933

Serrano

(951) 763-4325 Fax

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**Native American Heritage Commission
Native American Contacts
12/14/2017**

Santa Rosa Band of Cahuilla Indians
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Anza, CA 92539
(951) 659-2700

(951) 659-2228 Fax

Twentv-Nine Palms Band of Mission Indians
Anthony Madrigal, Jr. THPO
46-200 Harrison Place Chemehuevi
Coachella, CA 92236
amadrigal@29palmsbomi-nsn.gov
(760) 775-3259
(760) 625-7872 Call
(760) 863-2449 Fax

Serrano Nation of Mission Indians
Goldie Walker, Chairperson
P.O. Box 343 Serrano
Patton, CA 92369

(909) 528-9027

(909) 528-9027

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 Luiseno
San Jacinto, CA 92581 Cahuilla
jontiveros@soboba-nsn.gov

(951) 663-5279

(951) 654-5544 ext 4137

(951) 654-4198 Fax

Torres-Martinez Desert Cahuilla Indians
Michael Mirelez, Cultural Resource Coordinator
P.O. Box 1160 Cahuilla
Thermal, CA 92274
mmirelez@tmdci.org

(760) 399-0022, Ext. 1213

(760) 397-8146 Fax

Twentv-Nine Palms Band of Mission Indians
Darrell Mike, Chairperson
46-200 Harrison Place Chemehuevi
Coachella, CA 92236
29chairman@29palmsbomi-nsn.gov

(760) 863-2444

(760) 863-2449 Fax

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessments for the proposed Coachella Valley Water District (CVWD) Non-Potable Water (NPW) Connections Project, Riverside County.

NATIVE AMERICAN HERITAGE COMMISSION

Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710



March 7, 2018

Lindsay Porras
Rincon Consultants, Inc.

Sent by E-mail: lporras@rinconconsultants.com

RE: Proposed Coachella Valley Water District's (CVWD) Non-Potable Water (NPW) Connections Project, City of Palm Desert; Cathedral City, Myoma, and La Quinta USGS Quadrangles, Riverside County, California

Dear Ms. Porras:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is an UPDATED list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst
(916) 373-3714

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**Native American Heritage Commission
Native American Contact List
Riverside County
3/7/2018**

**Agua Caliente Band of Cahuilla
Indians**

Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive Cahuilla
Palm Springs, CA, 92264 Luiseno
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

Ewiiaapaayp Tribal Office

Robert Pinto, Chairperson
4054 Willows Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126

**Agua Caliente Band of Cahuilla
Indians**

Jeff Grubbe, Chairperson
5401 Dinah Shore Drive Cahuilla
Palm Springs, CA, 92264 Luiseno
Phone: (760) 699 - 6800
Fax: (760) 699-6919

Ewiiaapaayp Tribal Office

Michael Garcia, Vice Chairperson
4054 Willows Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
michaelg@leaningrock.net

**Augustine Band of Cahuilla
Mission Indians**

Amanda Vance, Chairperson
P.O. Box 846 Cahuilla
Coachella, CA, 92236
Phone: (760) 398 - 4722
Fax: (760) 369-7161

Jamul Indian Village

Erica Pinto, Chairperson
P.O. Box 612 Kumeyaay
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817

**Cabazon Band of Mission
Indians**

Doug Welmas, Chairperson
84-245 Indio Springs Parkway Cahuilla
Indio, CA, 92203
Phone: (760) 342 - 2593
Fax: (760) 347-7880

**La Posta Band of Mission
Indians**

Gwendolyn Parada, Chairperson
8 Crestwood Road Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

Cahuilla Band of Indians

Daniel Salgado, Chairperson
52701 U.S. Highway 371 Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 5549
Fax: (951) 763-2808
Chairman@cahuilla.net

**La Posta Band of Mission
Indians**

Javaughn Miller, Tribal
Administrator
8 Crestwood Road Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

Campo Band of Mission Indians

Ralph Goff, Chairperson
36190 Church Road, Suite 1 Kumeyaay
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

**Los Coyotes Band of Mission
Indians**

Shane Chapparosa, Chairperson
P.O. Box 189 Cahuilla
Warner Springs, CA, 92086-0189
Phone: (760) 782 - 0711
Fax: (760) 782-0712
Chapparosa@msn.com

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**Native American Heritage Commission
Native American Contact List
Riverside County
3/7/2018**

**Los Coyotes Band of Mission
Indians**

John Perada, Environmental
Director
P. O. Box 189 Cahuilla
Warner Springs, CA, 92086
Phone: (760) 782 - 0712
Fax: (760) 782-2730

**Ramona Band of Cahuilla
Mission Indians**

John Gomez, Environmental
Coordinator
P. O. Box 391670 Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
jgomez@ramonatribe.com

**Manzanita Band of Kumeyaay
Nation**

Angela Elliott Santos, Chairperson
P.O. Box 1302 Kumeyaay
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

**San Pasqual Band of Mission
Indians**

Allen E. Lawson, Chairperson
P.O. Box 365 Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

**Morongo Band of Mission
Indians**

Denisa Torres, Cultural Resources
Manager
12700 Pumarra Rroad Cahuilla
Banning, CA, 92220 Serrano
Phone: (951) 849 - 8807
Fax: (951) 922-8146
dtorres@morongo-nsn.gov

**San Pasqual Band of Mission
Indians**

John Flores, Environmental
Coordinator
P. O. Box 365 Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

**Morongo Band of Mission
Indians**

Robert Martin, Chairperson
12700 Pumarra Rroad Cahuilla
Banning, CA, 92220 Serrano
Phone: (951) 849 - 8807
Fax: (951) 922-8146

**Santa Rosa Band of Mission
Indians**

Steven Estrada, Chairperson
P.O. Box 391820 Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228

**Ramona Band of Cahuilla
Mission Indians**

Joseph Hamilton, Chairperson
P.O. Box 391670 Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
admin@ramonatribe.com

**Soboba Band of Luiseno
Indians**

Scott Cozart, Chairperson
P. O. Box 487 Cahuilla
San Jacinto, CA, 92583 Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198

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**Native American Heritage Commission
Native American Contact List
Riverside County
3/7/2018**

**Soboba Band of Luiseno
Indians**

Joseph Ontiveros, Cultural
Resource Department
P.O. BOX 487
San Jacinto, CA, 92581
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Cahuilla
Luiseno

**Twenty-Nine Palms Band of
Mission Indians**

Darrell Mike, Chairperson
46-200 Harrison Place
Coachella, CA, 92236
Phone: (760) 863 - 2444
Fax: (760) 863-2449
29chairman@29palmsbomi-
nsn.gov

Chemehuevi

**Soboba Band of Luiseno
Indians**

Carrie Garcia, Cultural Resources
Manager
P. O. Box 487
San Jacinto, CA, 92583
Phone: (951) 654 - 2765
Fax: (951) 654-4198
carriega@soboba-nsn.gov

Cahuilla
Luiseno

**Twenty-Nine Palms Band of
Mission Indians**

Anthony Madrigal, Tribal Historic
Preservation Officer
46-200 Harrison Place
Coachella, CA, 92236
Phone: (760) 775 - 3259
amadrigal@29palmsbomi-nsn.gov

Chemehuevi

**Sycuan Band of the Kumeyaay
Nation**

Cody J. Martinez, Chairperson
1 Kwaaypaay Court
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Kumeyaay

**Viejas Band of Kumeyaay
Indians**

Robert Welch, Chairperson
1 Viejas Grade Road
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

Kumeyaay

**Sycuan Band of the Kumeyaay
Nation**

Lisa Haws, Cultural Resources
Manager
1 Kwaaypaay Court
El Cajon, CA, 92019
Phone: (619) 312 - 1935
lhaws@sycuan-nsn.gov

Kumeyaay

**Viejas Band of Kumeyaay
Indians**

Julie Hagen,
1 Viejas Grade Road
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

Kumeyaay

**Torres-Martinez Desert Cahuilla
Indians**

Michael Mirelez, Cultural
Resource Coordinator
P.O. Box 1160
Thermal, CA, 92274
Phone: (760) 399 - 0022
Fax: (760) 397-8146
mmirelez@tmdci.org

Cahuilla

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Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

909 253 0705 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

Native American Contact Table
Coachella Valley Water District (CVWD) 2017/2018 Non-Potable Connections
Project, Riverside County, California



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Jeff Grubbe, Chairperson	Agua Caliente Band of Cahuilla Indians (ACBCI)	5401 Dinah Shore Drive Palm Springs, CA 92264		(760) 699-6800	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 Via phone; was transferred to Patricia Garcia-Plotkin, THPO, who answered on behalf of Jeff Grubbe 3/6/2018 Rincon responded to the request via email stating that the response has been received and upon completion of a draft report for this study, Rincon will request permission from the Coachella Valley Water District to provide it to ACBCI	Ms. Patricia Garcia-Plotkin, THPO, stated over the phone that ACBCI responds to all letters but they currently have limited staff to answer; Rincon should hear from them within about 3 weeks. Rincon will follow up in two weeks with a phone call. 1/29/18 Ms. Garcia-Plotkin called and stated that she has not yet processed the letter. Ms. Garcia-Plotkin requested that we send her an electronic version of the letter with a map of the project area; she also requested we send her the results of the Records Search and field Survey. She hopes to process the letter within a week (one week would be 2/5/18). On 1/29/2018 Rincon sent an electronic version of the letter and map of the project area to Ms. Garcia-Plotkin. 3/1/18 Received email with attached letter from Katie Croft Cultural Resources Manager stating ACBCI would like copy of records search results, cultural resources inventory of the project area, copies of any cultural documentation (site records and reports) generated in connection with this project.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Patricia Garcia-Plotkin, Director, THPO	Agua Caliente Band of Cahuilla Indians (ACBCI)	5401 Dinah Shore Drive Palm Springs, CA 92264	ACBCI-THPO@aguacaliente.net	(760) 699-6907	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 1/26/2018 3/6/2018 Rincon responded to the request via email stating that the response has been received and upon completion of a draft report for this study, Rincon will request permission from the Coachella Valley Water District to provide it to ACBCI	1/9/2018: Spoke with Patricia THPO via phone and she said they respond to all letters but at this time they have limited staff to answer the letters; should hear from them within 3 weeks; follow up within 3 weeks with phone call (Jan 30). 1/26/2018: Left voice message 1/29/2018: Patricia called and stated that she has not yet processed the letter She requested that we send her an electronic version of the letter with a map of the project area; she also requested we send her the results of the Records Search and field Survey. She hopes to process the letter within a week (one week from today would be 2/5/18). 3/1/18 Received email with attached letter from Katie Croft Cultural Resources Manager stating ACBCI would like copy of records search results, cultural resources inventory of the project area, copies of any cultural documentation (site records and reports) generated in connection with this project.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Amanda Vance, Chairperson	Augustine Band of Cahuilla Indians	P.O. Box 846 Coachella, CA 92236		(760) 398-4722	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 1/22/2018 4/10/2018 Rincon responded to the request via phone call stating the response has been received and that the request will be documented in the report for this study.	Left voice message Left voice message Received letter from Amanda Vance dated January 10, 2018 stating: "unaware of specific cultural resources that may be affected by the proposed project...encourage you to contract with a monitor who is qualified in NA cultural resources identification and who is able to be present on site full-time during pre-construction and construction phase of the project. Please notify immediately should you discover any cultural resources during the development of this project."
Doug Welmas, Chairperson	Cabazon Band of Mission Indians	84-245 Indio Springs Parkway Indio, CA 92203		(760) 342-2593	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 1/22/2018	Left voice message Transferred to: Jacolyn Barnom director of environmental affairs; left voice messages. Received email letter on March 22, 2018 from Judy Strapp, Director of Cultural Affairs stating the project is located outside of the Tribe's current reservation boundaries; the Tribe has no specific archival information on the project site.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Daniel Salgado, Chairperson	Cahuilla Band of Mission Indians	52701 U.S. Highway 371 Anza, CA 92593	Chairman@cahuilla.net	(951) 763-5549	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 1/22/2018	Spoke with admin and they suggested the best way to follow up is to send email to chairman@cahuilla.net ; sent email to recommended address. Resent email with letter reference. On 1/24/2018, Bobby Ray Esparza, Cultural Coordinator, responded via email stating that the Cahuilla Band does not have any known knowledge of any cultural resources that exist within or near the project area. The Cahuilla band requested we get in contact with the Agua Caliente Band of Indians.
Charles F. Wood, Chairperson	Chemehuevi Indian Tribe	P.O. Box 1976 Havasu Lake, CA 92363	chairman@cit-nsn.gov	(760) 858-4219	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/9/2018 1/22/2018	Left voice message Left voice message
H. Jill McCormick, Tribal Archaeologist	Cocopah Indian Reservation	County 15th & Avenue G Sommerton, AZ 85350	culturalres@cocopah.com	(928) 530-2291	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/4/2018	1/4/18 Responded via email letter stating: "we wish to make no comments on the development of the project"



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Dennis Patch, Chairman	Colorado River Indian Tribes of the Colorado River Indian Reservation	26600 Mojave Road Parker, AZ 85344	crit.museum@yahoo.com	(928) 669-9211	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/10/2018 1/22/2018	Unable to leave message Spoke with admin: I gave them my contact info and project name; they will pass the message/info along to Dennis Patch.
Timothy Williams, Chairperson	Fort Mojave Indian Tribe	500 Merriman Ave Needles, CA 92363		(760) 629-4591	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/10/2018 1/22/2018	Left voice message Spoke with Victoria Hernandez who requested I email her a copy of the letter to: victoriahernandez@fortmojave.com ; sent email with copy of letter
Andrew Salas, Chairperson	Gabrieleno Band of Mission Indians – Kizh Nation	P.O. Box 393 Covina, CA 91723	gabrielenoindians@yahoo.com	(626) 926-4131	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/10/2018	Andrew Salas Answered phone and politely stated that the. Location of this project is outside of their ancestral territory; he recommended we contact the Cahuilla .
Anthony Morales, Chairperson	Gabrieleno/Tongva San Gabriel Band of Mission Indians	P.O. Box 693 San Gabriel, CA 91778	GTtribalcouncil@aol.com	(626) 483-3564	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/10/2018	Answered the phone. Stated that the project area is beyond their ancestral territory and recommended talking with the Cahuilla contacts.
Sandonee Goad, Chairperson	Gabrieleno/Tongva Nation	106 ½ Judge John Aiso St., #231 Los Angeles, CA 90012	sgoad@gabrielino-tongva.com	(951) 807-0479	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left voice message Left voice message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Sonia Johnston, Tribal Chairperson	Juañeno Band of Mission Indians	P.O. Box 25628 Santa Ana, CA 92799	sonia.johnston@sbcglobal.net	N/A	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Sent email to sonia.johnston@sbcglobal.net Sent follow-up email to Sonia.johnston@sbcglobal.net
Matias Belardes, Chairperson	Juanenon Band of Mission Indians Acjachemen Nation	32161 Avenida los Amigos San Juan Capistrano CA 92675	Kaamalam@gmail.com	(949) 444-4340	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Spoke on phone and he stated that the project area is Outside their tribal territory; said if they didn't respond to letter then they likely have no comments; also said that Joyce Perry is the main contact who responds to letters.
Teresa Romero, Chairwoman	Juaneno Band of Mission Indians Acjachemen Nation	31411 A La Matanza Street San Juan Capistrano, CA 92675	tromero@juaneno.com	(949)-488-3484	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left voice message. Left voice message
Joyce Perry, Tribal Manager	Juaneno Band of Mission Indians Acjachemen Nation	4955 Paseo Seqovia, Irvine, CA 92612	kaamalam@gmail.com	(949) 293-8522	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left voice message Left voice message
Thomas Rodriguez, Chairperson	LA Jolla Band of Luiseno Indians	22000 Highway 76 Pauma Valley, CA 92061	N/A	(760) 742-3771	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Line was busy; unable to leave message. Mailbox was full; unable to leave message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Shane Chapparosa, Chairman	Los Coyotes Band of Cahuilla and Cupeno Indians	P.O. Box 189 Warner Springs, CA 92086-01	Chapparosa@msn.com	(760) 782-0711	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Spoke with admin and they took a message from me; they said that Chairman Chapparosa has been out for a couple weeks for conferences and has recently returned and will be reviewing his mail and will call me back if he has any comments. Spoke with admin; they took a message and also suggested I send an email to chapparosa@msm.com Sent email
Robert Martin, Chairperson	Morongo Band of Mission Indians	12700 Pumarra Road Banning, CA 92220	N/A	(951) 849-8807	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left my contact information with admin; they will pass it along to Chariperson Martin. Spoke with Robert's assistant who said she forwarded the message and will note that I called again.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Shasta Gaughen, PhD, THPO	Pala Band of Mission Indians	PMB 50 35008 Pala Temecula Rd. Pala, CA 92059	sgaughen@palatribe.com	(760) 891- 3515	Letter sent December 22, 2017 Updated letter sent March 16, 2018	12/29/2017	Responded on 12/29/17 on behalf of Robert Smith, Tribal Chairman stating: project as described is not within boundaries of recognized Pala Indian Reservation and is beyond Traditional Use Area; therefore have no objection to continuation of project activities as currently planned. Also stated that Pala Tribal Historic Preservation office is responsible for all requests for consultation and to please address correspondence to Shasta C. Gaughen; it is not necessary to also send to Pala Tribal Chairman Robert Smith.
Robert H. Smith, Chairperson	Pala Band of Mission Indians	12196 Pala Mission Road Pala, CA 92059	rsmith@palatribe.com	(760) 891- 3500	Letter sent December 22, 2017 Updated letter sent March 16, 2018	12/29/2017	Responded on 12/29/17 on behalf of Robert Smith, Tribal Chairman stating: project as described is not within boundaries of recognized Pala Indian Reservation and is beyond Traditional Use Area; therefore have no objection to continuation of project activities as currently planned. Also stated that Pala Tribal Historic Preservation office is responsible for all requests for consultation and to please address correspondence to Shasta C. Gaughen; it is not necessary to also send to Pala Tribal Chairman Robert Smith.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Temet Aguilar, Chairperson	Pauma Band of Luiseno Indians	P.O. Box 369 Pauma Valley, CA 92061	N/A	(760) 742-1289 Ext. 303	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Chris Stevers is cultural person ext.317;he stated that the Coachella valley is outside of their ancestral lands and will defer to the Cahuilla.
Mark Macarro, Chairman	Pechanga Band of Luiseño Indians	P.O. Box 1477 Temecula, CA 92593	epreston@pechanga-nsn.gov	(951) 770-6000	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left voice message. Left voice message.
Michael Jackson Sr. President	Quechan Tribe of the Fort Yuma Indian Reservation	P.O. Box 1899 Yuma, AZ 85366	aitpres@quechantribe.com	(760) 572-0213	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018 1/30/2018	Spoke with admin: Michael Jackson Sr is no longer in office. Kenny Escalante Sr is the contact; best to email him at: Executive secretary@quechantribe.com ; sent email. 1/22/2018 Resent email; 1/30/2018 Left voice message
Joseph Hamilton, Chairman	Ramona Band of Cahuilla	P.O. Box 391670 Anza, CA 92539	admin@ramonatribe.com	(951) 763-4105	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018 1/30/2018	Spoke with admin and they requested I email an electronic version of the letter to be sent to: sent email to: jgomez@ramona-nsn.gov 1/22/2018Resent email; 1/30/2018spoke with admin and they said they would check to see if the Chairman has received the letter or email.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Bo Mazzetti, Chairperson	Rincon Band of Luiseño Indians	1 West Tribal Road Valley Center, CA 92082	bomazzetti@aol.com	(760) 749-1051	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Transferred to Destiny Colocho ext 323 whom I spoke with and she pulled up the file; she stated that the project is outside Luiseno territory; she said they sent electronic response on January 3 rd ; Erica A. Ortiz-Martinez resent response from Destiny Colocho stating "identified location is not within the Luiseno Aboriginal Territory. We recommend that you locate a tribe within the project area to receive direction on how to handle any inadvertent findings according to their customs and traditions."
John Valenzuela, Chairperson	San Fernando Band of Mission Indians	P.O. Box 221838 Newhall, CA 91322	N/A	(760) 885-0955 Cell	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Attempted to leave message; mailbox was full. Attempted to leave message; mailbox was full.
Tribal Council	San Luis Rey Band of Mission Indians	1889 Sunset Drive Vista, CA 92081	cjmojado@slrmissioni ndians.org	(760) 724-8505	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Gave my contact info to admin; they will call back Communicated with me they would like to Defer to other tribes who reside closer to project; they stated that project is outside of area they monitor



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Lee Clauss, Director- CRM Dept	San Manuel Band of Mission Indians	26569 Communi ty Center Drive Highland, CA 92346	lclauss@sa nmanuel- nsn.gov	(909) 864- 8933	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Left voice message 1/12/2018 Received email reply from Jessica Mauck on behalf of SMBMI stating that the project is outside their traditional territory.:
Lynn Valbuena	San Manuel Band of Mission Indians	26569 Communi ty Center Dr. Highland, CA 92346	N/A	(909) 864- 8933	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/12/2018	Transferred to Lynn's assistant Kate Larson ; left voice message. 1/12/2018 Received email reply from Jessica Mauck on behalf of SMBMI stating that the project is outside of their traditional territory.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Jessica Mauck, Cultural Resources Analyst	San Manuel Band of Mission Indians	26569 Community Center Drive, Highland CA 92346	JMauck@sanmanuel-nsn.gov	909-864-8933 x3249	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/26/2017	<p>Received email from Jessica on December 26, 2017 stating: "...SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on 26 December 2017. The proposed project area is located outside of Serrano ancestral territory and, as such, SMBMI will not be engaging in information sharing for the cultural study, nor will the Tribe request consulting party status with the Lead Agency to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates."</p> <p>Ms. Mauck responded on 3/22/2018 stating that the project area is located outside of Serrano ancestral territory and will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents.</p>



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Steven Estrada, Chairman	Santa Rosa Band of Cahuilla Indians	P.O. Box 391820 Anza, CA 92539	grubalcava@santarosacahuilla-nsn.gov	(951) 659-2700	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Transferred to Gabriella EPA director; she requested I email her electronic letter to grubalcava@santarosacahuilla-nsn.gov She said she would try to get a response to me by COB. Sent her email Left Gabriella a voice message.
Goldie Walker, Chairperson	Serrano Nation of Mission Indians	P.O. Box 343 Patton, CA 92369		(909) 528-9027 909-528-9032	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Interested in project updates; would like to be notified if resources are found; would like to request a copy of the report following the project; would like to know if resources are uncovered during project construction.
Joseph Ontiveros, Cultural Resource Department	Soboba Band of Luiseno Indians	P.O. Box 487 San Jacinto, CA 92581	jontiveros@soboba-nsn.gov	(951) 663-5279	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Attempted to leave voice message; mailbox was full, unable to leave message. Left voice message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Michael Mirelez, Cultural Resource Coordinator	Torres-Martinez Desert Cahuilla Indians	P.O. Box 1160 Thermal, CA 92274	: mmirelez@tmdci.org	(760) 399-0022 Ext. 1213	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018 1/30/2018	Michael stated over the phone that he definitely has concerns and asked that I call him back at 1:30pm I called him back and we spoke about project location; he stated that the area is within their traditional area and that there are known villages in the area. He requested that I send him an electronic copy of the letter and map to his email. He also requested a copy of CR report when finished. Sent follow-up email with letter and map. Left voice messages to confirm if Mr. Mirelez had received the electronic copy of the letter and project area map.



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Darrell Mike, Chairperson	Twenty-Nine Palms Band of Mission Indians	46-200 Harrison Place Coachella, CA 92236	29chairman@29palmsbomi-nsn.gov	(760) 863-2444	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018	Left voice message; Sarah Bliss , Tribal Cultural Specialist, provided the following in an email: Tribal Historic Preservation Office (THPO) is not aware of any additional cultural resources or any Tribal Cultural Resources, as defined California Public Resources Code § 21074 (a) (1) (A)-(B) or historic properties (36 CFR 800) within the project area. However, because the project is located in the vicinity of the Chemehuevi Traditional Use Area the Tribe is interested in the project and will request the completed report from the Coachella Valley Water District. After our office receives a completed report we will provide additional comments to the Lead Agency.
Anthony Madrigal Jr. THPO	Twenty-Nine Palms Band of Mission Indians	46-200 Harrison Place Coachella, CA 92236	amadrigal@29palmsbomi-nsn.gov	(760) 775-3259	Letter sent December 22, 2017 Updated letter sent March 16, 2018	1/11/2018 1/22/2018	Left voice message Left voice message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Ralph Goff, Chairperson	Campo Band of Mission Indians	36190 Church Road, Suite 1 Campo, CA 91906	rgoff@campo-nsn.gov	(619) 478 - 9046	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Robert Pinto, Chairperson	Ewiiaapaayp Tribal Office	4054 Willows Road Alpine, CA 91901	N/A	(619) 445 - 6315	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Michael Garcia, Vice Chairperson	Ewiiaapaayp Tribal Office	4054 Willows Road Alpine, CA, 91901	michaelg@leaningrock.net	(619) 445 - 6315	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Erica Pinto, Chairperson	Jamul Indian Village	P.O. Box 612 Jamul, CA, 91935	N/A	(619) 669 - 4785	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Gwendolyn Parada, Chairperson	La Posta Band of Mission Indians	8 Crestwood Road Boulevard, CA, 91905	LP13boots@aol.com	(619) 478 - 2113	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Javaughn Miller, Tribal Administrator	La Posta Band of Mission Indians	8 Crestwood Road Boulevard, CA, 91905	jmiller@LPtribe.net	Phone: (619) 478 - 2113	Letter sent March 16, 2018	3/30/2018	Left Voice Message
John Perada, Environmental Director	Los Coyotes Band of Mission Indians	P. O. Box 189 Warner Springs, CA, 92086	N/A	Phone: (760) 782 - 0712	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Angela Elliott Santos, Chairperson	Manzanita Band of Kumeyaay Nation	P.O. Box 1302 Boulevard, CA, 91905	N/A	Phone: (619) 766 - 4930	Letter sent March 16, 2018	3/30/2018	Left Voice Message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Denisa Torres, Cultural Resources Manager	Morongo Band of Mission Indians	12700 Pumarra Road Banning, CA, 92220	dtorres@morongonsn.gov	Phone: (951) 849 - 8807	Letter sent March 16, 2018	3/30/2018	Office closed; Unable to leave message
John Gomez, Environmental Coordinator	Ramona Band of Cahuilla Mission Indians	P. O. Box 391670 Anza, CA, 92539	jpgomez@ramonatribe.com	Phone: (951) 763 - 4105	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Allen E. Lawson, Chairperson	San Pasqual Band of Mission Indians	P.O. Box 365 Valley Center, CA, 92082	allenl@sanpasqualtribe.org	Phone: (760) 749 - 3200	Letter sent March 16, 2018	3/30/2018	Left Voice Message
John Flores, Environmental Coordinator	San Pasqual Band of Mission Indians	P. O. Box 365 Valley Center, CA, 92082	johnf@sanpasqualtribe.org	Phone: (760) 749 - 3200	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Scott Cozart, Chairperson	Soboba Band of Luiseno Indians	P. O. Box 487 San Jacinto, CA, 92583	N/A	(951) 654 - 2765	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Carrie Garcia, Cultural Resources Manager	Soboba Band of Luiseno Indians	P. O. Box 487 San Jacinto, CA, 92583	carrieg@sobobansn.gov	(951) 654 - 2765	Letter sent March 16, 2018	3/30/2018	Left Voice Message
Cody J. Martinez, Chairperson	Sycuan Band of the Kumeyaay Nation	1 Kwaaypaa y Court El Cajon, CA, 92019	ssilva@sycuannsn.gov	(619) 445 - 2613	Letter sent March 16, 2018	3/30/2018	Office closed; Unable to leave message
Lisa Haws, Cultural Resources Manager	Sycuan Band of the Kumeyaay Nation	1 Kwaaypaa y Court El Cajon, CA, 92019	lhaws@sycuannsn.gov	(619) 312 - 1935	Letter sent March 16, 2018	3/30/2018	Left Voice Message



Native American Contact	Tribal Affiliation	Mailing Address	Email Address	Phone Number	Contact Attempt	Follow Up	Results
Robert Welch, Chairperson	Viejas Band of Kumeyaay Indians	1 Viejas Grade Road Alpine, CA, 91901	jhagen@viejas-nsn.gov	(619) 445 - 3810	Letter sent March 16, 2018	Received letter response on March 21, 2018 Rincon sent an email on 4/10/2018 stating their request has been received and it will be documented in the report for this study.	Received letter dated March 21, 2018 from Ray Teran, Resource Management, stating the Viejas Band of Kumeyaay Indians determined that the project site has little cultural significance or ties to the Viejas; requested to be informed of any new developments such as inadvertent discovery of cultural artifacts, cremation sites, or human remains.
Julie Hagen	Viejas Band of Kumeyaay Indians	1 Viejas Grade Road Alpine, CA, 91901	jhagen@viejas-nsn.gov	(619) 445 - 3810	Letter sent March 16, 2018	Received letter response on March 21, 2018 Rincon sent an email on 4/10/2018 stating their request has been received and it will be documented in the report for this study.	Received letter on March 21, 2018 from Ray Teran, Resource Management, stating the Viejas Band of Kumeyaay Indians determined that the project site has little cultural significance or ties to the Viejas; requested to be informed of any new developments such as inadvertent discovery of cultural artifacts, cremation sites, or human remains.



Rincon Consultants, Inc.

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Redlands, California 92374

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December 22, 2017

Agua Caliente Band of Cahuilla Indians
Attn: Jeff Grubbe, Chairperson
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Grubbe:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Agua Caliente Band of Cahuilla Indians
Attn: Patricia Garcia-Plotkin, Director, THPO
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Garcia-Plotkin:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Augustine Band of Cahuilla Indians
Attn: Amanda Vance, Chairperson
P.O. Box 846
Coachella, CA 92236

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Vance:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Cabazon Band of Mission Indians
Attn: Doug Welmas, Chairperson
84-245 Indio Springs Parkway
Indio, CA 92203

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Welmas:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

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December 22, 2017

Cahuilla Band of Mission Indians
Attn: Daniel Salgado, Chairperson
52701 U.S. Highway 371
Anza, CA 92593

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Salgado:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Chemehuevi Indian Tribe
Attn: Charles F. Wood, Chairperson
P.O. Box 1976
Havasu Lake, CA 92363

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Wood:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Cocopah Indian Reservation
Attn: H. Jill McCormick, Tribal Archaeologist
County 15th & Avenue G
Sommerton, AZ 85350

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. McCormick:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

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December 22, 2017

Colorado River Indian Tribes of the Colorado River Indian Reservation
Attn: Dennis Patch, Chairman
26600 Mojave Road
Parker, AZ 85344

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Patch:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

909 253 0705 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

December 22, 2017

Fort Mojave Indian Tribe
Attn: Timothy Williams, Chairperson
500 Merriman Ave
Needles, CA 92363

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Williams:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Gabrieleno Band of Mission Indians – Kizh Nation
Attn: Andrew Salas, Chairperson
P.O. Box 393
Covina, CA 91723

RE: Cultural Resources Study for the Coachella Valley Water District’s 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Salas:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD’s Non-Potable Water (NPW) Connections Project (“proposed project”) located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD’s jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Attn: Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA 91778

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Morales:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Gabrieleno/Tongva Nation
Attn: Sandonne Goad, Chairperson
106 ½ Judge John Aiso St., #231
Los Angeles, CA 90012

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Goad:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Juañeno Band of Mission Indians
Attn: Sonia Johnston, Tribal Chairperson
P.O. Box 25628
Santa Ana, CA 92799

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Johnston:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Juañeno Band of Mission Indians Acjachemen Nation
Attn: Matias Belardes, Chairperson
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Belardes:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Juañeno Band of Mission Indians Acjachemen Nation
Attn: Teresa Romero, Chairwoman
31411 A La Matanza Street
San Juan Capistrano, CA 92675

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairwoman Romero:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Juañeno Band of Mission Indians Acjachemen Nation
Attn: Joyce Perry, Tribal Manager
4955 Paseo Segovia
Irvine, CA 92612

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Manager Perry:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

La Jolla Band of Luiseno Indians
Attn: Thomas Rodriguez, Chairperson
22000 Highway 76
Pauma Valley, CA 92061

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Rodriguez:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Los Coyotes Band of Cahuilla and Cupeno Indians
Attn: Shane Chapparosa, Chairman
P.O. Box 189
Warner Springs, CA 92086-01

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Chapparosa:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

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December 22, 2017

Morongo Band of Mission Indians
Attn: Robert Martin, Chairperson
12700 Pumarra Road
Banning, CA 92220

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Martin:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Pala Band of Mission Indians
Attn: Shasta Gaughen, PhD, THPO
PMB 50 35008 Pala Temecula Rd.
Pala, CA 92059

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Shasta Gaughen:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Pala Band of Mission Indians
Attn: Robert H. Smith, Chairperson
Pala, CA 92059

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Smith:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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December 22, 2017

Pauma Band of Luiseno Indians
Attn: Temet Aguilar, Chairperson
P.O. Box 369
Pauma Valley, CA 92061

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Aguilar:

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

909 253 0705 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

December 22, 2017

Pechanga Band of Luiseño Indians
Attn: Mark Macarro, Chairman
P.O. Box 1477
Temecula, CA 92593

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Macarro:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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December 22, 2017

Quechan Tribe of the Fort Yuma Indian Reservation
Attn: Michael Jackson Sr. President
P.O. Box 1899
Yuma, AZ 85366

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Jackson:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Ramona Band of Cahuilla
Attn: Joseph Hamilton, Chairman
P.O. Box 391670
Anza, CA 92539

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Hamilton:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

Rincon Band of Luiseño Indians
Attn: Bo Mazzetti, Chairperson
1 West Tribal Road
Valley Center, CA 92082

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Mazzetti:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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December 22, 2017

San Fernando Band of Mission Indians
John Valenzuela, Chairperson
P.O. Box 221838
Newhall, CA 91322

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Valenzuela:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

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December 22, 2017

San Luis Rey Band of Mission Indians
Attn: Tribal Council
1889 Sunset Drive
Vista, CA 92081

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Council:

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Coachella Valley Water District
Non-Potable Water Connections Project

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December 22, 2017

San Manuel Band of Mission Indians
Attn: Lee Clauss, Director-CRM Dept.
26569 Community Center Drive
Highland, CA 92346

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Director Clauss:

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Coachella Valley Water District
Non-Potable Water Connections Project

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Associate Archaeologist

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December 22, 2017

San Manuel Band of Mission Indians
Attn: Lynn Valbuena
26569 Community Center Dr.
Highland, CA 92346

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Valbuena:

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Coachella Valley Water District
Non-Potable Water Connections Project

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December 22, 2017

Santa Rosa Band of Cahuilla Indians
Attn: Steven Estrada, Chairman
P.O. Box 391820
Anza, CA 92539

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Estrada:

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Coachella Valley Water District
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December 22, 2017

Serrano Nation of Mission Indians
Attn: Goldie Walker, Chairperson
P.O. Box 343
Patton, CA 92369

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Walker:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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December 22, 2017

Soboba Band of Luiseno Indians
Attn: Joseph Ontiveros, Cultural Resource Department
P.O. Box 487
San Jacinto, CA 92581

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Ontiveros:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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December 22, 2017

Torres-Martinez Desert Cahuilla Indians
Attn: Michael Mirelez, Cultural Resource Coordinator
P.O. Box 1160
Thermal, CA 92274

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Mirelez:

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December 22, 2017

Twenty-Nine Palms Band of Mission Indians
Attn: Darrell Mike, Chairperson
46-200 Harrison Place
Coachella, CA 92236

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Mike:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

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www.rinconconsultants.com

December 22, 2017

Twenty-Nine Palms Band of Mission Indians
Attn: Anthony Madrigal Jr. THPO
46-200 Harrison Place
Coachella, CA 92236

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Madrigal:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of three NPW connections that would be used to provide irrigation water for up to three local golf courses (Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club) with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Agua Caliente Band of Cahuilla Indians
Attn: Jeff Grubbe, Chairperson
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Grubbe:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Agua Caliente Band of Cahuilla Indians
Attn: Patricia Garcia-Plotkin, Director, THPO
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Director, THPO Garcia-Plotkin:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Augustine Band of Cahuilla Mission Indians
Attn: Amanda Vance, Chairperson
P.O. Box 846
Coachella, CA 92236

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Vance:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Cabazon Band of Mission Indian
Attn: Doug Welmas, Chairperson
84-245 Indio Springs Parkway
Indio, CA 92203

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Welmas:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Cahuilla Band of Indians
Attn: Daniel Salgado, Chairperson
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Salgado:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Chemehuevi Indian Tribe
Attn: Charles F. Wood, Chairperson
P.O. Box 1976
Havasu Lake, CA 92363

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Wood:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Cocopah Indian Reservation
Attn: H. Jill McCormick, Tribal Archaeologist
County 15th & Avenue G
Sommerton, AZ 85350

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Archaeologist McCormick:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Colorado River Indian Tribes of the Colorado River Indian Reservation
Attn: Dennis Patch, Chairman
26600 Mojave Road
Parker, AZ 85344

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Patch:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Fort Mojave Indian Tribe
Attn: Timothy Williams, Chairperson
500 Merriman Ave
Needles, CA 92363

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Williams:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Gabrieleno Band of Mission Indians – Kizh Nation
Attn: Andrew Salas, Chairperson
P.O. Box 393
Covina, CA 91723

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Salas:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Attn: Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA 91778

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Morales:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Gabrieleno/Tongva Nation
Attn: Sandonne Goad, Chairperson
106 ½ Judge John Aiso St., #231
Los Angeles, CA 90012

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Goad:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Juaneno Band of Mission Indians
Attn: Sonia Johnston, Tribal Chairperson
P.O. Box 25628
Santa Ana, CA 92799

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Johnston:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

909 253 0705 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

March 16, 2018

Juaneno Band of Mission Indians Acjachemen Nation
Attn: Matias Belardes, Chairperson
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Belardes:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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Associate Archaeologist

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March 16, 2018

Juaneno Band of Mission Indians Acjachemen Nation
Attn: Teresa Romero, Chairwoman
31411-A La Matanza Street
San Juan Capistrano, CA 92675

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairwoman Romero:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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Associate Archaeologist

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March 16, 2018

Juaneno Band of Mission Indians Acjachemen Nation
Attn: Joyce Perry, Tribal Member
4955 Paseo Segovia
Irvine, CA 92612

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Member Perry:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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March 16, 2018

La Jolla Band of Luiseno Indians
Attn: Thomas Rodriguez, Chairperson
22000 Highway 76
Pauma Valley, CA 92061

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Rodriguez:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Los Coyotes Band of Cahuilla and Cupeno Indians
Attn: Shane Chapparosa, Chairman
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Chapparosa:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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March 16, 2018

Morongo Band of Mission Indians
Attn: Robert Martin, Chairperson
12700 Pumarra Road
Banning, CA 92220

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Pumarra:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Pala Band of Mission Indians
Attn: Shasta Gaughen, PhD, THPO
PMB 50 35008 Pala Temecula Road
Pala, CA 92059

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear THPO Gaughen:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Pala Band of Mission Indians
Attn: Robert H. Smith, Chairperson
12196 Pala Mission Road
Pala, CA 92059

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Smith:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Non-Potable Water Connections Project

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March 16, 2018

Pauma Band of Luiseno Indians
Temet Aguilar, Chairperson
P.O. Box 369
Puama Valley, CA 92061

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Aguilar:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Pechanga Band of Luiseno Indians
Mark Macarro, Chairman
P.O. box 1477
Temecula, CA 92593

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Macarro:

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March 16, 2018

Quechan Tribe of the Fort Yuma Indian Reservation
Michael Jackson, Sr., President
P.O. Box 1899
Yuma, AZ 85366

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear President Jackson:

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March 16, 2018

Ramona Band of Cahuilla
Joseph Hamilton, Chairman
P.O. Box 391670
Anza, CA 92539

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Hamilton:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Rincon Band of Luiseno Indians
Bo Mazzetti, Chairperson
1 West Tribal Road
Valley Center, CA 92082

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Mazzetti:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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301 9th Street, Suite 310
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www.rinconconsultants.com

March 16, 2018

San Fernando Band of Mission Indians
John Valenzuela, Chairperson
P.O. Box 221838
Newhall, CA 91322

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Valenzuela:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.

Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

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Redlands, California 92374

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March 16, 2018

San Luis Rey Band of Mission Indians
Tribal Council
1889 Sunset Drive
Vista, CA 92081

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Council:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

San Manuel Band of Mission Indians
Lee Clauss, Director-CRM Department
26569 Community Center Drive
Highland, CA 92346

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Director Clauss:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the revised project area. On March 7, 2018, Rincon received a response from the NAHC for the updated project alignment with negative results and an updated list of contacts.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

San Manuel Band of Mission Indians
Lynn Valbuena
26569 Community Center Drive
Highland, CA 92346

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Valbuena:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Santa Rosa Band of Cahuilla Indians
Steven Estrada, Chairman
P.O. Box 391820
Anza, CA 92539

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairman Estrada:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Serrano Nation of Mission Indians
Goldie Walker, Chairperson
P.O. Box 343
Patton, CA 92369

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Walker:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
Rincon Consultants, Inc.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. Box 487
San Jacinto, CA 92581

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Ontiveros:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Torres-Martinez Desert Cahuilla Indians
Michael Mirelez, Cultural Resource Coordinator
P.O. Box 1160
Thermal, CA 92274

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Mirelez:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Twenty-Nine Palms Band of Mission Indians
Darrell Mike, Chairperson
46-200 Harrison Place
Coachella, CA 92236

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Mike:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Twenty-Nine Palms Band of Mission Indians
Anthony Madrigal, Jr. THPO
46-200 Harrison Place
Coachella, CA 92236

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Salgado:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

San Manuel Band of Mission Indians Darrell Mike, Chairperson
Jessica Mauck, Cultural Resources Analyst
26569 Community Center Drive
Highland CA 92346

RE: UPDATE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Mauck:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). Rincon has contacted you previously regarding this project; however, since that time the project has been updated to include 24,226 feet of additional pipeline alignment. The updated proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses, with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
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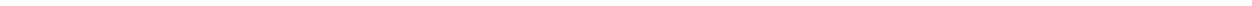
A handwritten signature in black ink, appearing to read "Luis J. Perras". The signature is fluid and cursive, written over a white background.



Coachella Valley Water District
Non-Potable Water Connections Project

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map





Rincon Consultants, Inc.

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March 16, 2018

Campo Band of Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1
Campo, CA 91906

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Goff:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.



Sincerely,
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Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Ewiiapaayp Tribal Office
Robert Pinto, Chairperson
4054 Willows Road
Alpine, CA 91901

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Pinto:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



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March 16, 2018

Ewiiapaayp Tribal Office
Michael Garcia, Vice Chairperson
4054 Willows Road
Alpine, CA 91901

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Vice Chairperson Garcia:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.



Sincerely,
Rincon Consultants, Inc.

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

909 253 0705 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

March 16, 2018

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612
Jamul, CA 91935

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Pinto:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Associate Archaeologist

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March 16, 2018

La Posta Band of Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road
Boulevard, CA 91905

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Parada:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
Associate Archaeologist

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March 16, 2018

La Posta Band of Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road
Boulevard, CA 91905

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Tribal Administrator Miller:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Associate Archaeologist

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March 16, 2018

Los Coyotes Band of Mission Indians
John Perada, Environmental Director
P.O. Box 189
Warner Springs, CA 92086

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Perada:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302
Boulevard, CA 91905

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Santos:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
Associate Archaeologist

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March 16, 2018

Morongo Band of Mission Indians
Denisa Torres, Cultural Resources Manager
12700 Pumarra Road
Banning, CA 92220

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Torres:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Lindsay Porras, M.A., RPA
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March 16, 2018

Ramona Band of Cahuilla Mission Indians
John Gomez, Environmental Coordinator
P.O. Box 391670
Anza, CA 92539

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Gomez:

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Lindsay Porras, M.A., RPA
Associate Archaeologist

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March 16, 2018

San Pasqual Band of Mission Indians
Allen E. Lawson, Chairperson
P.O. Box 365
Valley Center, CA 92082

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Lawson:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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March 16, 2018

San Pasqual Band of Mission Indians
John Flores, Environmental Coordinator
P.O. Box 365
Valley Center, CA 92082

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Mr. Flores:

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March 16, 2018

Soboba Band of Luiseno Indians
Scott Cozart, Chairperson
P.O. Box 487
San Jacinto, CA 92583

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Cozart:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Associate Archaeologist

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March 16, 2018

Soboba Band of Luiseno Indians
Carrie Garcia, Cultural Resources Manager
P.O. Box 487
San Jacinto, CA 92583

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Garcia:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
Rincon Consultants, Inc.

A handwritten signature in black ink that reads "Lindsay Porras". The signature is written in a cursive, flowing style.

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

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March 16, 2018

Sycuan Band of the Kumeyaay Nation
Cody J. Martinez, Chairperson
1 Kwaaypaay Court
El Cajon, CA 92019

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Martinez:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Associate Archaeologist

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March 16, 2018

Sycuan Band of the Kumeyaay Nation
Lisa Haws, Cultural Resources Manager
1 Kwaaypaay Court
El Cajon, CA 92019

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Haws:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.



Sincerely,
Rincon Consultants, Inc.

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map



Rincon Consultants, Inc.

301 9th Street, Suite 310
Redlands, California 92374

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March 16, 2018

Viejas Band of Kumeyaay Indians
Robert Welch, Chairperson
1 Viejas Grade Road
Alpine, CA 91901

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Chairperson Welch:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA).

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project area. On December 18, 2017 Rincon received a response from the NAHC stating that the SLF search results were negative for site specific information and included a list of Native American tribes who may have knowledge of cultural resources in the project area. Since the first SLF search, the project site was altered to include an additional 24,226 feet of alignment. The NAHC provided updated SLF results including the new alignment on March 7, 2018 stating that the search was negative.

If you have knowledge of cultural resources that may exist within or near the project site, please contact me in writing at lperras@rinconconsultants.com, or by telephone at (909) 435-0978, extension 9981.



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Lindsay Porras, M.A., RPA
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March 16, 2018

Viejas Band of Kumeyaay Indians
Julie Hagen
1 Viejas Grade Road
Alpine, CA 91901

RE: Cultural Resources Study for the Coachella Valley Water District's 2017/2018 Non-Potable Water Connections Project

Dear Ms. Hagen:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a cultural resources study for the CVWD's Non-Potable Water (NPW) Connections Project ("proposed project") located in the City of Palm Desert, in Riverside County, California (Figure 1). The proposed project involves the construction and operation of NPW connections that would be used to provide irrigation water for local golf courses with the goal of expanding the use of recycled water within CVWD's jurisdiction. Construction of the NPW connections will involve removal of existing ground cover, trenching along the pipeline alignment, trench backfilling and compaction, and installation of meters and actuated valves.

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Sincerely,
Rincon Consultants, Inc.

Lindsay Porras, M.A., RPA
Associate Archaeologist

Enclosure: Project Location Map

Coachella Valley Water District (CVWD) 2017/2018 Non-Potable Water (NPW) Connections
Project, Historic Group Consultation

Table 1

Historic Groups Consultation Table

Local Group/Government Contact	Rincon Coordination Efforts	Response to Coordination Efforts
<p>Coachella Valley Historical Society, Coachella Valley History Museum 82616 Miles Avenue Indio, CA 92201 760-342-6651</p>	<p>12/1/2017: Letter sent via U.S. Mail. 12/18/2017: Follow-up call – was informed that the director recently vacated the position and the whereabouts of our outreach letter are unknown. I described the project and offered to re-send the letter/map via email, but was told that the Historical Society of Palm Desert would be the more appropriate organization to comment for the project area.</p>	<p>12/18/2017: The Coachella Valley History Museum had no comment on the proposed project and recommended asking for input from the Historical Society of Palm Desert as the project area is closer to that organization.</p>
<p>Historical Society of Palm Desert 72-861 El Paseo Drive Palm Desert, CA 92260 760-346-6588 Mimi.colton@roadrunner.com Hspd.firehouse@gmail.com</p>	<p>12/1/2017: Letter sent via U.S. Mail. 12/18/2017: Follow-up call – left a message for the office manager, Merrilee Colton. 12/27/2017: Follow-up call – left a message at 760-346-6588. 3/19/2018: Called and left message to notify organization of expanded project alignment; requested they call back if they had any questions/ concerns re: potential impacts to historical resources in area, or if they would like an updated map. Per recommendation from the Palms Springs Historical Society, I also emailed a copy of the letter and updated map to Merrilee Colton.</p>	<p>1/2/2018: No response received. No further action required. 3/20/2018: Merrilee Colton replied via telephone – she would like to see the updated map of the project area. Emailed the information to hspd.firehouse@gmail.com 4/4/2018: Received letter response from Harry M. Quinn of the Historical Society of Palm Desert stating that the only area within the project that might have supported occupation sites is in the south-half of the north-half of section 15; however, the area has been heavily impacted by earlier development so it has a low potential for any in-place cultural or paleontological materials.</p>

Local Group/Government Contact	Rincon Coordination Efforts	Response to Coordination Efforts
<p>Palm Springs Historical Society 221 South Palm Canyon Drive Palm Springs, CA 92262 pshistoricalsociety@gmail.com 760-656-7469 760-323-8297</p>	<p>12/1/2017: Letter sent via U.S. Mail 12/18/2017: Follow-up call – spoke with director Jeri Vogelsang, who stated that she received the letter and does not have any knowledge of, or concerns about cultural resources in the project area. 3/19/2018: Called and spoke with Jeri Vogelsang re: expanded project. She does not have specific knowledge of cultural resources in the project area. She recommended contacting the Historical Society of Palm Desert via email and gave me their manager’s (Merrilee Colton) email address.</p>	<p>12/18/2017: Director Jeri Vogelsang stated she does not have any knowledge of, or concerns about cultural resources in the project area.</p>



Rincon Consultants, Inc.

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November 28, 2017
Project No: 17-04981

Palm Springs Historical Society
221 South Palm Canyon Drive
Palm Springs, CA 92262

Subject: Coachella Valley Water District (CVWD) 2017/2018 Non-Potable Water (NPW)
Connections Project, Riverside County, California

To Whom it May Concern:

Rincon Consultants, Inc. (Rincon) has been retained on behalf of the Coachella Valley Water District (CVWD) to perform a cultural resources analysis for the Coachella Valley Water District 2017/2018 Non-Potable Water (NPW) Connections Project (project), which involves the construction and operation of three Non-Potable Water (NPW) connections that would be used to provide irrigation water for three local golf courses, towards the goal of expanding the use of recycled water within CVWD's jurisdiction. The three golf courses included in this project are the Oasis Country Club, Palm Desert Resort Country Club, and Woodhaven Country Club. Construction of the NPW connections will involve removal of existing ground cover such as landscaping, asphalt, or concrete), trenching along the pipeline alignment, placement of pipe bedding and pipeline, backfilling of trenches and soil compaction, and installation of meters and motor actuated valves.

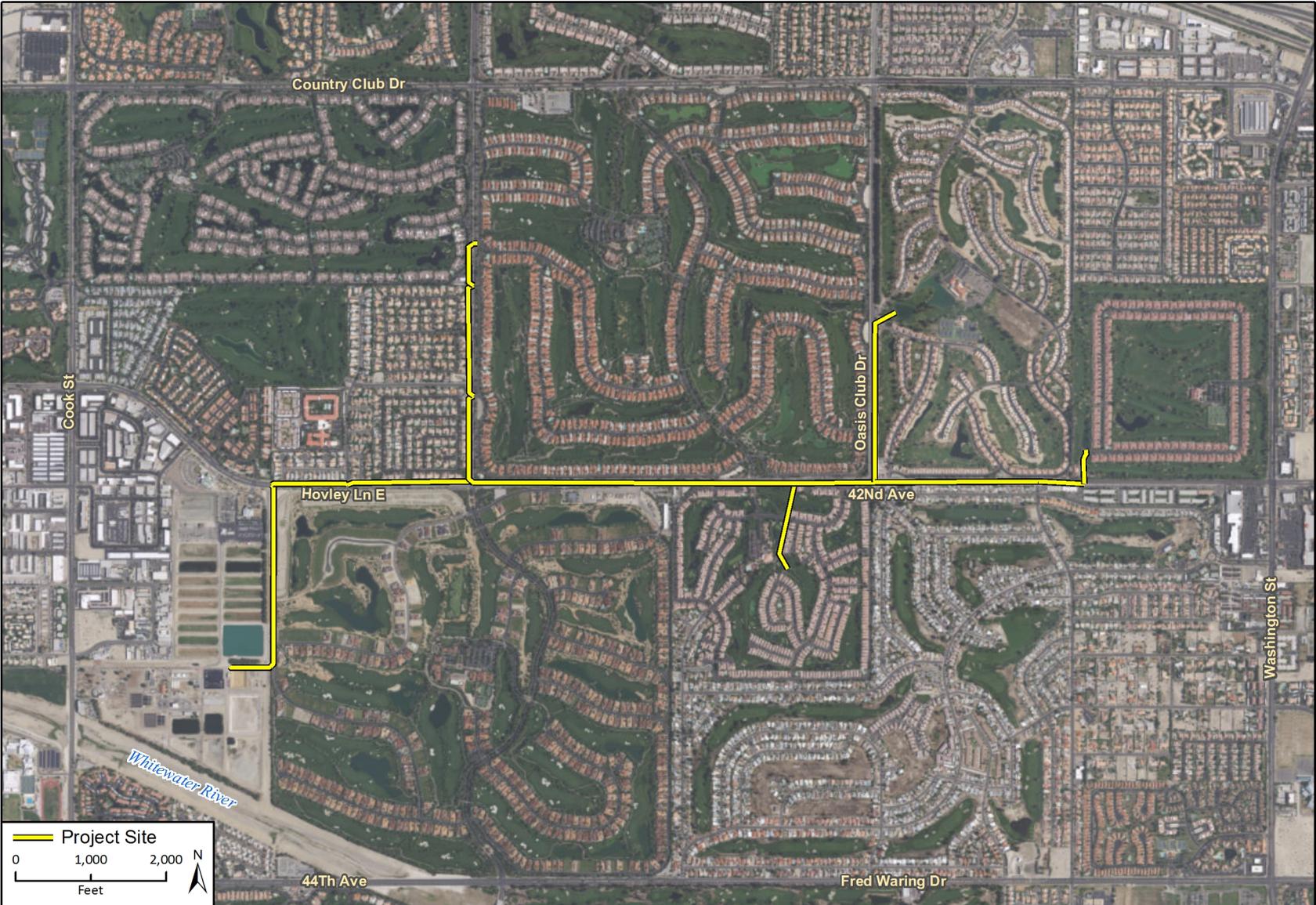
The project is subject to the California Environmental Quality Act (CEQA) with potential for funding to be received through the Integrated Regional Water Management grant program and/or State Revolving Fund Loan Program and therefore is also subject to Section 106 of the National Historic Preservation Act (NHPA). Rincon is currently working to identify any cultural resources with potential to be affected by the proposed project. We are writing to provide you with an opportunity to be involved in the Section 106 process as a consulting party. If you have any knowledge or specific concerns regarding cultural resources in the vicinity of the project area, please respond by telephone at 805-644-4455 ext. 76 or by email to szgurrola@rinconconsultants.com. Thank you for your assistance.

Sincerely,
Rincon Consultants, Inc.

A handwritten signature in blue ink, appearing to read "Susan Zamudio-Gurrola". The signature is fluid and cursive.

Susan Zamudio-Gurrola
Architectural Historian

Enclosure: Project Location Map



Country Club Dr

Cook St

Oasis Club Dr

Hovley Ln E

42nd Ave

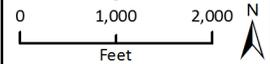
Washington St

Whitewater River

44th Ave

Fred Waring Dr

Project Site





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Los Angeles, California 90012

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FAX 908 2200

info@rinconconsultants.com
www.rinconconsultants.com

November 28, 2017
Project No: 17-04981

Historical Society of Palm Desert
72-861 El Paseo Drive
Palm Desert, CA 92260

Subject: Coachella Valley Water District (CVWD) 2017/2018 Non-Potable Water (NPW)
Connections Project, Riverside County, California

To Whom it May Concern:

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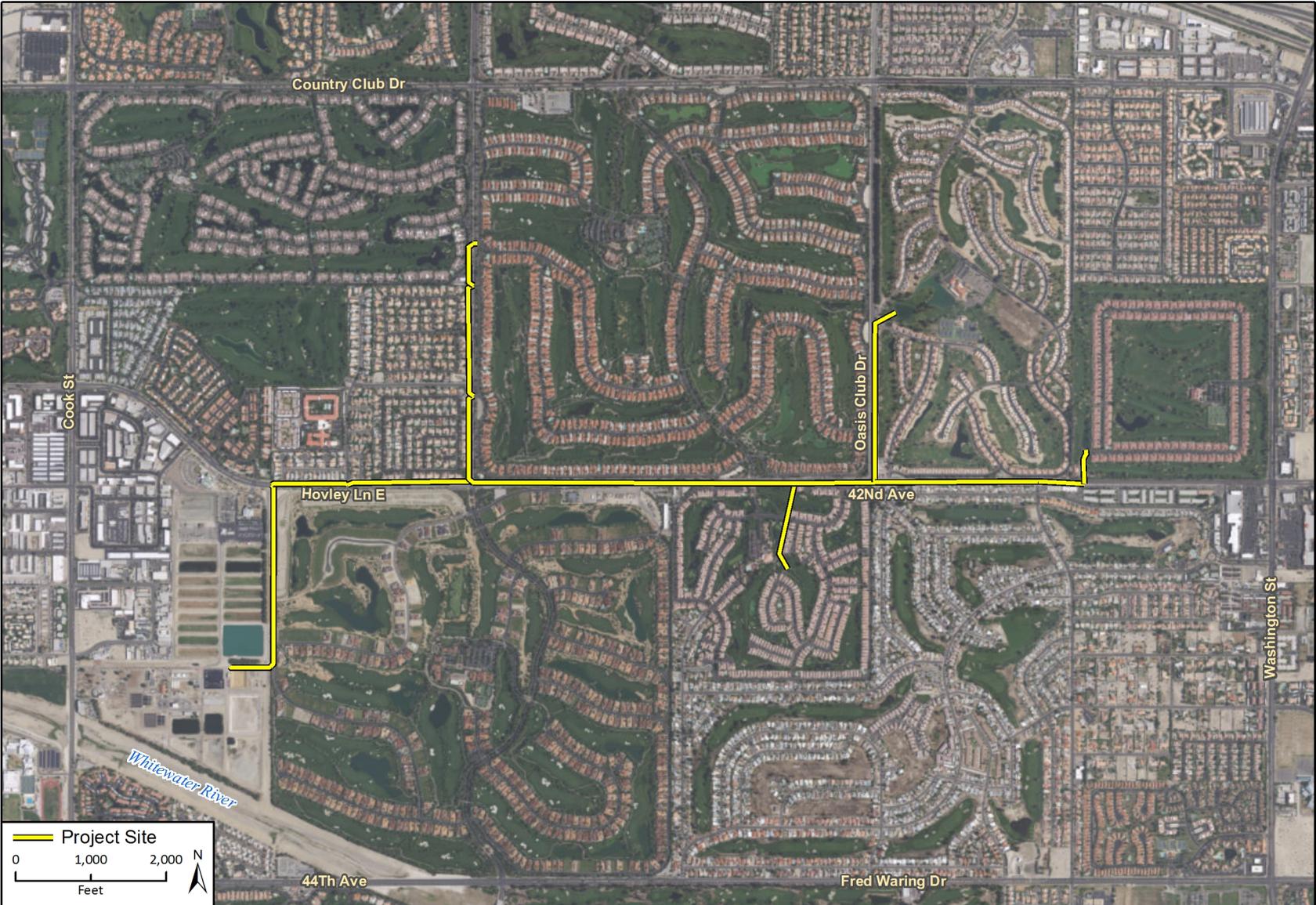
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November 28, 2017
Project No: 17-04981

Coachella Valley Historical Society,
Coachella Valley History Museum
82616 Miles Avenue
Indio, CA 92201

Subject: Coachella Valley Water District (CVWD) 2017/2018 Non-Potable Water (NPW)
Connections Project, Riverside County, California

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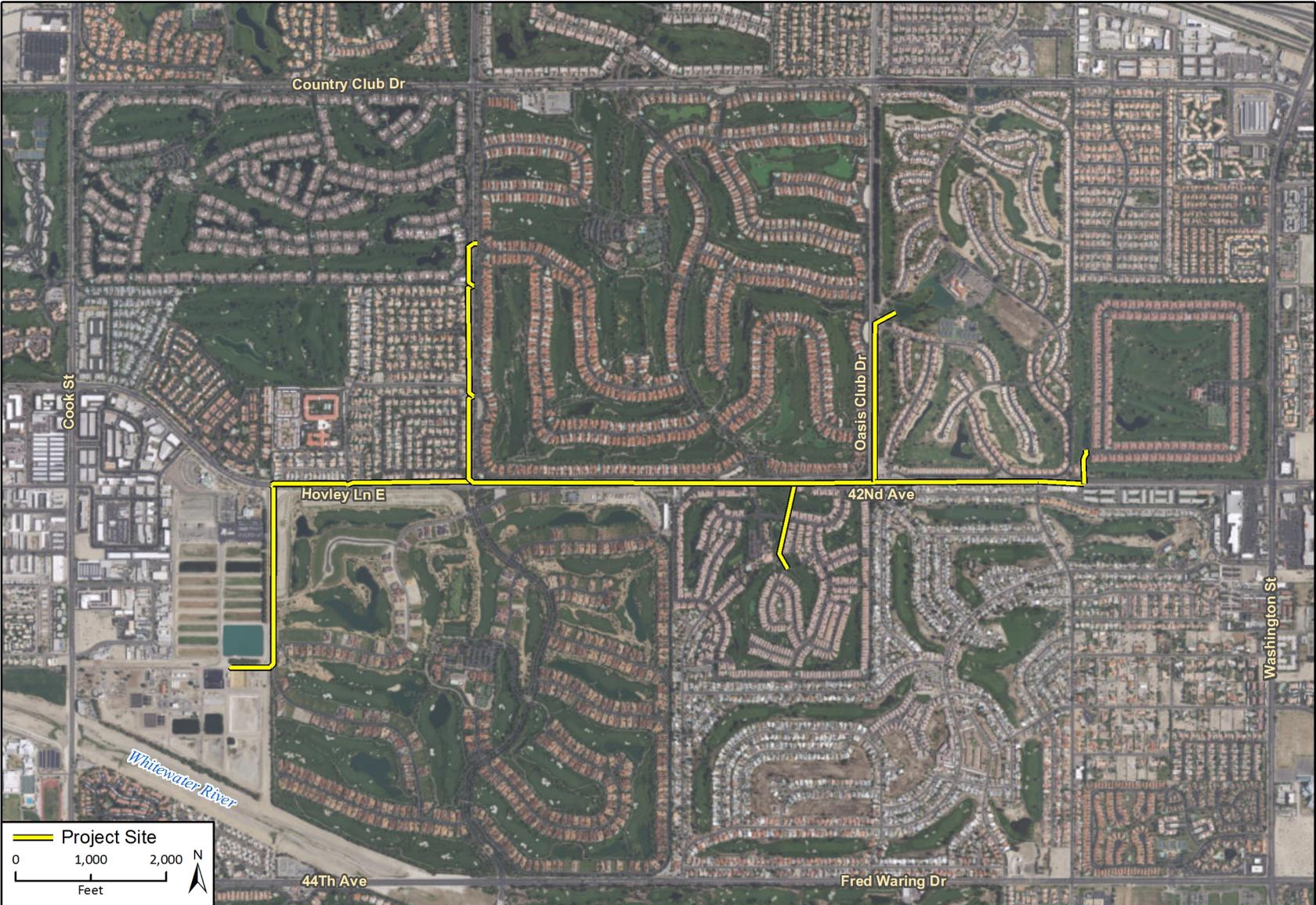
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Architectural Historian

Enclosure: Project Location Map



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Cook St

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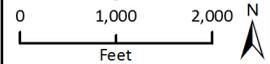
Washington St

Whitewater River

44th Ave

Fred Waring Dr

Project Site



From: [Susan Zamudio-Gurrola](#)
To: ["Mimi.colton@roadrunner.com"](mailto:Mimi.colton@roadrunner.com)
Subject: CVWD Non-Potable Water Connections Project
Date: Monday, March 19, 2018 12:23:00 PM
Attachments: [image001.png](#)
[Hist. consult letter Hist Society of PD.pdf](#)
[CRRecords Search Map 11x17 NoBuffers.pdf](#)
[image002.png](#)

Good afternoon,

I am writing regarding a proposed construction project, the Coachella Valley Water District 2017/2018 Non-Potable Water Connections Project, and to inquire if your organization has any information or concerns regarding historical resources in the project area. I had originally mailed out a letter and map describing the project to your organization in early December 2017. However, the project alignment has expanded and so I am contacting you again to see if you have any information or concerns for historical resources within the updated project area (an updated map is attached). Please feel free to contact me if you have any questions or concerns.

Thanks for your time,

Susan Zamudio-Gurrola
Architectural Historian

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310-592-0815 mobile
www.rinconconsultants.com
Environmental Scientists Planners Engineers
Ranked 2017 "Best Firm To Work For" – Zweig Group

From: [Susan Zamudio-Gurrola](mailto:Susan_Zamudio-Gurrola)
To: ["hspd.firehouse@gmail.com"](mailto:hspd.firehouse@gmail.com)
Subject: FW: CVWD Non-Potable Water Connections Project
Date: Tuesday, March 20, 2018 1:47:00 PM
Attachments: [image001.png](#)
[Hist. consult letter Hist Society of PD.pdf](#)
[CRRRecords Search Map 11x17 NoBuffers.pdf](#)
[image003.png](#)
[image004.png](#)

Good afternoon, Merrilee,

I received your voicemail. Thank you for getting back to me.

Yesterday Jeri at the Palm Springs Historical Society gave me the email address below, so I'm forwarding the updated project map to the address you have provided. Please let us know if you have any questions or concerns at your earliest convenience.

Susan Zamudio-Gurrola
Architectural Historian

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Environmental Scientists Planners Engineers
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From: Susan Zamudio-Gurrola
Sent: Monday, March 19, 2018 12:24 PM
To: 'Mimi.colton@roadrunner.com'
Subject: CVWD Non-Potable Water Connections Project

Good afternoon,

I am writing regarding a proposed construction project, the Coachella Valley Water District 2017/2018 Non-Potable Water Connections Project, and to inquire if your organization has any information or concerns regarding historical resources in the project area. I had originally mailed out a letter and map describing the project to your organization in early December 2017. However, the project alignment has expanded and so I am contacting you again to see if you have any information or concerns for historical resources within the updated project area (an updated map is attached). Please feel free to contact me if you have any questions or concerns.

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Appendix E

Paleontological Resources Letter Report



Rincon Consultants, Inc.

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April 9, 2018
Project No: 17-04981

Elizabeth Meyerhoff
Environmental Specialist
Coachella Valley Water District
75-515 Hovley Lane East
Palm Desert, California 92211

Subject: Paleontological Resource Assessment for the 2017/2018 Non-Potable Water (NPW) Connections Project, Riverside County, California

Dear Ms. Meyerhoff:

Rincon Consultants, Inc. (Rincon) was retained by Coachella Valley Water District (CVWD) to conduct a paleontological resource assessment for the 2017/2018 Non-Potable Water (NPW) Connections Project (project) in Riverside County, California. The goal of the assessment is to identify the geologic units that may be impacted by development of the proposed project, determine the paleontological sensitivity of geologic units within the project area, assess potential for impacts to paleontological resources from development of the proposed project, and recommend mitigation measures to avoid or mitigate impacts to scientifically significant paleontological resources, as necessary.

This paleontological resource assessment consisted of a fossil locality record search at the Natural History Museum of Los Angeles County (LACM) and review of existing geologic maps and primary literature regarding fossiliferous geologic units within the project area and vicinity. Following the literature review and records search, this report assessed the paleontological sensitivity of the geologic units underlying the project area, determined the potential for impacts to significant paleontological resources, and proposed mitigation measures to reduce impacts to less than significant. Figures are included in Attachment A.

This paleontological resource assessment has been prepared to support environmental review under the California Environmental Quality Act (CEQA). CVWD is the CEQA Lead Agency for the project.

Project Location and Description

The project is located in the Coachella Valley, approximately 1 mile south of Interstate 10 and 2 miles north of State Route 111 within Palm Desert, Riverside County, California. Specifically, the project is located within Township 4 South, Range 6 East, Sections 32-33; Township 5 South, Range 6 East, Sections 4-5 and 9-15; and Township 5 South, Range 6 East, Sections 7 and 17-18. on the United States Geological Survey (USGS) Cathedral City, Myoma and La Quinta, CA 7.5-minute quadrangles (Figure 1).

The proposed project involves the construction and operation of approximately 9.4 miles of NPW pipeline segments and connections to provide irrigation water for seven local golf courses, one RV resort, one planned future development, and replacement of an existing pump station for a total



pumping capacity of approximately 12,000 gpm for the low pressure system and 12,000 gpm for the high pressure system. The proposed NPW end users currently use groundwater or CVWD-supplied potable water for irrigation. The proposed project would deliver a blend of tertiary treated water from CVWD's existing Water Reclamation Plant No. 10 (WRP10) facility and Colorado River water from the Mid-Valley Pipeline terminus at WRP10. CVWD's WRP10 facility is located at 43000 Cook Street within the City of Palm Desert.

The proposed project would install approximately 50,000 linear feet (LF) of non-potable pipeline within public right of way and private lands within the City of Palm Desert and unincorporated Bermuda Dunes. The majority of the pipeline alignment (approximately 40,000 LF) would be placed in the City of Palm Desert, with approximately 10,000 LF of pipeline extending east into unincorporated Bermuda Dunes. In locations where new NPW distribution pipes would be installed parallel to existing NPW pipelines, those new pipelines would serve to increase capacity of the NPW distribution system. The new pipelines would increase the NPW distribution network from approximately 26.6 miles to 36 miles.

Regulatory Setting

Fossils are remains of ancient, commonly extinct organisms, and as such are nonrenewable resources. The fossil record is a document of the evolutionary history of life on earth, and fossils can be used to understand evolutionary pattern and process, rates of evolutionary change, past environmental conditions, and the relationships among modern species (i.e., systematics). The fossil record is considered a valuable scientific and educational resource, and individual fossils are afforded protection under state and federal environmental laws.

This study has been completed in accordance with the requirements of a CEQA-Plus investigation, includes compliance with both state and federal regulations in the case that a federal nexus is established during the course of project execution. A federal nexus may be established with the requirement of federal funding and/or permitting. Compliance with both regulations allows the lead agency to apply the results of this technical study to both levels of regulation should a nexus be established at a later time. State and local regulations applicable to potential paleontological resources in the project area are summarized below.

Federal Regulations

A variety of federal statutes specifically address paleontological resources. They are applicable to all projects occurring on federal lands, and may be applicable to specific projects if the project involves a federal agency license, permit, approval, or funding.

The National Environmental Policy Act (USC, section 4321 et seq.; 40 CFR, section 1502.25), as amended, directs federal agencies to "preserve important historic, cultural, and natural aspects of our national heritage (Section 101(b) (4))." The current interpretation of this language has included scientifically important paleontological resources among those resources that may require preservation.

The Paleontological Resources Preservation Act (PRPA) is part of the Omnibus Public Land Management Act of 2009 (Public Law 111-011 Subtitle D). The PRPA directs the Secretary of the Interior or the Secretary of Agriculture to manage and protect paleontological resources on federal land, and develop plans for inventorying, monitoring, and deriving the scientific and educational use of such resources. The PRPA prohibits the removal of paleontological resources from federal land without a permit, establishes penalties for violations, and establishes a program to increase public awareness about such resources.



While specific to activity that occurs on federal lands, some federal agencies may require adherence to the directives outlined in the PRPA for projects on non-federal lands if federal funding is involved, or the project includes federal oversight.

State

California Environmental Quality Act

Paleontological resources are protected under CEQA, which states, in part, that a project will “normally” have a significant effect on the environment if it, among other things, will disrupt or adversely affect... a paleontological site except as part of a scientific study. Specifically, in Section V(c) of Appendix G of the CEQA Guidelines, the “Environmental Checklist Form,” the question is posed: “Will the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature”. In order to determine the uniqueness of a given paleontological resource, it must first be identified or recovered (i.e., salvaged). Therefore, mitigation of adverse impacts to paleontological resources is mandated by CEQA.

CEQA does not define “a unique paleontological resource or site.” However, the Society of Vertebrate Paleontology (SVP) has defined a “significant paleontological resource” in the context of environmental review. The SVP defines a Significant Paleontological Resources as:

...fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).

The loss of paleontological resources that meet the criteria outlined above (i.e., considered a significant paleontological resource) would be considered a significant impact under CEQA, and the CEQA lead agency is responsible for ensuring that paleontological resources are protected in compliance with CEQA and other applicable statutes.

Public Resources Code Section 5097.5

Section 5097.5 of the Public Resources Code (PRC) states:

No person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.

As used in this PRC section, “public lands” means lands owned by, or under the jurisdiction of, the state or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, public agencies are required to comply with PRC 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others.



Methods

Rincon evaluated the paleontological sensitivity of the geologic units that underlie the project area using the results of the paleontological locality search and review of existing information in the primary literature concerning known fossils within those geologic units. Rincon submitted a request to the LACM for a list of known fossil localities from the project area and immediate vicinity (i.e., localities recorded on the USGS Myoma and La Quinta, 7.5-minute topographic quadrangles), and reviewed geologic maps and primary literature including: Alles 2011; Arnal 1961; California Geologic Survey (CGS) 2002; Deméré 2002; Dibblee and Minch 2004, 2008; Ingwall 2008; Norris 1979; Waters 1983; and Whistler et al. 1995.

Rincon assigned a paleontological sensitivity to the geologic units within the project area. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically sensitive geologic units. The SVP (2010) has defined paleontological sensitivity and developed a system for assessing paleontological sensitivity, as discussed below.

Paleontological Resource Potential

Significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, diagnostically important, or are common but have the potential to provide valuable scientific information for evaluating evolutionary patterns and processes, or which could improve our understanding of paleochronology, paleoecology, paleophylogeography, or depositional histories. New or unique specimens can provide new insights into evolutionary history; however, additional specimens of even well represented lineages can be equally important for studying evolutionary pattern and process, evolutionary rates, and paleophylogeography. Even unidentifiable material can provide useful data for dating geologic units if radiocarbon dating is possible. As such, common fossils (especially vertebrates) may be scientifically important, and therefore considered highly significant.

The SVP (2010) describes sedimentary rock units as having high, low, undetermined, or no potential for containing significant nonrenewable paleontological resources. This criterion is based on rock units within which vertebrate or significant invertebrate fossils have been determined by previous studies to be present or likely to be present. While these standards were specifically written to protect vertebrate paleontological resources, all fields of paleontology have adopted these guidelines, which are given here verbatim:

- I. **High Potential (sensitivity).** Rock units from which significant vertebrate or significant invertebrate fossils or significant suites of plant fossils have been recovered are considered to have a high potential for containing significant non-renewable fossiliferous resources. These units include but are not limited to, sedimentary formations and some volcanic formations which contain significant nonrenewable paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils. Sensitivity comprises both (a) the potential for yielding abundant or significant vertebrate fossils or for yielding a few significant fossils, large or small, vertebrate, invertebrate, or botanical and (b) the importance of recovered evidence for new and significant taxonomic, phylogenetic, ecologic, or stratigraphic data. Areas which contain potentially datable organic remains older than Recent, including deposits associated with nests or middens, and areas which may contain new vertebrate deposits, traces, or trackways are also classified as significant.



- II. Low Potential (sensitivity).** Sedimentary rock units that are potentially fossiliferous, but have not yielded fossils in the past or contain common and/or widespread invertebrate fossils of well documented and understood taphonomic, phylogenetic species and habitat ecology. Reports in the paleontological literature or field surveys by a qualified vertebrate paleontologist may allow determination that some areas or units have low potentials for yielding significant fossils prior to the start of construction. Generally, these units will be poorly represented by specimens in institutional collections and will not require protection or salvage operations. However, as excavation for construction gets underway it is possible that significant and unanticipated paleontological resources might be encountered and require a change of classification from Low to High Potential and, thus, require monitoring and mitigation if the resources are found to be significant.
- III. Undetermined Potential (sensitivity).** Specific areas underlain by sedimentary rock units for which little information is available are considered to have undetermined fossiliferous potentials. Field surveys by a qualified vertebrate paleontologist to specifically determine the potentials of the rock units are required before programs of impact mitigation for such areas may be developed.
- IV. No Potential.** Rock units of metamorphic or igneous origin are commonly classified as having no potential for containing significant paleontological resources.

Existing Conditions

Regional Geologic Setting

The project area is located in the Coachella Valley within the Colorado Desert geomorphic province of California (CGS 2002). The Colorado Desert extends from the Mojave Desert to the north, the Colorado River on the east, the Peninsular Ranges on the west, and south into Mexico. Dominant features within the Colorado Desert include the Salton Sea; the Colorado River; and the Orocopia, Chocolate, Palo Verde, and Chuckwalla mountains (Norris and Webb 1990). The Coachella Valley is located north of the Imperial Valley within the Salton Trough, a large structural depression that extends from the San Geronio Pass in the north to the Gulf of Mexico in the south. The Salton Trough is a graben structure, bounded by roughly parallel north-west-trending faults, including the San Andreas fault zone to the north and the San Jacinto and Elsinore faults to the southeast (Alles 2011).

During the Pliocene, the Salton Trough formed due to spreading and subsidence associated with the rift system that opened the Gulf of California, which still continues to undergo approximately 48 millimeters per year of spreading. The Salton Trough, including the Coachella and Imperial valleys, would currently be under water as part of the Gulf of California if not for millions of years of sedimentation from the Colorado River (Alles 2011). During the Pliocene to early Pleistocene, sedimentation along the Colorado River resulted in the build-up of a substantial delta, which eventually separated the marine waters of the Gulf of California from the brackish and fresh waters of the Salton Trough (Ingwall 2008). Since the late Pleistocene, the Salton Trough was periodically occupied by the freshwater Lake Cahuilla. The lake formed, drained, and reformed between approximately 37,000 to 300 years before present as a result of fluctuations in the course of the Colorado River and the subsequent diversion of the river's mouth from the Gulf of California to the Salton Trough (Deméré 2002; Norris 1979).

The project area includes one (1) geologic unit mapped at the ground surface (Figure 2): Holocene dune sand (Qs) (Dibblee and Minch 2008). The Holocene dune sand is composed of well-sorted, fine-to medium-grained windblown (eolian) sand and silt. Prior to development in the area, the eolian sand accumulated in significant deposits and formed widespread dunes. The Holocene dune sand overlies



Quaternary surficial alluvial deposits composed of gravel, silt, sand, and clay, which are mapped at the surface to the south and east of the project area. According to Dibblee and Minch (2004), the project area is located just within the boundary of the northernmost shoreline of ancient Lake Cahuilla; as a result, based on previous stratigraphic, archaeological, paleontological, hydrogeological, and tectonic studies, older Quaternary lacustrine Cahuilla deposits are likely present at moderate depth (approximately 10 feet) within the project area below Holocene surficial deposits (Alles 2011; Deméré 2002; Norris 1979; Waters 1983; Whistler et al. 1995). The Pleistocene Lake Cahuilla deposits are composed of weakly consolidated and interbedded sand, silt and clay, with tufa and travertine rock coatings; coarse alluvial deposits; and beach sands. The Quaternary Lake Cahuilla deposits range from several feet deep at the margin of the Coachella Valley to as much as 300 feet thick in the center of the Salton Trough (Arnal 1961; Norris 1979; Norris and Webb 1990; Waters 1983).

Holocene sedimentary deposits, particularly those younger than 5,000 years old, are generally too young to contain fossilized material. However, Quaternary lacustrine deposits derived from ancient Lake Cahuilla have proven to yield scientifically significant mollusk shells within the Salton Trough (Whistler et al. 1995). Fossil specimens of diatoms, spores, pollen, land plants, sponges, ostracods, freshwater gastropods, fresher bivalves, fish, and small terrestrial vertebrate have been recovered from the older Quaternary Lake Cahuilla beds.

Museum Fossil Locality Records

A search of the paleontological locality records at the LACM resulted in no previously recorded fossil localities within the project boundaries. According to the LACM collection records, the closest vertebrate localities recorded within older Quaternary sedimentary deposits (which may underlie the project area at moderate depth below the younger Holocene surficial deposits) were identified about five miles southeast of the project area near the Seven Palms Valley (McLeod 2017). Locality LACM 1269 yielded fossil specimens of horse (*Equus*) from an unspecified depth bgs. The museum search did not yield locality records for the younger surficial sand dune deposits that immediately underlie the project area.

Results

Paleontological Resource Potential of the Project Area

The Holocene sand dune deposits mapped at the surface of the project are typically too young to contain fossilized remains and have been assigned a low paleontological sensitivity, in accordance with the SVP (2010) guidelines. These sediments may be underlain at moderate depth by the Quaternary Lake Cahuilla deposits, which have a high paleontological resource potential because they have yielded a well-documented record of significant vertebrate fossils in the vicinity of the project area and throughout the Coachella Valley (Arnal 1961; Deméré 2002; Ingwall 2008; McLeod 2017; Waters 1983; and Whistler et al. 1995).

Impact Analysis

Maximum depth for project excavation will be 8 feet bgs; therefore, the sensitive Quaternary Lake Cahuilla deposits that may be present at moderate depth (approximately 10 feet bgs) below younger Quaternary surficial sand dune deposits are unlikely to be impacted by project development. As a result, the potential for encountering fossil resources during project-related ground disturbance is low and impacts to paleontological resources are not anticipated. Therefore, further paleontological resource



management is not recommended. In the event an unanticipated fossil discovery is made during the course of project development, then in accordance with SVP guidelines (2010), a qualified Professional Paleontologist should be retained in order to examine the find and to determine if further paleontological resources mitigation is warranted.

If you have any questions regarding this Paleontological Resource Assessment, please contact us.

Sincerely,

Rincon Consultants, Inc.

Heather Clifford, M.S.
Associate Paleontologist

Jessica DeBusk, B.S., M.B.A.
Principal Investigator/Program Manager

Jennifer Haddow, Ph.D.
Principal Environmental Scientist

Attachments

Attachment A Figures



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Attachment A

Figures



Figure 1 Project Vicinity Map



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- Project Alignment
- Project Location

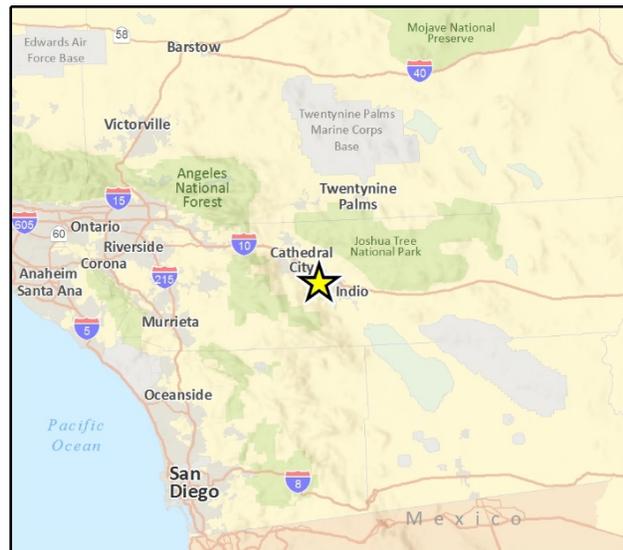
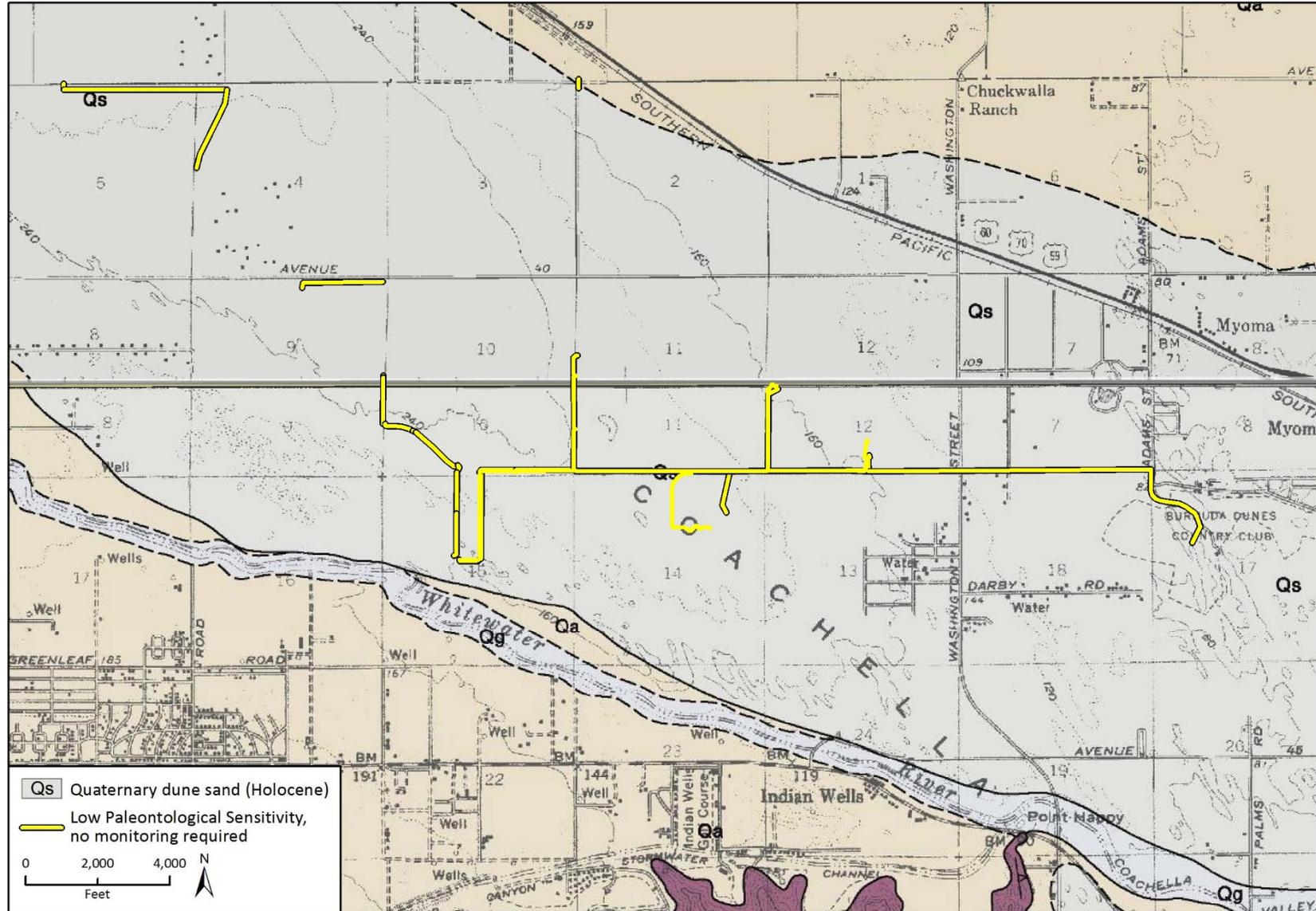


Fig 1 Regional Project Location 20180308



Figure 2 Geology and Paleontological Sensitivity of the Project Area



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Additional data provided by Dibblee, T.W., and Minch, J.A., 2008, Geologic map of the Palm Desert & Coachella 15 minute quadrangles, Riverside County, California: Dibblee Geological Foundation, Dibblee Foundation Map DF-373, scale 1:62,500.

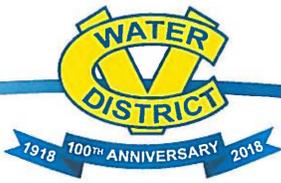
Fig 2 Geo Paleo

Appendix F

AB 52 Tribal Cultural Resources Consultation

Attachment 1

AB 52 Notification Letters



COACHELLA VALLEY WATER DISTRICT

Established in 1918 as a public agency

GENERAL MANAGER
Jim Barrett

ASSISTANT GENERAL MANAGER
Robert Cheng

April 5, 2018

«First_Name» «Last_Name»
«Title»
«Tribe»
«Address»
«City_State_Zip»

Dear «Salutation» «Last_Name»:

Subject: 2017/18 Non-Potable Water Connections Project Formal Notification of Assembly Bill (AB) 52 Consultation Regarding Tribal Resources under the California Environmental Quality Act (CEQA) Public Resources Code (PRC) §21080.3.1: AB 52 (Gatto, 2014)

The Coachella Valley Water District (CVWD) is conducting AB52 consultation for the *2017/18 Non-Potable Water Connections Project* (proposed project). Please consider this letter and preliminary project information as the initiation for AB52 Consultation for Tribal Resources under CEQA PRC §21080.3.1; AB 52 (Gatto, 2014).

CVWD's Environmental Services Department staff would like to meet with you at your earliest convenience to discuss the proposed project and AB52 compliance. Please respond within 30 days if you would like to consult on this project.

CVWD understands that Tribal information submitted to our agency shall be kept confidential (PRC §21082.3(c)(1)). The purpose of AB52 consultation is to obtain Tribal expertise on the subject project area (PRC §21080.3.1(a)) via Tribal submittal of comments, information and/or project design measures.

According to the State of California Governor's Office of Planning and Research's *Discussion Draft Technical Advisory: AB 52 and Tribal Cultural Resources in CEQA* report (May 2015), the consultation process shall be considered concluded when either: 1) The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or 2) A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC §21080.3.2(b)).

Included for your information is a brief description of the proposed project and location (figure enclosed), and lead agency contact person pursuant to PRC §21080.3.1(d).

Brief Description of the Proposed Project and Location:

CVWD proposes to construct and operate approximately 9.1 miles of non-potable water (NPW) pipeline segments and connections to provide irrigation water for six local golf courses, one recreational vehicle (RV) resort, one planned future development, and replacement of an existing pump station for a cumulative pumping capacity of approximately 12,000 gallon per minute (gpm) for low pressure system and 12,000 gpm for high pressure system. The proposed NPW end users currently use groundwater or CVWD-supplied potable water for irrigation. The proposed project would deliver a blend of tertiary treated water from CVWD's existing Water Reclamation Plant No. 10 (WRP10) facility and Colorado River water from the Mid-Valley Pipeline terminus at WRP10. CVWD's WRP10 facility is located at 43000 Cook Street within the city of Palm Desert. Existing land use in the project area is primarily residential and recreational, with some commercial and light industrial land use. The proposed project would help to expand and connect an existing NPW pipeline system that primarily traverses public roads and through residential and commercial areas. The project corridor is located within the city of Palm Desert and the unincorporated community of Bermuda Dunes within Riverside County. The purpose of the project is to reduce groundwater overdraft in accordance with CVWD's Water Management Plan goals and objectives (WMP 2002, and 2010 WRP Update) by providing up to 6,500 acre-feet per year (AFY) of NPW for irrigation use in CVWD's service area. Refer to enclosed attachments: *Figure 1 Regional Project Location* and *Figure 2 Project Site Vicinity*.

Contact:

If you have any questions regarding the project or content of this letter, please contact William Patterson, Environmental Supervisor, at (760) 398-2651 extension 2545; or email:

WPatterson@cvwd.org

Sincerely,



Steve Bigley
Director of Environmental Services

Enclosures/2/as
File No. 0643.5219



List of mail merge recipients of letter regarding AB52 from Steve Bigley dated April 5, 2018.

Patricia Garcia-Plotkin
Tribal Historic Preservation Director
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Amanda Vance
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San Jacinto, CA 92581
Certified No. 7014 2870 0002 1516 0312

Figure 1 Regional Project Location



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-  Project Alignment
-  Project Location

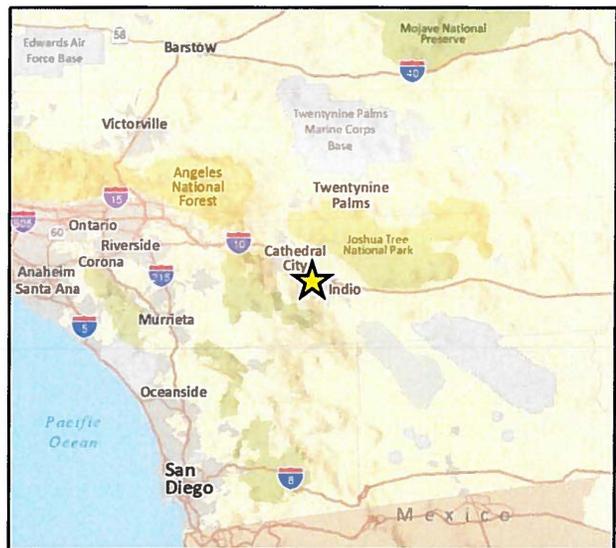
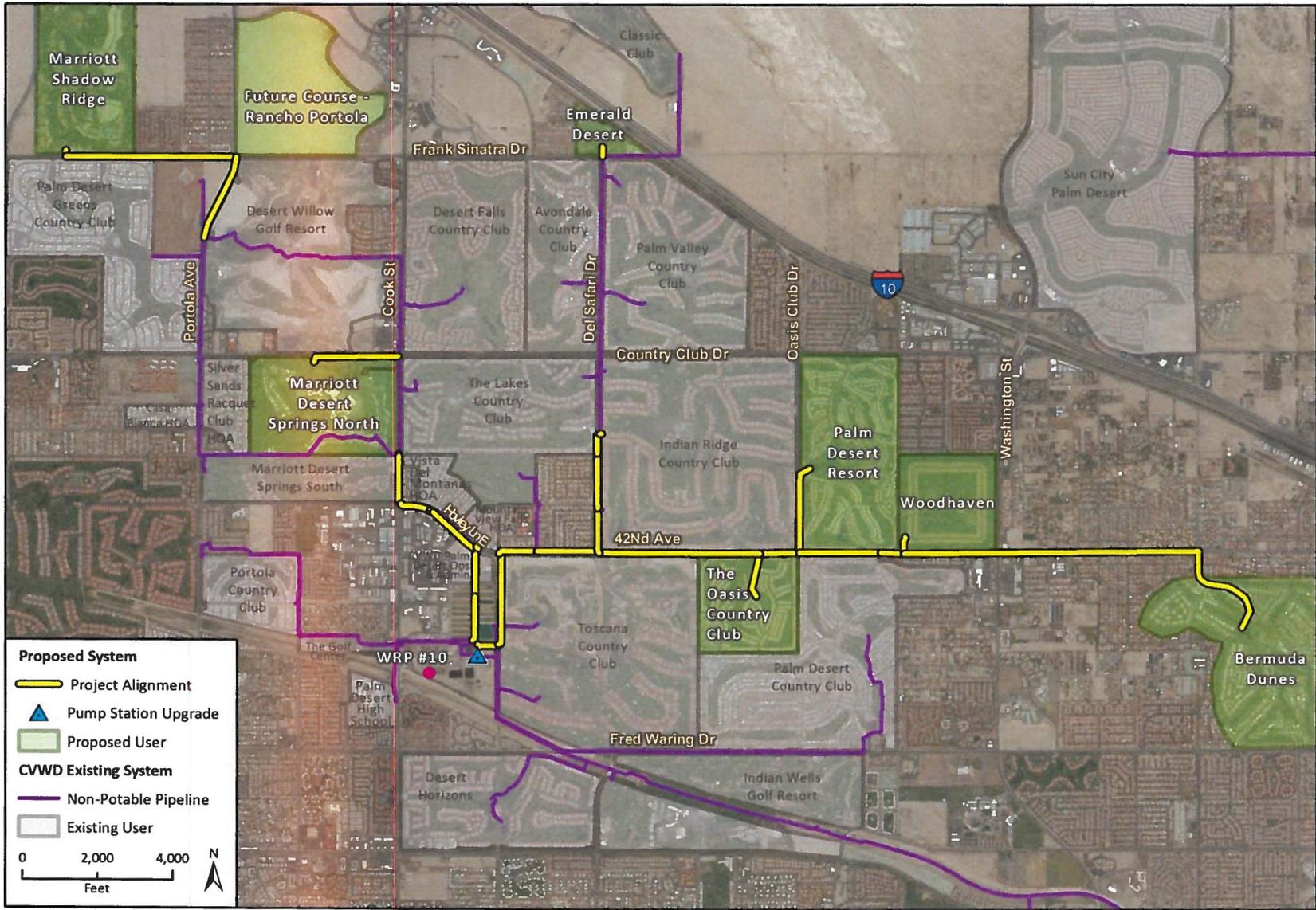


Figure 2 Project Site Vicinity



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Additional data provided by Coachella Valley Water District, 2018.

Attachment 2

AB 52 Responses



AUGUSTINE BAND OF CAHUILLA INDIANS

PO Box 846 84-481 Avenue 54 Coachella CA 92236

Telephone: (760) 398-4722

Fax (760) 369-7161

Tribal Chairperson: Amanda Vance

Tribal Vice-Chairperson: William Vance

Tribal Secretary: Victoria Martin

elml
IC-ENVIRONMENTAL SERVICES
IC-OPERATIONS

File: 0643.5219
0932.55
0022.100.11



April 11, 2018

Steve Bigley
Coachella Valley Water District
P.O. Box 1058
Coachella, CA 92236

**RE: 2017/18 Non-Potable Water Connections Project Formal of AB 52 Consultation
Regarding Tribal Resources under the CEQA Public Resources Code 21080.3.1: AB 52**

Dear Mr. Bigley-

Thank you for the opportunity to offer input concerning the development of the above-identified project. We appreciate your sensitivity to the cultural resources that may be impacted by your project, and the importance of these cultural resources to the Native American peoples that have occupied the land surrounding the area of your project for thousands of years. Unfortunately, increased development and lack of sensitivity to cultural resources has resulted in many significant cultural resources being destroyed or substantially altered and impacted. Your invitation to consult on this project is greatly appreciated.

At this time we are unaware of specific cultural resources that may be affected by the proposed project. We encourage you to contact other Native American Tribes and individuals within the immediate vicinity of the project site that may have specific information concerning cultural resources that may be located in the area. We also encourage you to contract with a monitor who is qualified in Native American cultural resources identification and who is able to be present on-site full-time during the pre-construction and construction phase of the project. Please notify us immediately should you discover any cultural resources during the development of this project.

Very truly yours,

Victoria Martin
Tribal Secretary

1
w SCANNED

Appendix G

Noise Measurement Data Sheets

**Noise Measurement Survey Data Sheet for Noise Measurement
Number 1 (December 1, 2017)**



Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A" and generally response time should be set to "fast." For additional information, please review the *Noise Measurement Protocol* in the pelican case.

Project Name: NPW Cxns **Job Number:** 17-04981
Date: 12/01/17 **Operator Name:** Aubrey Mescher

Measurement #1

Location: El Dorado Sandcastle **Begin time:** 4:27 **Finish time:** 4:37
Measurement No.: 1 **Wind (mph):** 0 **Direction:** 0
Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
Calibration (dB): Start: _____ End: _____
Primary Noise Sources: traffic **Distance:** adjacent
Secondary Noise Sources: me walking; airplanes x 4;
Notes: dog barking; large trucks x 2
Traffic Count: Passenger Cars: 10/min
 Medium to Heavy Duty Trucks (3 axles): 2 Heavy Duty Trucks (4+ axles): _____
Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____
Leq: 66.7 **SEL:** 94.4 **Lmax:** _____ **Lmin:** _____ **PK:** _____
L(05): 73.1 **L(10):** 70.9 **L(50):** 61.0 **L(90):** 50.5 **L(95):** 48.0
Response: Slow Fast Peak Impulse

Measurement #2

Location: _____ **Begin time:** _____ **Finish time:** _____
Measurement No.: _____ **Wind (mph):** _____ **Direction:** _____
Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
Calibration (dB): Start: _____ End: _____
Primary Noise Sources: _____ **Distance:** _____
Secondary Noise Sources: _____
Notes: _____
Traffic Count: Passenger Cars: _____
 Medium to Heavy Duty Trucks (3 axles): _____ Heavy Duty Trucks (4+ axles): _____
Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____
Leq: _____ **SEL:** _____ **Lmax:** _____ **Lmin:** _____ **PK:** _____
L(05): _____ **L(10):** _____ **L(50):** _____ **L(90):** _____ **L(95):** _____
Response: Slow Fast Peak Impulse

**Noise Measurement Survey Data Sheet for Noise Measurement
Number 2 (May 10, 2017)**

AMBIENT NOISE SURVEY DATA SHEET

Project: _____
 Date: _____
 Operator: _____

Job Number: _____

Station: <u>4</u> Begin: <u>1215</u> Measurement No. <u>4</u> Finish: <u>1230</u> Wind: <u>1</u> mph Direction: _____ Temperature: _____ Cloud Cover Class Daytime <input type="checkbox"/> 1 - Overcast >80% <input type="checkbox"/> 2 - Light 20-80% <input type="checkbox"/> 3 - Sunny <20% Nighttime <input type="checkbox"/> 4 - Clear <50% <input type="checkbox"/> 5 - Overcast >50% Primary Noise Source: <u>traffic/cars</u> Distance: <u>street swiping</u> Secondary Noise Sources: <u>pedestrians</u> Notes: _____ Traffic LDAT: _____ MDT: _____ HDT: _____ Leq: _____ L(10): <u>72.4</u> Lmin: <u>47.2</u> L(33): _____ Lmax: <u>79.3</u> L(50): <u>63.9</u> Peak: _____ L(90): <u>51.5</u> Calibration Start: _____ dB End: _____ dB Response: <input type="checkbox"/> Slow <input type="checkbox"/> Fast <input type="checkbox"/> Peak <input type="checkbox"/> Impulse Weighting: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> Linear Octave Filter: <input type="checkbox"/> NA <input type="checkbox"/> _____ Hz	Station: _____ Begin: _____ Measurement No. _____ Finish: _____ Wind: _____ mph Direction: _____ Temperature: _____ Cloud Cover Class Daytime <input type="checkbox"/> 1 - Overcast >80% <input type="checkbox"/> 2 - Light 20-80% <input type="checkbox"/> 3 - Sunny <20% Nighttime <input type="checkbox"/> 4 - Clear <50% <input type="checkbox"/> 5 - Overcast >50% Primary Noise Source: _____ Distance: _____ Secondary Noise Sources: _____ Notes: _____ Traffic LDAT: _____ MDT: _____ HDT: _____ Leq: _____ L(10): _____ Lmin: _____ L(33): _____ Lmax: _____ L(50): _____ Peak: _____ L(90): _____ Calibration Start: _____ dB End: _____ dB Response: <input type="checkbox"/> Slow <input type="checkbox"/> Fast <input type="checkbox"/> Peak <input type="checkbox"/> Impulse Weighting: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> Linear Octave Filter: <input type="checkbox"/> NA <input type="checkbox"/> _____ Hz
---	---

ph 79.4

Note: Provide Sketch of Location on Back.

**Noise Measurement Survey Data Sheet for Noise Measurement
Number 3 (May 10, 2017)**

AMBIENT NOISE SURVEY DATA SHEET

Project: _____
 Date: _____
 Operator: _____

Job Number: _____

Station: <u>3</u> Begin : _____ Measurement No. <u>3</u> Finish: _____ Wind: <u>None</u> mph Direction: _____ Temperature: _____ Cloud Cover Class Daytime <input type="checkbox"/> 1 - Overcast >80% <input type="checkbox"/> 2 - Light 20-80% <input type="checkbox"/> 3 - Sunny <20% Nighttime <input type="checkbox"/> 4 - Clear <50% <input type="checkbox"/> 5 - Overcast >50% Primary Noise Source: <u>Construction on WRP10</u> Distance: _____ Secondary Noise Sources: <u>dogs</u> <u>landscaping</u> <u>blower down st</u> Notes: _____ _____ Traffic LDAT: _____ _____ MDT: _____ HDT: _____ Leq: <u>46.8</u> L(10): <u>52.5</u> <u>51.4</u> Lmin: <u>36.7</u> L(33): _____ Lmax: _____ L(50): <u>48.43d</u> Peak: _____ L(90): <u>40</u>	Station: _____ Begin : _____ Measurement No. _____ Finish: _____ Wind: _____ mph Direction: _____ Temperature: _____ Cloud Cover Class Daytime <input type="checkbox"/> 1 - Overcast >80% <input type="checkbox"/> 2 - Light 20-80% <input type="checkbox"/> 3 - Sunny <20% Nighttime <input type="checkbox"/> 4 - Clear <50% <input type="checkbox"/> 5 - Overcast >50% Primary Noise Source: _____ Distance: _____ Secondary Noise Sources: _____ Notes: _____ _____ Traffic LDAT: _____ _____ MDT: _____ HDT: _____ Leq: _____ L(10): _____ Lmin: _____ L(33): _____ Lmax: _____ L(50): _____ Peak: _____ L(90): _____
Calibration Start: _____ dB End: _____ dB Response: <input type="checkbox"/> Slow <input type="checkbox"/> Fast <input type="checkbox"/> Peak <input type="checkbox"/> Impulse Weighting: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> Linear Octave Filter: <input type="checkbox"/> NA <input type="checkbox"/> _____ Hz	Calibration Start: _____ dB End: _____ dB Response: <input type="checkbox"/> Slow <input type="checkbox"/> Fast <input type="checkbox"/> Peak <input type="checkbox"/> Impulse Weighting: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> Linear Octave Filter: <input type="checkbox"/> NA <input type="checkbox"/> _____ Hz

sel 76.3
 spl 63.0
 ph 42.5

Note: Provide Sketch of Location on Back.

**Noise Measurement Data For Noise Measurement Number 1
(December 1, 2017)**

Freq Weight : A
 Time Weight : FAST
 Level Range : 30-90
 Max dB : 80.4 - 2017/12/01 17: 31: 16
 Level Range : 30-90
 SEL : 94. 4
 Leq : 66. 7

No. s	Date Time	(dB)				
1	2017/12/01 17: 25: 04	58. 3	61. 9	74. 1	65. 4	62. 9
6	2017/12/01 17: 25: 19	57. 5	73. 3	66. 5	61. 0	67. 6
11	2017/12/01 17: 25: 34	58. 4	55. 4	65. 8	71. 5	67. 9
16	2017/12/01 17: 25: 49	74. 5	71. 4	65. 4	60. 5	58. 0
21	2017/12/01 17: 26: 04	57. 3	67. 4	74. 9	73. 1	63. 0
26	2017/12/01 17: 26: 19	65. 0	61. 0	65. 0	61. 4	60. 4
31	2017/12/01 17: 26: 34	60. 1	65. 1	62. 3	53. 2	48. 1
36	2017/12/01 17: 26: 49	48. 1	50. 7	54. 0	66. 5	65. 0
41	2017/12/01 17: 27: 04	57. 1	49. 9	49. 7	47. 9	48. 0
46	2017/12/01 17: 27: 19	49. 2	47. 4	50. 5	49. 4	52. 3
51	2017/12/01 17: 27: 34	55. 9	59. 0	59. 1	58. 2	61. 3
56	2017/12/01 17: 27: 49	57. 4	67. 2	60. 1	57. 6	70. 2
61	2017/12/01 17: 28: 04	67. 3	57. 7	52. 2	59. 5	66. 1
66	2017/12/01 17: 28: 19	59. 7	68. 3	61. 1	65. 4	57. 0
71	2017/12/01 17: 28: 34	53. 4	60. 3	69. 8	60. 7	74. 4
76	2017/12/01 17: 28: 49	63. 9	56. 8	50. 6	48. 9	55. 7
81	2017/12/01 17: 29: 04	64. 8	72. 6	64. 9	62. 1	57. 6
86	2017/12/01 17: 29: 19	58. 1	61. 4	69. 8	65. 4	60. 8
91	2017/12/01 17: 29: 34	67. 9	62. 8	59. 8	56. 6	53. 7
96	2017/12/01 17: 29: 49	52. 3	54. 1	63. 1	66. 8	58. 7
101	2017/12/01 17: 30: 04	54. 4	59. 1	76. 0	66. 7	72. 8
106	2017/12/01 17: 30: 19	65. 6	66. 7	61. 0	57. 2	61. 0
111	2017/12/01 17: 30: 34	69. 9	68. 0	62. 0	69. 6	60. 6
116	2017/12/01 17: 30: 49	70. 7	68. 2	63. 8	59. 3	53. 8
121	2017/12/01 17: 31: 04	51. 0	56. 9	76. 8	79. 2	76. 3
126	2017/12/01 17: 31: 19	64. 3	61. 2	72. 7	66. 7	57. 8
131	2017/12/01 17: 31: 34	51. 9	48. 0	47. 4	45. 8	45. 9
136	2017/12/01 17: 31: 49	46. 1	48. 2	52. 7	57. 7	70. 3
141	2017/12/01 17: 32: 04	71. 3	66. 7	61. 5	66. 9	74. 4
146	2017/12/01 17: 32: 19	69. 7	62. 7	71. 8	61. 1	59. 4
151	2017/12/01 17: 32: 34	58. 0	54. 7	60. 9	66. 5	57. 4
156	2017/12/01 17: 32: 49	54. 5	56. 1	56. 3	56. 7	51. 0
161	2017/12/01 17: 33: 04	48. 3	47. 2	53. 2	66. 0	77. 7
166	2017/12/01 17: 33: 19	72. 1	63. 5	57. 3	55. 2	53. 5
171	2017/12/01 17: 33: 34	53. 7	59. 1	68. 6	73. 6	66. 3
176	2017/12/01 17: 33: 49	59. 5	54. 4	52. 3	53. 5	56. 7
181	2017/12/01 17: 34: 04	68. 7	74. 0	66. 0	63. 0	62. 4
186	2017/12/01 17: 34: 19	64. 4	70. 7	62. 8	66. 4	65. 9
191	2017/12/01 17: 34: 34	61. 4	55. 4	55. 2	56. 4	66. 4
196	2017/12/01 17: 34: 49	61. 9	54. 9	54. 6	58. 7	55. 6

**Noise Measurement Data For Noise Measurement Number 2
(May 10, 2017)**

Freq Weight : A
 Time Weight : FAST
 Level Range : 40-100
 Max dB : 79.3 - 2009/04/01 22: 46: 30
 Level Range : 40-100
 SEL : 97.4
 Leq : 67.9

No. s	Date Time	(dB)				
1	2009/04/01 22: 45: 55	63.9	60.6	65.5	71.0	75.2
6	2009/04/01 22: 46: 00	75.5	68.6	68.7	73.0	71.0
11	2009/04/01 22: 46: 05	71.2	73.0	69.2	66.4	66.6
16	2009/04/01 22: 46: 10	66.8	69.2	67.9	62.6	58.9
21	2009/04/01 22: 46: 15	56.4	53.9	54.0	56.9	63.9
26	2009/04/01 22: 46: 20	68.7	68.4	67.3	62.5	59.5
31	2009/04/01 22: 46: 25	56.9	56.0	59.3	65.3	71.9
36	2009/04/01 22: 46: 30	77.6	72.1	66.3	65.1	61.1
41	2009/04/01 22: 46: 35	59.2	56.5	54.6	53.5	52.7
46	2009/04/01 22: 46: 40	53.8	55.9	60.6	64.7	70.7
51	2009/04/01 22: 46: 45	72.2	74.0	76.3	71.5	67.4
56	2009/04/01 22: 46: 50	68.0	71.5	69.1	65.1	67.1
61	2009/04/01 22: 46: 55	67.6	68.3	66.2	64.6	63.3
66	2009/04/01 22: 47: 00	64.2	63.7	65.1	66.9	70.5
71	2009/04/01 22: 47: 05	69.8	70.4	66.5	64.0	66.0
76	2009/04/01 22: 47: 10	65.9	64.5	62.2	59.9	58.5
81	2009/04/01 22: 47: 15	54.6	55.3	59.3	61.2	66.1
86	2009/04/01 22: 47: 20	65.6	63.5	62.3	65.9	65.7
91	2009/04/01 22: 47: 25	67.4	69.2	70.6	69.7	69.9
96	2009/04/01 22: 47: 30	73.4	69.5	64.3	60.6	57.4
101	2009/04/01 22: 47: 35	53.7	51.1	52.0	52.1	51.2
106	2009/04/01 22: 47: 40	49.8	50.0	50.6	52.8	61.0
111	2009/04/01 22: 47: 45	59.6	60.2	62.9	58.7	58.4
116	2009/04/01 22: 47: 50	63.6	65.1	64.2	59.7	59.0
121	2009/04/01 22: 47: 55	59.3	59.6	61.7	61.2	59.5
126	2009/04/01 22: 48: 00	59.3	56.3	58.6	64.7	72.3
131	2009/04/01 22: 48: 05	77.8	71.0	72.8	72.8	72.5
136	2009/04/01 22: 48: 10	70.2	67.2	63.7	60.5	58.3
141	2009/04/01 22: 48: 15	57.3	55.6	55.6	56.7	56.5
146	2009/04/01 22: 48: 20	58.1	58.6	60.2	65.1	68.2
151	2009/04/01 22: 48: 25	67.4	67.3	66.8	63.8	60.4
156	2009/04/01 22: 48: 30	57.2	53.5	51.6	50.1	50.6
161	2009/04/01 22: 48: 35	49.9	48.6	48.2	47.9	47.6
166	2009/04/01 22: 48: 40	47.6	48.0	49.3	50.3	51.2
171	2009/04/01 22: 48: 45	52.0	54.4	59.8	65.5	71.1
176	2009/04/01 22: 48: 50	75.8	75.4	72.6	70.6	69.0
181	2009/04/01 22: 48: 55	72.5	73.0	71.1	64.9	65.4
186	2009/04/01 22: 49: 00	63.6	63.5	61.9	58.4	56.5
191	2009/04/01 22: 49: 05	54.9	55.6	59.2	63.1	64.7
196	2009/04/01 22: 49: 10	64.4	61.4	59.7	58.4	56.7
201	2009/04/01 22: 49: 15	59.6	64.8	69.3	73.6	75.2
206	2009/04/01 22: 49: 20	69.9	65.1	61.3	61.6	59.1
211	2009/04/01 22: 49: 25	57.3	56.6	55.2	55.9	57.5
216	2009/04/01 22: 49: 30	60.0	63.3	70.0	73.1	70.5
221	2009/04/01 22: 49: 35	68.3	72.5	71.7	62.4	59.5
226	2009/04/01 22: 49: 40	64.0	70.3	73.9	73.5	70.0
231	2009/04/01 22: 49: 45	67.4	66.6	64.9	60.4	58.1
236	2009/04/01 22: 49: 50	56.4	59.0	62.3	69.0	66.6
241	2009/04/01 22: 49: 55	60.8	55.3	55.5	57.7	64.5
246	2009/04/01 22: 50: 00	66.4	65.8	62.8	59.9	56.7
251	2009/04/01 22: 50: 05	55.4	53.7	51.8	50.9	51.2
256	2009/04/01 22: 50: 10	50.4	50.3	49.3	49.5	50.9
261	2009/04/01 22: 50: 15	54.4	58.6	64.8	65.2	62.9
266	2009/04/01 22: 50: 20	63.2	65.8	65.8	65.7	68.6
271	2009/04/01 22: 50: 25	72.0	73.4	71.1	66.7	61.5
276	2009/04/01 22: 50: 30	61.0	61.8	61.2	60.4	58.1
281	2009/04/01 22: 50: 35	55.3	52.4	50.9	50.5	49.1
286	2009/04/01 22: 50: 40	48.5	48.4	47.6	47.7	47.8
291	2009/04/01 22: 50: 45	47.9	48.3	48.5	49.2	50.4
296	2009/04/01 22: 50: 50	53.3	57.4	63.1	64.3	65.7
301	2009/04/01 22: 50: 55	68.5	71.3	72.4	69.9	69.1
306	2009/04/01 22: 51: 00	71.4	72.6	71.2	71.1	71.6
311	2009/04/01 22: 51: 05	69.3	63.8	65.2	69.2	72.3
316	2009/04/01 22: 51: 10	74.0	70.2	66.3	65.2	68.4
321	2009/04/01 22: 51: 15	70.7	70.2	70.1	69.8	64.1
326	2009/04/01 22: 51: 20	60.6	64.9	69.7	70.4	65.2
331	2009/04/01 22: 51: 25	60.2	56.8	54.9	54.0	55.6
336	2009/04/01 22: 51: 30	59.8	64.9	71.3	72.5	67.5
341	2009/04/01 22: 51: 35	62.6	66.7	67.9	68.3	66.2
346	2009/04/01 22: 51: 40	66.6	68.7	68.1	68.5	71.4
351	2009/04/01 22: 51: 45	73.8	71.0	65.8	60.1	57.8
356	2009/04/01 22: 51: 50	55.4	53.7	52.8	53.0	53.6
361	2009/04/01 22: 51: 55	53.3	52.9	51.0	49.8	50.9
366	2009/04/01 22: 52: 00	50.6	50.2	51.1	53.5	55.6
371	2009/04/01 22: 52: 05	64.2	72.0	75.3	70.5	63.8
376	2009/04/01 22: 52: 10	57.9	53.4	53.0	52.6	52.1
381	2009/04/01 22: 52: 15	58.4	66.2	73.3	77.0	71.3
386	2009/04/01 22: 52: 20	64.7	59.9	62.5	63.6	62.4
391	2009/04/01 22: 52: 25	61.5	61.7	62.5	63.1	62.5
396	2009/04/01 22: 52: 30	62.2	62.8	62.8	65.7	71.6
401	2009/04/01 22: 52: 35	73.9	70.6	64.6	63.3	69.5
406	2009/04/01 22: 52: 40	74.9	75.9	71.2	69.4	65.3
411	2009/04/01 22: 52: 45	60.3	57.0	55.1	56.5	59.0
416	2009/04/01 22: 52: 50	62.2	66.6	68.3	68.5	65.2
421	2009/04/01 22: 52: 55	62.4	62.6	65.1	63.2	62.6

426	2009/04/01	22: 53: 00	62.0	60.8	59.1	55.6	56.7
431	2009/04/01	22: 53: 05	56.6	61.1	65.3	69.8	69.2
436	2009/04/01	22: 53: 10	66.5	61.8	58.9	57.9	54.9
441	2009/04/01	22: 53: 15	53.8	52.9	52.3	51.9	52.4
446	2009/04/01	22: 53: 20	57.8	61.8	63.6	62.6	59.6
451	2009/04/01	22: 53: 25	57.3	52.5	51.5	50.0	48.8
456	2009/04/01	22: 53: 30	49.3	49.1	49.3	49.3	50.6
461	2009/04/01	22: 53: 35	50.9	52.7	53.9	76.4	62.4
466	2009/04/01	22: 53: 40	69.3	71.3	71.5	72.1	76.4
471	2009/04/01	22: 53: 45	71.7	73.2	70.8	66.9	64.3
476	2009/04/01	22: 53: 50	66.7	69.8	69.9	68.1	64.6
481	2009/04/01	22: 53: 55	64.8	68.3	69.7	67.9	61.0
486	2009/04/01	22: 54: 00	58.6	57.0	57.2	56.5	56.4
491	2009/04/01	22: 54: 05	54.8	52.2	51.7	50.7	49.4
496	2009/04/01	22: 54: 10	50.0	49.3	49.2	49.5	50.3
501	2009/04/01	22: 54: 15	51.9	53.1	55.9	60.3	64.2
506	2009/04/01	22: 54: 20	66.6	65.7	60.9	56.0	54.0
511	2009/04/01	22: 54: 25	52.7	53.0	53.7	56.9	62.7
516	2009/04/01	22: 54: 30	64.6	65.8	65.5	68.8	69.1
521	2009/04/01	22: 54: 35	68.1	64.1	64.1	67.5	69.7
526	2009/04/01	22: 54: 40	70.6	70.3	67.2	64.9	67.7
531	2009/04/01	22: 54: 45	67.2	68.0	69.3	65.5	64.7
536	2009/04/01	22: 54: 50	61.0	63.3	58.3	58.4	57.5
541	2009/04/01	22: 54: 55	58.0	57.8	55.0	56.5	56.0
546	2009/04/01	22: 55: 00	54.0	52.6	51.3	50.8	53.8
551	2009/04/01	22: 55: 05	52.4	56.4	59.5	63.4	72.0
556	2009/04/01	22: 55: 10	75.1	71.8	70.0	69.2	73.2
561	2009/04/01	22: 55: 15	71.3	66.0	62.6	59.4	63.8
566	2009/04/01	22: 55: 20	72.6	74.3	66.4	69.1	74.6
571	2009/04/01	22: 55: 25	75.0	68.0	66.2	65.3	62.2
576	2009/04/01	22: 55: 30	59.5	56.9	58.4	64.1	69.9
581	2009/04/01	22: 55: 35	69.2	63.3	62.4	64.1	66.9
586	2009/04/01	22: 55: 40	66.5	65.6	67.0	66.6	63.7
591	2009/04/01	22: 55: 45	68.9	67.9	64.3	60.3	59.7
596	2009/04/01	22: 55: 50	60.5	61.3	65.2	67.8	67.4
601	2009/04/01	22: 55: 55	68.3	73.4	75.5	71.6	62.1
606	2009/04/01	22: 56: 00	59.2	57.5	59.5	63.3	63.7
611	2009/04/01	22: 56: 05	65.9	69.2	70.2	70.3	63.6
616	2009/04/01	22: 56: 10	56.4	52.5	52.0	51.0	49.9
621	2009/04/01	22: 56: 15	47.9	49.3	48.2	47.4	47.6
626	2009/04/01	22: 56: 20	52.0	53.8	57.4	59.4	65.9
631	2009/04/01	22: 56: 25	67.8	67.5	60.6	58.9	57.8
636	2009/04/01	22: 56: 30	61.5	64.2	67.9	67.2	64.6
641	2009/04/01	22: 56: 35	62.6	65.3	64.6	64.6	64.6
646	2009/04/01	22: 56: 40	62.6	60.0	56.0	55.9	52.6
651	2009/04/01	22: 56: 45	50.2	50.0	49.6	49.8	52.0
656	2009/04/01	22: 56: 50	56.1	63.8	70.7	72.9	74.3
661	2009/04/01	22: 56: 55	74.0	69.5	64.3	58.4	63.0
666	2009/04/01	22: 57: 00	69.0	72.5	70.8	64.5	59.8
671	2009/04/01	22: 57: 05	58.8	61.9	64.7	68.3	72.8
676	2009/04/01	22: 57: 10	76.2	74.9	69.3	63.9	61.0
681	2009/04/01	22: 57: 15	58.4	59.8	61.7	65.6	67.9
686	2009/04/01	22: 57: 20	68.9	72.4	72.8	67.8	62.3
691	2009/04/01	22: 57: 25	60.6	64.7	72.7	71.3	65.8
696	2009/04/01	22: 57: 30	61.0	58.6	60.5	67.9	74.3
701	2009/04/01	22: 57: 35	74.8	77.2	72.9	67.5	66.3
706	2009/04/01	22: 57: 40	69.5	73.7	74.0	68.4	66.0
711	2009/04/01	22: 57: 45	65.7	65.0	65.4	66.3	69.4
716	2009/04/01	22: 57: 50	67.0	67.3	67.7	64.5	61.3
721	2009/04/01	22: 57: 55	58.5	58.4	57.4	62.0	64.3
726	2009/04/01	22: 58: 00	66.7	69.7	72.8	75.3	68.4
731	2009/04/01	22: 58: 05	63.8	61.3	58.7	60.5	65.0
736	2009/04/01	22: 58: 10	68.4	73.0	75.0	76.3	75.1
741	2009/04/01	22: 58: 15	75.1	73.3	69.0	65.8	63.2
746	2009/04/01	22: 58: 20	61.6	60.1	58.3	56.9	55.0
751	2009/04/01	22: 58: 25	52.8	51.4	50.4	50.3	51.7
756	2009/04/01	22: 58: 30	50.2	50.7	50.0	53.1	54.1
761	2009/04/01	22: 58: 35	58.0	61.1	65.7	68.2	68.8
766	2009/04/01	22: 58: 40	72.4	71.5	70.7	69.8	66.8
771	2009/04/01	22: 58: 45	65.1	61.1	59.0	59.1	59.6
776	2009/04/01	22: 58: 50	59.7	62.9	63.0	63.9	62.3
781	2009/04/01	22: 58: 55	60.6	62.5	66.8	70.3	66.6
786	2009/04/01	22: 59: 00	65.1	67.4	71.3	73.6	69.3
791	2009/04/01	22: 59: 05	67.8	66.4	68.5	74.1	75.5
796	2009/04/01	22: 59: 10	74.6	75.5	75.9	77.8	76.7
801	2009/04/01	22: 59: 15	75.2	75.2	76.2	73.6	73.3
806	2009/04/01	22: 59: 20	74.4	72.5	73.7	75.9	74.6
811	2009/04/01	22: 59: 25	71.2	70.6	71.0	71.0	76.4
816	2009/04/01	22: 59: 30	73.3	71.4	71.4	68.8	65.6
821	2009/04/01	22: 59: 35	64.4	62.5	61.5	60.7	59.1
826	2009/04/01	22: 59: 40	60.0	57.2	56.4	56.4	55.2
831	2009/04/01	22: 59: 45	56.2	54.1	53.5	53.3	51.9
836	2009/04/01	22: 59: 50	51.6	51.1	51.2	51.1	50.7
841	2009/04/01	22: 59: 55	53.6	56.0	59.6	63.4	66.8
846	2009/04/01	23: 00: 00	70.7	71.9	70.4	67.5	65.4
851	2009/04/01	23: 00: 05	65.5	68.9	77.3	74.4	68.1
856	2009/04/01	23: 00: 10	68.3	70.9	70.9	70.9	69.9
861	2009/04/01	23: 00: 15	70.2	67.3	68.7	72.8	70.2
866	2009/04/01	23: 00: 20	64.4	62.5	64.1	67.7	71.6
871	2009/04/01	23: 00: 25	72.8	70.3	66.9	68.0	70.5
876	2009/04/01	23: 00: 30	70.6	69.9	67.6	65.0	63.5
881	2009/04/01	23: 00: 35	61.0	60.8	59.3	57.9	57.2
886	2009/04/01	23: 00: 40	57.6	62.3	70.2	75.2	74.0
891	2009/04/01	23: 00: 45	73.5	72.6	72.2	66.7	68.4
896	2009/04/01	23: 00: 50	66.6	65.7	68.8	69.7	69.4

**Noise Measurement Data For Noise Measurement Number 3
(May 10, 2017)**

Freq Weight : A
 Time Weight : FAST
 Level Range : 40-100
 Max dB : 63.0 - 2009/04/01 22: 04: 17
 Level Range : 40-100
 SEL : 76.3
 Leq : 46.8

No. s	Date Time	(dB)				
1	2009/04/01 22: 04: 17	52.4	45.6	42.4	38.6	37.6
6	2009/04/01 22: 04: 22	39.5	38.5	39.3	47.7	40.7
11	2009/04/01 22: 04: 27	39.6	42.0	40.4	39.0	39.2
16	2009/04/01 22: 04: 32	40.7	38.0	37.7	38.6	39.3
21	2009/04/01 22: 04: 37	39.0	39.3	40.5	40.5	39.0
26	2009/04/01 22: 04: 42	38.2	39.9	40.9	41.2	40.8
31	2009/04/01 22: 04: 47	37.7	39.2	37.9	38.7	41.7
36	2009/04/01 22: 04: 52	39.1	46.2	43.2	40.1	46.2
41	2009/04/01 22: 04: 57	45.3	44.1	44.4	44.0	45.3
46	2009/04/01 22: 05: 02	47.6	45.4	47.8	45.8	47.6
51	2009/04/01 22: 05: 07	47.2	47.6	48.1	47.8	45.7
56	2009/04/01 22: 05: 12	46.3	45.7	43.6	45.4	48.1
61	2009/04/01 22: 05: 17	48.4	47.8	47.9	47.1	45.7
66	2009/04/01 22: 05: 22	45.2	47.1	47.9	48.5	48.4
71	2009/04/01 22: 05: 27	50.2	48.2	48.0	49.2	49.3
76	2009/04/01 22: 05: 32	49.9	50.4	50.8	49.9	47.8
81	2009/04/01 22: 05: 37	46.7	47.3	47.7	48.0	47.5
86	2009/04/01 22: 05: 42	48.9	47.8	46.7	48.3	46.7
91	2009/04/01 22: 05: 47	51.4	54.2	54.1	53.6	53.7
96	2009/04/01 22: 05: 52	51.4	49.7	50.3	50.9	52.2
101	2009/04/01 22: 05: 57	51.9	51.2	47.4	44.6	44.5
106	2009/04/01 22: 06: 02	47.2	48.3	47.6	48.4	49.4
111	2009/04/01 22: 06: 07	49.7	53.2	51.6	52.3	50.3
116	2009/04/01 22: 06: 12	49.1	48.7	50.6	51.5	49.8
121	2009/04/01 22: 06: 17	48.9	49.1	47.6	47.4	47.4
126	2009/04/01 22: 06: 22	45.7	43.8	42.2	41.9	42.7
131	2009/04/01 22: 06: 27	45.0	44.4	43.3	43.4	45.2
136	2009/04/01 22: 06: 32	47.4	46.2	46.2	45.9	45.3
141	2009/04/01 22: 06: 37	46.0	46.8	50.8	51.3	51.2
146	2009/04/01 22: 06: 42	51.6	54.4	53.2	52.1	51.4
151	2009/04/01 22: 06: 47	51.9	52.5	51.6	52.3	53.0
156	2009/04/01 22: 06: 52	53.6	53.7	54.8	54.7	54.7
161	2009/04/01 22: 06: 57	53.3	53.8	52.2	52.3	51.8
166	2009/04/01 22: 07: 02	53.7	52.6	51.2	51.6	50.2
171	2009/04/01 22: 07: 07	48.8	50.4	50.5	51.9	50.6
176	2009/04/01 22: 07: 12	49.8	49.3	50.6	53.1	54.1
181	2009/04/01 22: 07: 17	52.9	51.1	53.0	53.1	53.2
186	2009/04/01 22: 07: 22	52.5	51.3	51.6	51.9	50.8
191	2009/04/01 22: 07: 27	52.6	52.5	51.7	52.5	51.1
196	2009/04/01 22: 07: 32	50.7	52.5	51.8	51.5	50.3
201	2009/04/01 22: 07: 37	50.0	50.6	52.3	50.8	52.6
206	2009/04/01 22: 07: 42	52.2	52.2	50.1	50.4	50.0
211	2009/04/01 22: 07: 47	51.3	51.6	52.8	53.0	52.6
216	2009/04/01 22: 07: 52	53.2	52.5	53.8	53.1	53.2
221	2009/04/01 22: 07: 57	54.3	53.6	52.8	52.0	51.6
226	2009/04/01 22: 08: 02	51.4	50.6	51.8	51.7	52.4
231	2009/04/01 22: 08: 07	51.8	51.1	51.4	52.0	51.5
236	2009/04/01 22: 08: 12	52.5	52.1	50.5	52.0	50.2
241	2009/04/01 22: 08: 17	53.2	54.4	54.4	54.1	54.8
246	2009/04/01 22: 08: 22	53.2	52.6	51.8	51.1	50.8
251	2009/04/01 22: 08: 27	50.0	50.8	49.4	49.2	49.4
256	2009/04/01 22: 08: 32	47.8	42.0	41.0	44.6	41.1
261	2009/04/01 22: 08: 37	41.1	39.6	39.6	44.5	39.6
266	2009/04/01 22: 08: 42	46.8	42.7	43.7	41.8	39.8
271	2009/04/01 22: 08: 47	43.9	48.3	42.0	41.7	40.5
276	2009/04/01 22: 08: 52	43.0	39.9	39.6	39.1	42.4
281	2009/04/01 22: 08: 57	39.3	40.8	41.6	42.3	40.0
286	2009/04/01 22: 09: 02	41.6	41.2	40.7	45.5	43.6
291	2009/04/01 22: 09: 07	44.4	39.4	40.3	43.5	44.0
296	2009/04/01 22: 09: 12	40.2	42.4	40.3	40.3	41.7
301	2009/04/01 22: 09: 17	42.0	40.0	38.4	39.3	38.2
306	2009/04/01 22: 09: 22	39.7	38.9	38.8	40.1	42.2
311	2009/04/01 22: 09: 27	41.2	41.6	39.8	41.8	42.4
316	2009/04/01 22: 09: 32	41.3	44.2	42.2	39.6	44.8
321	2009/04/01 22: 09: 37	40.6	42.6	44.0	43.2	42.2
326	2009/04/01 22: 09: 42	41.9	42.9	42.7	42.3	41.3
331	2009/04/01 22: 09: 47	43.9	39.9	39.8	40.2	39.5
336	2009/04/01 22: 09: 52	39.8	38.7	41.9	45.5	41.0
341	2009/04/01 22: 09: 57	40.9	41.1	44.2	40.3	39.5
346	2009/04/01 22: 10: 02	39.5	43.2	40.8	41.5	42.5
351	2009/04/01 22: 10: 07	40.5	40.9	40.5	42.5	41.2
356	2009/04/01 22: 10: 12	41.1	40.6	40.0	39.8	39.4
361	2009/04/01 22: 10: 17	42.7	40.3	42.7	41.9	41.5
366	2009/04/01 22: 10: 22	42.1	41.0	40.5	41.6	42.6
371	2009/04/01 22: 10: 27	40.2	39.2	39.7	39.4	39.7
376	2009/04/01 22: 10: 32	41.4	39.7	39.3	39.3	39.0
381	2009/04/01 22: 10: 37	39.3	39.0	39.2	43.7	43.3
386	2009/04/01 22: 10: 42	39.0	39.2	39.2	41.5	39.5
391	2009/04/01 22: 10: 47	40.3	41.6	41.1	39.9	39.7
396	2009/04/01 22: 10: 52	40.4	43.8	45.7	44.7	48.3
401	2009/04/01 22: 10: 57	47.7	46.5	40.7	39.6	40.2
406	2009/04/01 22: 11: 02	41.6	40.5	42.0	46.1	49.7
411	2009/04/01 22: 11: 07	49.3	40.6	40.8	41.2	41.1
416	2009/04/01 22: 11: 12	40.6	43.5	45.9	43.1	41.1
421	2009/04/01 22: 11: 17	41.9	41.0	42.9	53.0	56.1

426	2009/04/01	22:11:22	56.4	55.6	56.2	55.1	55.5
431	2009/04/01	22:11:27	53.3	52.1	53.0	49.1	48.5
436	2009/04/01	22:11:32	48.5	48.8	47.1	48.9	42.4
441	2009/04/01	22:11:37	47.4	40.5	46.1	48.7	40.0
446	2009/04/01	22:11:42	44.5	47.1	47.6	45.2	48.0
451	2009/04/01	22:11:47	43.1	39.9	44.7	46.6	42.6
456	2009/04/01	22:11:52	38.9	38.4	42.1	45.5	44.8
461	2009/04/01	22:11:57	45.0	44.7	38.8	45.1	46.9
466	2009/04/01	22:12:02	47.4	46.9	46.0	45.2	43.1
471	2009/04/01	22:12:07	45.8	45.7	45.2	43.2	44.6
476	2009/04/01	22:12:12	45.2	45.4	43.6	41.0	41.8
481	2009/04/01	22:12:17	44.0	44.8	44.0	43.6	44.2
486	2009/04/01	22:12:22	44.3	43.8	44.5	40.4	42.7
491	2009/04/01	22:12:27	42.2	42.7	44.4	44.2	41.8
496	2009/04/01	22:12:32	42.4	43.8	43.6	44.5	44.9
501	2009/04/01	22:12:37	44.8	43.9	42.8	43.4	43.1
506	2009/04/01	22:12:42	38.7	39.1	39.8	42.2	43.2
511	2009/04/01	22:12:47	43.1	42.6	42.4	43.7	43.5
516	2009/04/01	22:12:52	44.1	44.2	45.7	42.8	42.3
521	2009/04/01	22:12:57	45.1	44.2	43.2	42.8	41.8
526	2009/04/01	22:13:02	43.5	41.2	40.2	42.6	41.1
531	2009/04/01	22:13:07	43.0	44.2	40.9	40.7	42.2
536	2009/04/01	22:13:12	42.4	42.1	43.8	43.2	42.7
541	2009/04/01	22:13:17	43.9	41.8	44.1	46.7	45.5
546	2009/04/01	22:13:22	44.2	43.6	42.9	43.3	42.6
551	2009/04/01	22:13:27	42.9	43.3	45.0	43.5	44.5
556	2009/04/01	22:13:32	43.9	45.1	44.2	43.6	43.7
561	2009/04/01	22:13:37	46.3	44.1	43.8	45.5	44.1
566	2009/04/01	22:13:42	43.9	43.7	43.8	43.6	44.7
571	2009/04/01	22:13:47	44.5	43.7	43.5	42.1	41.5
576	2009/04/01	22:13:52	42.7	53.6	49.8	44.7	52.4
581	2009/04/01	22:13:57	44.7	44.1	45.2	45.3	44.3
586	2009/04/01	22:14:02	44.8	45.4	44.9	43.9	43.3
591	2009/04/01	22:14:07	43.2	43.9	43.8	43.6	43.6
596	2009/04/01	22:14:12	42.9	43.1	44.2	44.5	42.8
601	2009/04/01	22:14:17	42.7	43.4	44.6	44.1	43.5
606	2009/04/01	22:14:22	43.5	43.1	43.3	41.4	42.2
611	2009/04/01	22:14:27	40.7	40.4	39.5	40.0	40.2
616	2009/04/01	22:14:32	40.1	39.9	40.0	39.7	39.6
621	2009/04/01	22:14:37	39.6	39.6	39.5	39.4	40.9
626	2009/04/01	22:14:42	42.0	41.5	41.2	41.4	40.7
631	2009/04/01	22:14:47	40.7	40.6	40.9	41.1	41.2
636	2009/04/01	22:14:52	40.7	41.8	41.6	41.0	41.4
641	2009/04/01	22:14:57	41.4	42.4	41.5	41.9	41.9
646	2009/04/01	22:15:02	42.1	42.5	43.0	42.5	42.0
651	2009/04/01	22:15:07	42.9	42.6	43.0	42.7	42.4
656	2009/04/01	22:15:12	42.1	43.5	41.2	41.8	41.9
661	2009/04/01	22:15:17	42.0	43.2	42.3	43.2	42.5
666	2009/04/01	22:15:22	42.4	42.8	42.9	42.8	42.8
671	2009/04/01	22:15:27	43.0	42.2	42.4	41.4	41.9
676	2009/04/01	22:15:32	42.8	42.5	41.9	42.0	42.4
681	2009/04/01	22:15:37	43.0	42.3	42.7	43.5	43.5
686	2009/04/01	22:15:42	42.1	43.0	42.0	41.5	41.3
691	2009/04/01	22:15:47	41.7	42.1	42.4	43.1	43.0
696	2009/04/01	22:15:52	42.4	42.4	43.2	42.3	42.6
701	2009/04/01	22:15:57	42.5	42.6	42.4	42.0	42.5
706	2009/04/01	22:16:02	42.1	42.3	42.0	41.7	41.1
711	2009/04/01	22:16:07	41.7	41.7	42.3	42.3	41.8
716	2009/04/01	22:16:12	42.7	42.5	43.5	42.3	42.2
721	2009/04/01	22:16:17	42.2	42.4	42.4	42.1	42.2
726	2009/04/01	22:16:22	42.0	43.5	42.6	41.8	41.8
731	2009/04/01	22:16:27	41.6	42.5	42.9	42.0	41.9
736	2009/04/01	22:16:32	42.4	42.6	42.7	42.4	42.5
741	2009/04/01	22:16:37	42.7	41.9	42.2	42.0	42.6
746	2009/04/01	22:16:42	43.1	42.7	43.6	41.3	41.8
751	2009/04/01	22:16:47	42.2	42.0	42.4	42.1	41.7
756	2009/04/01	22:16:52	42.0	41.6	42.0	42.1	42.5
761	2009/04/01	22:16:57	42.5	43.8	42.1	42.4	42.7
766	2009/04/01	22:17:02	43.0	42.7	42.0	41.9	41.4
771	2009/04/01	22:17:07	41.5	41.5	41.4	41.1	40.9
776	2009/04/01	22:17:12	41.7	41.3	41.3	41.9	42.0
781	2009/04/01	22:17:17	41.9	42.1	42.1	42.1	41.9
786	2009/04/01	22:17:22	40.9	41.2	41.4	42.7	43.4
791	2009/04/01	22:17:27	42.2	41.4	41.7	41.7	41.3
796	2009/04/01	22:17:32	41.8	43.4	42.5	42.4	42.5
801	2009/04/01	22:17:37	41.9	41.9	43.3	44.1	44.0
806	2009/04/01	22:17:42	43.3	41.3	42.2	41.4	41.4
811	2009/04/01	22:17:47	45.0	43.7	44.1	42.0	41.9
816	2009/04/01	22:17:52	42.3	42.2	42.1	41.7	42.3
821	2009/04/01	22:17:57	42.7	41.9	41.6	41.6	42.0
826	2009/04/01	22:18:02	42.1	42.5	46.9	45.7	43.8
831	2009/04/01	22:18:07	43.8	42.6	42.5	42.5	43.6
836	2009/04/01	22:18:12	42.2	41.6	41.3	41.7	41.9
841	2009/04/01	22:18:17	41.7	42.4	42.8	43.0	42.8
846	2009/04/01	22:18:22	43.1	43.4	44.2	43.6	43.8
851	2009/04/01	22:18:27	43.3	43.2	44.3	42.6	42.3
856	2009/04/01	22:18:32	43.4	43.3	42.7	42.6	43.9
861	2009/04/01	22:18:37	43.7	43.4	43.9	43.5	44.3
866	2009/04/01	22:18:42	43.8	43.9	43.0	43.0	43.1
871	2009/04/01	22:18:47	43.6	43.3	43.4	43.1	43.0
876	2009/04/01	22:18:52	43.2	43.3	43.3	43.1	42.5
881	2009/04/01	22:18:57	42.7	43.1	43.1	43.3	43.1
886	2009/04/01	22:19:02	43.1	43.4	43.9	43.6	43.7
891	2009/04/01	22:19:07	43.4	43.4	43.5	43.1	42.8
896	2009/04/01	22:19:12	43.1	43.2	43.9	44.0	43.8

Phased Noise Estimates for Non-Potable Connections Project

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Site Preparation

Receptor Location: Single-Family Residential 25 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.8	0.5	25	87
Rubber Tired Dozers [2]	85	1	0.7	0.5	25	86
Tractor/Loader/Backhoe [2]	85	1	0.8	0.5	25	87

TOTAL Leq DURING NORMAL OPE 92 dBA

Daytime Ambient without Equipment 72 dBA

Nighttime Ambient without Equipmen 0 dBA

Daytime Hours Operating: 8

Evening Hours Operating: 0

Nighttime Hours Operating: 0

Combined Daytime Hourly Leq: 92 dBA

Combined Nighttime Hourly Leq: 0 dBA

***ESTIMATED Ldn:* 87 dBA**

***ESTIMATED CNEL:* 87 dBA**

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Site Preparation

Receptor Location: Multi-Family Residential 70 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.8	0.5	70	78
Rubber Tired Dozers [2]	85	1	0.7	0.5	70	78
Tractor/Loader/Backhoe [2]	85	1	0.8	0.5	70	78
TOTAL Leq DURING NORMAL OPE	83					dBA
Daytime Ambient without Equipment	72					dBA
Nighttime Ambient without Equipmen	0					dBA
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
<i>Combined Daytime Hourly Leq:</i>	83					<i>dBA</i>
<i>Combined Nighttime Hourly Leq:</i>	0					<i>dBA</i>
ESTIMATED Ldn:	79					dBA
ESTIMATED CNEL:	79					dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Site Preparation

Receptor Location: Single-Family Residential 100 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.8	0.5	100	75
Rubber Tired Dozers [2]	85	1	0.7	0.5	100	74
Tractor/Loader/Backhoe [2]	85	1	0.8	0.5	100	75

TOTAL Leq DURING NORMAL OPE 80 dBA

Daytime Ambient without Equipment 72 dBA

Nighttime Ambient without Equipmen 0 dBA

Daytime Hours Operating: 8

Evening Hours Operating: 0

Nighttime Hours Operating: 0

Combined Daytime Hourly Leq: 80 dBA

Combined Nighttime Hourly Leq: 0 dBA

ESTIMATED Ldn: 76 dBA

ESTIMATED CNEL: 76 dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Site Preparation

Receptor Location: Single Family Residential 150 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.8	0.5	150	71
Rubber Tired Dozers [2]	85	1	0.7	0.5	150	71
Tractor/Loader/Backhoe [2]	85	1	0.8	0.5	150	71
TOTAL Leq DURING NORMAL OPE	76					dBA
Daytime Ambient without Equipment	72					dBA
Nighttime Ambient without Equipmen	0					dBA
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
<i>Combined Daytime Hourly Leq:</i>	<i>78</i>					<i>dBA</i>
<i>Combined Nighttime Hourly Leq:</i>	<i>0</i>					<i>dBA</i>
ESTIMATED Ldn:	74					dBA
ESTIMATED CNEL:	74					dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Grading

Receptor Location: Single-Family Residential 25 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.6	0.5	25	86
Rubber Tired Dozers [2]	85	1	0.6	0.5	25	86
Tractor/Loader/Backhoe [2]	85	1	0.7	0.5	25	86
TOTAL Leq DURING NORMAL OPE	91					dBA
Daytime Ambient without Equipment	72					dBA
Nighttime Ambient without Equipmen	0					dBA
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
<i>Combined Daytime Hourly Leq:</i>	<i>91</i>					<i>dBA</i>
<i>Combined Nighttime Hourly Leq:</i>	<i>0</i>					<i>dBA</i>
ESTIMATED Ldn:	86					dBA
ESTIMATED CNEL:	86					dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Grading

Receptor Location: Multi-Family Residential 70 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.6	0.5	70	77
Rubber Tired Dozers [2]	85	1	0.6	0.5	70	77
Tractor/Loader/Backhoe [2]	85	1	0.7	0.5	70	78
TOTAL Leq DURING NORMAL OPE	82					dBA
Daytime Ambient without Equipment	72					dBA
Nighttime Ambient without Equipmen	0					dBA
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
<i>Combined Daytime Hourly Leq:</i>	<i>82</i>					<i>dBA</i>
<i>Combined Nighttime Hourly Leq:</i>	<i>0</i>					<i>dBA</i>
ESTIMATED Ldn:	78					dBA
ESTIMATED CNEL:	78					dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Grading

Receptor Location: Single-Family Residential 100 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.6	0.5	100	74
Rubber Tired Dozers [2]	85	1	0.6	0.5	100	74
Tractor/Loader/Backhoe [2]	85	1	0.7	0.5	100	74

TOTAL Leq DURING NORMAL OPE 79 dBA

Daytime Ambient without Equipment 72 dBA

Nighttime Ambient without Equipmen 0 dBA

Daytime Hours Operating: 8

Evening Hours Operating: 0

Nighttime Hours Operating: 0

Combined Daytime Hourly Leq: 80 dBA

Combined Nighttime Hourly Leq: 0 dBA

ESTIMATED Ldn: 75 dBA

ESTIMATED CNEL: 75 dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Grading

Receptor Location: Single-Family Residential 150 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders [3]	85	1	0.6	0.5	150	70
Rubber Tired Dozers [2]	85	1	0.6	0.5	150	70
Tractor/Loader/Backhoe [2]	85	1	0.7	0.5	150	71

TOTAL Leq DURING NORMAL OPE 75 dBA

Daytime Ambient without Equipment 72 dBA

Nighttime Ambient without Equipmen 0 dBA

Daytime Hours Operating: 8

Evening Hours Operating: 0

Nighttime Hours Operating: 0

Combined Daytime Hourly Leq: 77 dBA

Combined Nighttime Hourly Leq: 0 dBA

ESTIMATED Ldn: 73 dBA

ESTIMATED CNEL: 73 dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

2 3 4.5 6
1 1.5 2

Scenario: Buiding Construction

Receptor Location: Single-Family Residential 150 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA		
Cranes [3]	85	1	0.6	0.5	150	70	94868330	10540926
Generators [3]	82	1	0.8	0.5	150	68	63395728	7043969.7
Welders [3]	73	3	0.8	0.5	150	64	23943148	2660349.8
Tractor/Loader/Backhoe[2]	85	1	0.6	0.5	150	70	94868330	10540926

TOTAL Leq DURING NORMAL OF **75** **dBA**

30786171

Daytime Ambient without Equipmer	72	dBA
Nighttime Ambient without Equipme	0	dBA
Daytime Hours Operating:	8	
Evening Hours Operating:	0	
Nighttime Hours Operating:	0	
<i>Combined Daytime Hourly Leq:</i>	77	dBA
<i>Combined Nighttime Hourly Leq:</i>	0	dBA
ESTIMATED Ldn:	73	dBA
ESTIMATED CNEL:	73	dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Equipment Use Source:

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*.

Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Paving
 Receptor Location: Single-Family Residential 25 Feet

2 3 4.5 6
 1 1.5 2

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor	Distance, Ft.	Leq, dBA		
Cement and Mortar Mixers[2]	85	1	0.6	0.5	25	86	94868330	379473319
Pavers[2]	89	1	0.6	0.5	25	90	238298470	953193882
Paving Equipment[3]	85	1	0.8	0.5	25	87	126491106	505964426
Rollers[2]	74	1	0.7	0.5	25	75	8791602.5	35166410
Tractor/Loader/Backhoe[2]	85	1	0.8	0.5	25	87	126491106	505964426

TOTAL Leq DURING NORMAL OF 94 dBA

2.38E+09

Daytime Ambient without Equipmer	72	dBA
Nighttime Ambient without Equipme	0	dBA
Daytime Hours Operating:	8	
Evening Hours Operating:	0	
Nighttime Hours Operating:	0	
Combined Daytime Hourly Leq:	94	dBA
Combined Nighttime Hourly Leq:	0	dBA
ESTIMATED Ldn:	89	dBA
ESTIMATED CNEL:	89	dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Equipment Use Source:

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), Construction Noise Handbook.

Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

Scenario: Paving
 Receptor Location: Multi-Family Residential 70 Feet

2 3 4.5 6
 1 1.5 2

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor	Distance, Ft.	Leq, dBA		
Cement and Mortar Mixers[2]	85	1	0.6	0.5	70	77	94868330	48402209
Pavers[2]	89	1	0.6	0.5	70	81	238298470	121580852
Paving Equipment[3]	85	1	0.8	0.5	70	78	126491106	64536279
Rollers[2]	74	1	0.7	0.5	70	67	8791602.5	4485511.5
Tractor/Loader/Backhoe[2]	85	1	0.8	0.5	70	78	126491106	64536279

TOTAL Leq DURING NORMAL OF 85 dBA

303541130

Daytime Ambient without Equipmen 72 dBA
 Nighttime Ambient without Equipme 0 dBA
 Daytime Hours Operating: 8
 Evening Hours Operating: 0
 Nighttime Hours Operating: 0
 Combined Daytime Hourly Leq: 85 dBA
 Combined Nighttime Hourly Leq: 0 dBA
ESTIMATED Ldn: 80 dBA
ESTIMATED CNEL: 80 dBA

Distance attenuation assumed at: 6 dBA per doubling of distance
 Notes: #N/A = Not Applicable

- * Assumed percentage of time that equipment is operating at near maximum sound level.
- * Equipment type per assumed equipment type and duration

Equipment Use Source:
 [2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment
 [3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*.
 Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/

Heavy Equipment Noise Impact Estimation Non-Potable Connections Project

2 3 4.5 6
1 1.5 2

Scenario: Paving

Receptor Location: Single-Family Residential 100 Feet

Noise Source	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of		Distance, Ft.	Leq, dBA		
			Workday Hours In Use	Effective Use Factor †				
Cement and Mortar Mixers[2]	85	1	0.6	0.5	100	74	94868330	23717082
Pavers[2]	89	1	0.6	0.5	100	78	238298470	59574618
Paving Equipment[3]	85	1	0.8	0.5	100	75	126491106	31622777
Rollers[2]	74	1	0.7	0.5	100	63	8791602.5	2197900.6
Tractor/Loader/Backhoe[2]	85	1	0.8	0.5	100	75	126491106	31622777

TOTAL Leq DURING NORMAL OF 82 dBA

148735154

Daytime Ambient without Equipmer	72	dBA
Nighttime Ambient without Equipme	0	dBA
Daytime Hours Operating:	8	
Evening Hours Operating:	0	
Nighttime Hours Operating:	0	
Combined Daytime Hourly Leq:	82	dBA
Combined Nighttime Hourly Leq:	0	dBA
ESTIMATED Ldn:	78	dBA
ESTIMATED CNEL:	78	dBA

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per assumed equipment type and duration

Equipment Use Source:

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*.

Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/

