

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

Chino Well 11 Pipeline
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	43.50	1000sqft	1.00	43,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
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

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Project Characteristics -

Land Use - 43,500 SF provided by the applicant on construction questionnaire

Construction Phase - Construction timing provided by the applicant on construction questionnaire. Assuming repainting will be needed.

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

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Off-road Equipment - Construcion equipment provided by the applicant on construction questionnaire

Construction Off-road Equipment Mitigation - All construction equipment will be tier 4 per info. provided by the applicant on construction questionnaire. Rule 403 imposed= water x3 and 15 mph speed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	100.00	34.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	9/15/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	9/1/2021	1/17/2022
tblConstructionPhase	PhaseEndDate	9/8/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	4/12/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	9/9/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/15/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	9/2/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/10/2021	11/1/2021
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	13.00

2.0 Emissions Summary

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0191	4.0000e-005	4.4400e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005	0.0000	0.0101

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0191	4.0000e-005	4.4400e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005	0.0000	0.0101

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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation	Trenching	11/1/2021	11/30/2021	5	22	
2	Pipeline Installation & Backfill	Building Construction	12/1/2021	1/17/2022	5	34	
3	Repaving	Paving	1/18/2022	1/31/2022	5	10	
4	Repainting	Architectural Coating	1/18/2022	1/31/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,610 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Repainting	Air Compressors	3	6.00	78	0.48
Repaving	Cement and Mortar Mixers	0	6.00	9	0.56
Excavation	Concrete/Industrial Saws	2	7.00	81	0.73
Pipeline Installation & Backfill	Generator Sets	0	8.00	84	0.74
Pipeline Installation & Backfill	Cranes	0	6.00	231	0.29
Pipeline Installation & Backfill	Forklifts	0	6.00	89	0.20
Excavation	Graders	0	8.00	187	0.41
Repaving	Pavers	0	6.00	130	0.42
Repaving	Rollers	1	7.00	80	0.38
Excavation	Trenchers	1	7.00	78	0.50
Excavation	Dumpers/Tenders	1	7.00	16	0.38
Pipeline Installation & Backfill	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Excavation	Off-Highway Trucks	2	6.00	402	0.38
Pipeline Installation & Backfill	Off-Highway Trucks	4	6.00	402	0.38
Repaving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation & Backfill	Plate Compactors	2	6.00	8	0.43
Repaving	Paving Equipment	1	8.00	132	0.36
Excavation	Rubber Tired Dozers	0	7.00	247	0.40
Pipeline Installation & Backfill	Welders	0	8.00	46	0.45
Pipeline Installation & Backfill	Rollers	1	6.00	80	0.38
Pipeline Installation & Backfill	Graders	1	8.00	187	0.41
Pipeline Installation & Backfill	Rubber Tired Dozers	1	7.00	247	0.40

Trips and VMT

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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
Excavation	8	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation & Backfill	11	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repaving	4	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repainting	3	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation - 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	2.3558	20.4826	18.8566	0.0406		1.0545	1.0545		0.9956	0.9956		3,896.1277	3,896.1277	0.9734		3,920.4615
Total	2.3558	20.4826	18.8566	0.0406		1.0545	1.0545		0.9956	0.9956		3,896.1277	3,896.1277	0.9734		3,920.4615

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3.2 Excavation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
Total	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887

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	0.4641	2.0109	22.5546	0.0406		0.0619	0.0619		0.0619	0.0619	0.0000	3,896.1277	3,896.1277	0.9734		3,920.4615
Total	0.4641	2.0109	22.5546	0.0406		0.0619	0.0619		0.0619	0.0619	0.0000	3,896.1277	3,896.1277	0.9734		3,920.4615

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3.2 Excavation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
Total	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887

3.3 Pipeline Installation & Backfill - 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	3.6694	35.9784	21.2297	0.0611		1.5033	1.5033		1.3842	1.3842		5,894.8221	5,894.8221	1.8952		5,942.2008
Total	3.6694	35.9784	21.2297	0.0611		1.5033	1.5033		1.3842	1.3842		5,894.8221	5,894.8221	1.8952		5,942.2008

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3.3 Pipeline Installation & Backfill - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0181	0.6751	0.1270	1.8900e-003	0.0448	1.1600e-003	0.0460	0.0129	1.1100e-003	0.0140		199.2125	199.2125	0.0126		199.5273
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	0.1096	0.7316	0.8722	3.8700e-003	0.2460	2.4500e-003	0.2485	0.0663	2.3000e-003	0.0686		396.1470	396.1470	0.0182		396.6019

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	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,894.8221	5,894.8221	1.8952		5,942.2008
Total	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,894.8221	5,894.8221	1.8952		5,942.2008

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3.3 Pipeline Installation & Backfill - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0181	0.6751	0.1270	1.8900e-003	0.0448	1.1600e-003	0.0460	0.0129	1.1100e-003	0.0140		199.2125	199.2125	0.0126		199.5273
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	0.1096	0.7316	0.8722	3.8700e-003	0.2460	2.4500e-003	0.2485	0.0663	2.3000e-003	0.0686		396.1470	396.1470	0.0182		396.6019

3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1646	29.1780	20.0001	0.0611		1.1947	1.1947		1.1003	1.1003		5,896.0461	5,896.0461	1.8955		5,943.4347
Total	3.1646	29.1780	20.0001	0.0611		1.1947	1.1947		1.1003	1.1003		5,896.0461	5,896.0461	1.8955		5,943.4347

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3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0169	0.6402	0.1174	1.8700e-003	0.0448	9.7000e-004	0.0458	0.0129	9.3000e-004	0.0138		197.6153	197.6153	0.0122		197.9192
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
Total	0.1023	0.6911	0.8020	3.7800e-003	0.2460	2.2200e-003	0.2483	0.0663	2.0800e-003	0.0684		387.4438	387.4438	0.0172		387.8733

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	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,896.0461	5,896.0461	1.8955		5,943.4347
Total	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,896.0461	5,896.0461	1.8955		5,943.4347

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3.3 Pipeline Installation & Backfill - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0169	0.6402	0.1174	1.8700e-003	0.0448	9.7000e-004	0.0458	0.0129	9.3000e-004	0.0138		197.6153	197.6153	0.0122		197.9192
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
Total	0.1023	0.6911	0.8020	3.7800e-003	0.2460	2.2200e-003	0.2483	0.0663	2.0800e-003	0.0684		387.4438	387.4438	0.0172		387.8733

3.4 Repaving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6532	6.5991	8.6497	0.0126		0.3520	0.3520		0.3239	0.3239		1,219.2871	1,219.2871	0.3943		1,229.1457
Paving	0.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	6.5991	8.6497	0.0126		0.3520	0.3520		0.3239	0.3239		1,219.2871	1,219.2871	0.3943		1,229.1457

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3.4 Repaving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0367	0.4944	1.3800e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		137.0983	137.0983	3.6300e-003		137.1891
Total	0.0617	0.0367	0.4944	1.3800e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		137.0983	137.0983	3.6300e-003		137.1891

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	0.1544	0.6690	9.5210	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,219.2871	1,219.2871	0.3943		1,229.1457
Paving	0.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4164	0.6690	9.5210	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,219.2871	1,219.2871	0.3943		1,229.1457

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

3.4 Repaving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0367	0.4944	1.3800e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		137.0983	137.0983	3.6300e-003		137.1891
Total	0.0617	0.0367	0.4944	1.3800e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		137.0983	137.0983	3.6300e-003		137.1891

3.5 Repainting - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550		845.7185
Total	1.8234	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550		845.7185

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

3.5 Repainting - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0190	0.0113	0.1521	4.2000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		42.1841	42.1841	1.1200e-003		42.2120
Total	0.0190	0.0113	0.1521	4.2000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		42.1841	42.1841	1.1200e-003		42.2120

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					
Archit. Coating	1.2097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0891	0.3863	5.4972	8.9100e-003		0.0119	0.0119		0.0119	0.0119	0.0000	844.3441	844.3441	0.0550		845.7185
Total	1.2989	0.3863	5.4972	8.9100e-003		0.0119	0.0119		0.0119	0.0119	0.0000	844.3441	844.3441	0.0550		845.7185

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

3.5 Repainting - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0190	0.0113	0.1521	4.2000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		42.1841	42.1841	1.1200e-003		42.2120
Total	0.0190	0.0113	0.1521	4.2000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		42.1841	42.1841	1.1200e-003		42.2120

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

	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					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Unmitigated	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Total	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Total	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

7.0 Water Detail

Chino Well 11 Pipeline - San Bernardino-South Coast County, Summer

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

Chino Well 11 Pipeline
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	43.50	1000sqft	1.00	43,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
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

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - 43,500 SF provided by the applicant on construction questionnaire

Construction Phase - Construction timing provided by the applicant on construction questionnaire. Assuming repainting will be needed.

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construcion equipment provided by the applicant on construction questionnaire

Construction Off-road Equipment Mitigation - All construction equipment will be tier 4 per info. provided by the applicant on construction questionnaire. Rule 403 imposed= water x3 and 15 mph speed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	100.00	34.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	9/15/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	9/1/2021	1/17/2022
tblConstructionPhase	PhaseEndDate	9/8/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	4/12/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	9/9/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/15/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	9/2/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/10/2021	11/1/2021
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	13.00

2.0 Emissions Summary

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0191	4.0000e-005	4.4400e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005	0.0000	0.0101

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0191	4.0000e-005	4.4400e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005	0.0000	0.0101

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation	Trenching	11/1/2021	11/30/2021	5	22	
2	Pipeline Installation & Backfill	Building Construction	12/1/2021	1/17/2022	5	34	
3	Repaving	Paving	1/18/2022	1/31/2022	5	10	
4	Repainting	Architectural Coating	1/18/2022	1/31/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,610 (Architectural Coating – sqft)

OffRoad Equipment

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Repainting	Air Compressors	3	6.00	78	0.48
Repaving	Cement and Mortar Mixers	0	6.00	9	0.56
Excavation	Concrete/Industrial Saws	2	7.00	81	0.73
Pipeline Installation & Backfill	Generator Sets	0	8.00	84	0.74
Pipeline Installation & Backfill	Cranes	0	6.00	231	0.29
Pipeline Installation & Backfill	Forklifts	0	6.00	89	0.20
Excavation	Graders	0	8.00	187	0.41
Repaving	Pavers	0	6.00	130	0.42
Repaving	Rollers	1	7.00	80	0.38
Excavation	Trenchers	1	7.00	78	0.50
Excavation	Dumpers/Tenders	1	7.00	16	0.38
Pipeline Installation & Backfill	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Excavation	Off-Highway Trucks	2	6.00	402	0.38
Pipeline Installation & Backfill	Off-Highway Trucks	4	6.00	402	0.38
Repaving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation & Backfill	Plate Compactors	2	6.00	8	0.43
Repaving	Paving Equipment	1	8.00	132	0.36
Excavation	Rubber Tired Dozers	0	7.00	247	0.40
Pipeline Installation & Backfill	Welders	0	8.00	46	0.45
Pipeline Installation & Backfill	Rollers	1	6.00	80	0.38
Pipeline Installation & Backfill	Graders	1	8.00	187	0.41
Pipeline Installation & Backfill	Rubber Tired Dozers	1	7.00	247	0.40

Trips and VMT

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

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
Excavation	8	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation & Backfill	11	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repaving	4	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repainting	3	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation - 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	2.3558	20.4826	18.8566	0.0406		1.0545	1.0545		0.9956	0.9956		3,896.1277	3,896.1277	0.9734		3,920.4615
Total	2.3558	20.4826	18.8566	0.0406		1.0545	1.0545		0.9956	0.9956		3,896.1277	3,896.1277	0.9734		3,920.4615

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.2 Excavation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
Total	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745

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	0.4641	2.0109	22.5546	0.0406		0.0619	0.0619		0.0619	0.0619	0.0000	3,896.1277	3,896.1277	0.9734		3,920.4615
Total	0.4641	2.0109	22.5546	0.0406		0.0619	0.0619		0.0619	0.0619	0.0000	3,896.1277	3,896.1277	0.9734		3,920.4615

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.2 Excavation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
Total	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745

3.3 Pipeline Installation & Backfill - 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	3.6694	35.9784	21.2297	0.0611		1.5033	1.5033		1.3842	1.3842		5,894.8221	5,894.8221	1.8952		5,942.2008
Total	3.6694	35.9784	21.2297	0.0611		1.5033	1.5033		1.3842	1.3842		5,894.8221	5,894.8221	1.8952		5,942.2008

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.3 Pipeline Installation & Backfill - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6679	0.1486	1.8200e-003	0.0448	1.1900e-003	0.0460	0.0129	1.1400e-003	0.0141		191.4746	191.4746	0.0140		191.8234
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	0.1109	0.7273	0.7598	3.5900e-003	0.2460	2.4800e-003	0.2485	0.0663	2.3300e-003	0.0686		368.1442	368.1442	0.0189		368.6160

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	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,894.8221	5,894.8221	1.8952		5,942.2008
Total	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,894.8221	5,894.8221	1.8952		5,942.2008

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.3 Pipeline Installation & Backfill - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6679	0.1486	1.8200e-003	0.0448	1.1900e-003	0.0460	0.0129	1.1400e-003	0.0141		191.4746	191.4746	0.0140		191.8234
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	0.1109	0.7273	0.7598	3.5900e-003	0.2460	2.4800e-003	0.2485	0.0663	2.3300e-003	0.0686		368.1442	368.1442	0.0189		368.6160

3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1646	29.1780	20.0001	0.0611		1.1947	1.1947		1.1003	1.1003		5,896.0461	5,896.0461	1.8955		5,943.4347
Total	3.1646	29.1780	20.0001	0.0611		1.1947	1.1947		1.1003	1.1003		5,896.0461	5,896.0461	1.8955		5,943.4347

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0179	0.6327	0.1379	1.8000e-003	0.0448	1.0000e-003	0.0458	0.0129	9.6000e-004	0.0139		189.8794	189.8794	0.0135		190.2167
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
Total	0.1037	0.6862	0.6985	3.5100e-003	0.2460	2.2500e-003	0.2483	0.0663	2.1100e-003	0.0684		360.1857	360.1857	0.0179		360.6333

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	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,896.0461	5,896.0461	1.8955		5,943.4347
Total	0.7387	3.2009	29.1121	0.0611		0.0985	0.0985		0.0985	0.0985	0.0000	5,896.0461	5,896.0461	1.8955		5,943.4347

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.3 Pipeline Installation & Backfill - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0179	0.6327	0.1379	1.8000e-003	0.0448	1.0000e-003	0.0458	0.0129	9.6000e-004	0.0139		189.8794	189.8794	0.0135		190.2167
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
Total	0.1037	0.6862	0.6985	3.5100e-003	0.2460	2.2500e-003	0.2483	0.0663	2.1100e-003	0.0684		360.1857	360.1857	0.0179		360.6333

3.4 Repaving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6532	6.5991	8.6497	0.0126		0.3520	0.3520		0.3239	0.3239		1,219.2871	1,219.2871	0.3943		1,229.1457
Paving	0.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	6.5991	8.6497	0.0126		0.3520	0.3520		0.3239	0.3239		1,219.2871	1,219.2871	0.3943		1,229.1457

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.4 Repaving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0386	0.4048	1.2300e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		122.9990	122.9990	3.1900e-003		123.0787
Total	0.0620	0.0386	0.4048	1.2300e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		122.9990	122.9990	3.1900e-003		123.0787

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	0.1544	0.6690	9.5210	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,219.2871	1,219.2871	0.3943		1,229.1457
Paving	0.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4164	0.6690	9.5210	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,219.2871	1,219.2871	0.3943		1,229.1457

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.4 Repaving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0386	0.4048	1.2300e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		122.9990	122.9990	3.1900e-003		123.0787
Total	0.0620	0.0386	0.4048	1.2300e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		122.9990	122.9990	3.1900e-003		123.0787

3.5 Repainting - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.2097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550		845.7185
Total	1.8234	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550		845.7185

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.5 Repainting - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0191	0.0119	0.1246	3.8000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		37.8458	37.8458	9.8000e-004		37.8704
Total	0.0191	0.0119	0.1246	3.8000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		37.8458	37.8458	9.8000e-004		37.8704

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					
Archit. Coating	1.2097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0891	0.3863	5.4972	8.9100e-003		0.0119	0.0119		0.0119	0.0119	0.0000	844.3441	844.3441	0.0550		845.7185
Total	1.2989	0.3863	5.4972	8.9100e-003		0.0119	0.0119		0.0119	0.0119	0.0000	844.3441	844.3441	0.0550		845.7185

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

3.5 Repainting - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0191	0.0119	0.1246	3.8000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		37.8458	37.8458	9.8000e-004		37.8704
Total	0.0191	0.0119	0.1246	3.8000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		37.8458	37.8458	9.8000e-004		37.8704

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

	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					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Unmitigated	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Total	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101
Total	0.0191	4.0000e-005	4.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.5200e-003	9.5200e-003	2.0000e-005		0.0101

7.0 Water Detail

Chino Well 11 Pipeline - San Bernardino-South Coast County, Winter

7.1 Mitigation Measures Water**8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

DATA, EQUIPMENT AND TIME ESTIMATE – General Information

Project: Chino Well 11 Pipeline

Source: Project Proponent

Land Use Type	Units/ SF
Trenching	43,500

Building Demolition

Tons of Demolished Material	
-----------------------------	--

OR

Building Square Footage	
-------------------------	--

Earthwork

Total Cut (cubic yards)	9,700
Total Fill (cubic yards)	9,700

Start Dates (For One Phase Projects)

Construction Activity	(Month/ Year)	Duration (Months)
Demolition (if applicable)		
Site Preparation		
Grading		
Construction	11/1/2021	2/1/2022
Paving		
Painting		

Construction Equipment- Pipeline

Equipment	# of Units	Model Year
Bore/Drill Rigs		
Concrete/Industrial Saws	2	Tier 4
Crane		
Crawler Tractors		
Crushing/Processing Equip.		
Excavators		
Graders		
Off-Highway Tractors		
Off-Highway Trucks		
Other Equipment	7	Tier 4
Pavers		
Paving Equipment		
Pile Drivers		
Rollers	1	Tier 4
Rough Terrain Forklifts		
Rubber Tired Dozers		
Rubber Tired Loaders		
Scrapers		
Signal Boards		
Skid Steer Loaders		
Surfacing Equipment		
Tractors/Loaders/Backhoes	2	Tier 4
Trenchers	1	Tier 4
Water Trucks	1	Tier 4
Dump Trucks	1	Tier 4
Semi Tractor	1	Tier 4
Light Duty P/U's		
Concrete Truck	1	Tier 4

Trailers (2), Air Compressors (3), Jumping Jack (2),

**Proposed Project
Total Construction-Related
Gasoline Usage**

Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²	Total Gallons of Fuel Consumed
Project Construction	106	106000	10.15	10,443
	Per CalEEMod Output Files.	Per Climate Registry Equation 13e	Per Climate Registry Equation 13e	

Total Gallons Consumed During Project Construction 2021: 10,443

Notes:

Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.

Sources:

¹ECORP Consulting, 2021.

²Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²	Total Gallons of Fuel Consumed
Project Construction	42	42000	10.15	4,138
	Per CalEEMod Output Files.	Per Climate Registry Equation 13e	Per Climate Registry Equation 13e	

Total Gallons Consumed During Project Construction 2022: 4,138

Notes:

Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.

Sources:

¹ECORP Consulting, 2021.

²Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

Chino Well 11 Pipeline
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	43.50	1000sqft	1.00	43,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
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

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - 43,500 SF provided by the applicant on construction questionnaire

Construction Phase - Construction timing provided by the applicant on construction questionnaire. Assuming repainting will be needed.

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construction equipment provided by the applicant on construction questionnaire

Off-road Equipment - Construcion equipment provided by the applicant on construction questionnaire

Construction Off-road Equipment Mitigation - All construction equipment will be tier 4 per info. provided by the applicant on construction questionnaire. Rule 403 imposed= water x3 and 15 mph speed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	100.00	34.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	9/15/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	9/1/2021	1/17/2022
tblConstructionPhase	PhaseEndDate	9/8/2021	1/31/2022
tblConstructionPhase	PhaseEndDate	4/12/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	9/9/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/15/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	9/2/2021	1/18/2022
tblConstructionPhase	PhaseStartDate	4/10/2021	11/1/2021
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	13.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	9-29-2021	12-28-2021	0.6503	0.0750
4	12-29-2021	3-28-2022	0.3130	0.0483
		Highest	0.6503	0.0750

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4700e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4700e-003	1.0000e-005	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4700e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4700e-003	1.0000e-005	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation	Trenching	11/1/2021	11/30/2021	5	22	
2	Pipeline Installation & Backfill	Building Construction	12/1/2021	1/17/2022	5	34	
3	Repaving	Paving	1/18/2022	1/31/2022	5	10	
4	Repainting	Architectural Coating	1/18/2022	1/31/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,610 (Architectural Coating – sqft)

OffRoad Equipment

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Repainting	Air Compressors	3	6.00	78	0.48
Repaving	Cement and Mortar Mixers	0	6.00	9	0.56
Excavation	Concrete/Industrial Saws	2	7.00	81	0.73
Pipeline Installation & Backfill	Generator Sets	0	8.00	84	0.74
Pipeline Installation & Backfill	Cranes	0	6.00	231	0.29
Pipeline Installation & Backfill	Forklifts	0	6.00	89	0.20
Excavation	Graders	0	8.00	187	0.41
Repaving	Pavers	0	6.00	130	0.42
Repaving	Rollers	1	7.00	80	0.38
Excavation	Trenchers	1	7.00	78	0.50
Excavation	Dumpers/Tenders	1	7.00	16	0.38
Pipeline Installation & Backfill	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Excavation	Off-Highway Trucks	2	6.00	402	0.38
Pipeline Installation & Backfill	Off-Highway Trucks	4	6.00	402	0.38
Repaving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation & Backfill	Plate Compactors	2	6.00	8	0.43
Repaving	Paving Equipment	1	8.00	132	0.36
Excavation	Rubber Tired Dozers	0	7.00	247	0.40
Pipeline Installation & Backfill	Welders	0	8.00	46	0.45
Pipeline Installation & Backfill	Rollers	1	6.00	80	0.38
Pipeline Installation & Backfill	Graders	1	8.00	187	0.41
Pipeline Installation & Backfill	Rubber Tired Dozers	1	7.00	247	0.40

Trips and VMT

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

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
Excavation	8	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation & Backfill	11	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repaving	4	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Repainting	3	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0259	0.2253	0.2074	4.5000e-004		0.0116	0.0116		0.0110	0.0110	0.0000	38.8796	38.8796	9.7100e-003	0.0000	39.1224
Total	0.0259	0.2253	0.2074	4.5000e-004		0.0116	0.0116		0.0110	0.0110	0.0000	38.8796	38.8796	9.7100e-003	0.0000	39.1224

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3.2 Excavation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.1000e-004	3.1400e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8007	0.8007	2.0000e-005	0.0000	0.8013
Total	4.1000e-004	3.1000e-004	3.1400e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8007	0.8007	2.0000e-005	0.0000	0.8013

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	5.1000e-003	0.0221	0.2481	4.5000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	38.8795	38.8795	9.7100e-003	0.0000	39.1224
Total	5.1000e-003	0.0221	0.2481	4.5000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	38.8795	38.8795	9.7100e-003	0.0000	39.1224

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3.2 Excavation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.1000e-004	3.1400e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8007	0.8007	2.0000e-005	0.0000	0.8013
Total	4.1000e-004	3.1000e-004	3.1400e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8007	0.8007	2.0000e-005	0.0000	0.8013

3.3 Pipeline Installation & Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0422	0.4138	0.2441	7.0000e-004		0.0173	0.0173		0.0159	0.0159	0.0000	61.4985	61.4985	0.0198	0.0000	61.9928
Total	0.0422	0.4138	0.2441	7.0000e-004		0.0173	0.0173		0.0159	0.0159	0.0000	61.4985	61.4985	0.0198	0.0000	61.9928

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3.3 Pipeline Installation & Backfill - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.8300e-003	1.5900e-003	2.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.0444	2.0444	1.4000e-004	0.0000	2.0479
Worker	9.5000e-004	7.2000e-004	7.3800e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.8835	1.8835	5.0000e-005	0.0000	1.8848
Total	1.1600e-003	8.5500e-003	8.9700e-003	4.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	3.9279	3.9279	1.9000e-004	0.0000	3.9327

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	8.4900e-003	0.0368	0.3348	7.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	61.4984	61.4984	0.0198	0.0000	61.9927
Total	8.4900e-003	0.0368	0.3348	7.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	61.4984	61.4984	0.0198	0.0000	61.9927

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3.3 Pipeline Installation & Backfill - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.8300e-003	1.5900e-003	2.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.0444	2.0444	1.4000e-004	0.0000	2.0479
Worker	9.5000e-004	7.2000e-004	7.3800e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.8835	1.8835	5.0000e-005	0.0000	1.8848
Total	1.1600e-003	8.5500e-003	8.9700e-003	4.0000e-005	2.7800e-003	2.0000e-005	2.8000e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	3.9279	3.9279	1.9000e-004	0.0000	3.9327

3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0174	0.1605	0.1100	3.4000e-004		6.5700e-003	6.5700e-003		6.0500e-003	6.0500e-003	0.0000	29.4184	29.4184	9.4600e-003	0.0000	29.6549
Total	0.0174	0.1605	0.1100	3.4000e-004		6.5700e-003	6.5700e-003		6.0500e-003	6.0500e-003	0.0000	29.4184	29.4184	9.4600e-003	0.0000	29.6549

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3.3 Pipeline Installation & Backfill - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.5500e-003	7.1000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9698	0.9698	6.0000e-005	0.0000	0.9714
Worker	4.3000e-004	3.1000e-004	3.2300e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8683	0.8683	2.0000e-005	0.0000	0.8689
Total	5.3000e-004	3.8600e-003	3.9400e-003	2.0000e-005	1.3300e-003	2.0000e-005	1.3400e-003	3.6000e-004	2.0000e-005	3.7000e-004	0.0000	1.8381	1.8381	8.0000e-005	0.0000	1.8403

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	4.0600e-003	0.0176	0.1601	3.4000e-004		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	29.4184	29.4184	9.4600e-003	0.0000	29.6548
Total	4.0600e-003	0.0176	0.1601	3.4000e-004		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	29.4184	29.4184	9.4600e-003	0.0000	29.6548

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3.3 Pipeline Installation & Backfill - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.5500e-003	7.1000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9698	0.9698	6.0000e-005	0.0000	0.9714
Worker	4.3000e-004	3.1000e-004	3.2300e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8683	0.8683	2.0000e-005	0.0000	0.8689
Total	5.3000e-004	3.8600e-003	3.9400e-003	2.0000e-005	1.3300e-003	2.0000e-005	1.3400e-003	3.6000e-004	2.0000e-005	3.7000e-004	0.0000	1.8381	1.8381	8.0000e-005	0.0000	1.8403

3.4 Repaving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2700e-003	0.0330	0.0433	6.0000e-005		1.7600e-003	1.7600e-003		1.6200e-003	1.6200e-003	0.0000	5.5306	5.5306	1.7900e-003	0.0000	5.5753
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.5800e-003	0.0330	0.0433	6.0000e-005		1.7600e-003	1.7600e-003		1.6200e-003	1.6200e-003	0.0000	5.5306	5.5306	1.7900e-003	0.0000	5.5753

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3.4 Repaving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.1200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5701	0.5701	1.0000e-005	0.0000	0.5705
Total	2.8000e-004	2.0000e-004	2.1200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5701	0.5701	1.0000e-005	0.0000	0.5705

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	7.7000e-004	3.3500e-003	0.0476	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.5306	5.5306	1.7900e-003	0.0000	5.5753
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0800e-003	3.3500e-003	0.0476	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.5306	5.5306	1.7900e-003	0.0000	5.5753

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3.4 Repaving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.1200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5701	0.5701	1.0000e-005	0.0000	0.5705
Total	2.8000e-004	2.0000e-004	2.1200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5701	0.5701	1.0000e-005	0.0000	0.5705

3.5 Repainting - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
Total	9.1200e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361

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3.5 Repainting - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1754	0.1754	0.0000	0.0000	0.1755
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1754	0.1754	0.0000	0.0000	0.1755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	1.9300e-003	0.0275	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
Total	6.5000e-003	1.9300e-003	0.0275	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361

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3.5 Repainting - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1754	0.1754	0.0000	0.0000	0.1755
Total	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1754	0.1754	0.0000	0.0000	0.1755

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4700e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003
Unmitigated	3.4700e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003
Total	3.4600e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003
Total	3.4600e-003	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0800e-003	1.0800e-003	0.0000	0.0000	1.1500e-003

7.0 Water Detail

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Chino Well 11 Pipeline - San Bernardino-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

DATA, EQUIPMENT AND TIME ESTIMATE – General Information

Project: Chino Well 11 Pipeline

Source: Project Proponent

Land Use Type	Units/ SF
Trenching	43,500

Building Demolition

Tons of Demolished Material	
-----------------------------	--

OR

Building Square Footage	
-------------------------	--

Earthwork

Total Cut (cubic yards)	9,700
Total Fill (cubic yards)	9,700

Start Dates (For One Phase Projects)

Construction Activity	(Month/ Year)	Duration (Months)
Demolition (if applicable)		
Site Preparation		
Grading		
Construction	11/1/2021	2/1/2022
Paving		
Painting		

Construction Equipment- Pipeline

Equipment	# of Units	Model Year
Bore/Drill Rigs		
Concrete/Industrial Saws	2	Tier 4
Crane		
Crawler Tractors		
Crushing/Processing Equip.		
Excavators		
Graders		
Off-Highway Tractors		
Off-Highway Trucks		
Other Equipment	7	Tier 4
Pavers		
Paving Equipment		
Pile Drivers		
Rollers	1	Tier 4
Rough Terrain Forklifts		
Rubber Tired Dozers		
Rubber Tired Loaders		
Scrapers		
Signal Boards		
Skid Steer Loaders		
Surfacing Equipment		
Tractors/Loaders/Backhoes	2	Tier 4
Trenchers	1	Tier 4
Water Trucks	1	Tier 4
Dump Trucks	1	Tier 4
Semi Tractor	1	Tier 4
Light Duty P/U's		
Concrete Truck	1	Tier 4

Trailers (2), Air Compressors (3), Jumping Jack (2),

Roadway Construction Noise Model (RCNM),Version 1

Report date: 4/2/2021
Case Description: Excavation

Description **Affected Land Use**
 Excavation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete/Industrial Saws	No	20		89.6	20
Concrete/Industrial Saws	No	20		89.6	20
Trenchers	No	20		79.1	20
Trenchers	No	20		79.1	20
Off-Highway Trucks	No	40		74.3	20
Off-Highway Trucks	No	40		74.3	20
Tractors/Loaders/Backhoes	No	40	84		20
Tractors/Loaders/Backhoes	No	40	84		20
Dump Truck	No	40		76.5	20

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete/Industrial Saws	97.5	90.5
Concrete/Industrial Saws	97.5	90.5
Trenchers	87.1	80.1
Trenchers	87.1	80.1
Off-Highway Trucks	82.2	78.2
Off-Highway Trucks	82.2	78.2

Tractors/Loaders/Backhoes	92	88
Tractors/Loaders/Backhoes	92	88
Dump Truck	84.4	80.4
Total	97.5	96

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1

Report date: 4/2/2021
Case Description: Pipeline Installation & Backfill

Description Pipeline Installation & Backfill
Affected Land Use Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Off-Highway Trucks	No	40		74.3	20
Off-Highway Trucks	No	40		74.3	20
Compactor (ground)	No	20		83.2	20
Compactor (ground)	No	20		83.2	20
Roller	No	20		80	20
Tractors/Loaders/Backhoes	No	40	84		20
Tractors/Loaders/Backhoes	No	40	84		20
Dump Truck	No	40		76.5	20
Semi-Tractor	No	40	84		20
Water Truck	No	20		92.1	20

Calculated (dBA)

Equipment	*Lmax	Leq
Off-Highway Trucks	82.2	78.2
Off-Highway Trucks	82.2	78.2
Compactor (ground)	91.2	84.2
Compactor (ground)	91.2	84.2
Roller	88	81

Tractors/Loaders/Backhoes	92	88
Tractors/Loaders/Backhoes	92	88
Dump Truck	84.4	80.4
Semi-Tractor	92	88
Water Truck	100.1	93.1
Total	100.1	96.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2021
 Case Description: Repaving & Repainting

Description Affected Land Use
 Repaving & Repainting Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete Mixer Truck	No	40		78.8	20
Tractors/Loaders/Backhoes	No	40	84		20
Roller	No	20		80	20
Compressor (air)	No	40		77.7	20
Compressor (air)	No	40		77.7	20
Compressor (air)	No	40		77.7	20

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	86.8	82.8
Tractors/Loaders/Backhoes	92	88
Roller	88	81
Compressor (air)	85.6	81.6
Compressor (air)	85.6	81.6
Compressor (air)	85.6	81.6
Total	92	91.4

*Calculated Lmax is the Loudest value.

TRAFFIC NOISE LEVELS

Project Number: 2020-177
 Project Name: Chino Well

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): X
 Source of Traffic Volumes: X
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor'	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) L_{eq}	24-Hour dB(A) CNEL
										Medium Trucks	Heavy Trucks		
Highway 60 Between Mountain Avenue and JCT. 83	Residential	10	0	0	224,000	35	100	0	0	1.8%	0.7%	0.0	76.0

NATIVE AMERICAN HERITAGE COMMISSION

October 6, 2021

Natalie Avila
City of Chino

Via Email to: nabila@cityofchino.org

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, MA211 Well 11 Pipeline Project, San Bernardino County

Dear Ms. Avila:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:



CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[Vacant]

COMMISSIONER
[Vacant]

COMMISSIONER
[Vacant]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

- Any report that may contain site forms, site significance, and suggested mitigation measures.

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,



Andrew Green
Cultural Resources Analyst

Attachment

**Native American Heritage Commission
Tribal Consultation List
San Bernardino County
10/6/2021**

**Gabrieleno Band of Mission
Indians - Kizh Nation**

Andrew Salas, Chairperson
P.O. Box 393 Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

**Gabrieleno/Tongva San Gabriel
Band of Mission Indians**

Anthony Morales, Chairperson
P.O. Box 693 Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTtribalcouncil@aol.com

Gabrielino /Tongva Nation

Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., Gabrielino
#231
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

**Gabrielino Tongva Indians of
California Tribal Council**

Robert Dorame, Chairperson
P.O. Box 490 Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

**Gabrielino Tongva Indians of
California Tribal Council**

Christina Conley, Tribal
Consultant and Administrator
P.O. Box 941078 Gabrielino
Simi Valley, CA, 93094
Phone: (626) 407 - 8761
christina.marsden@alumni.usc.edu

Gabrielino-Tongva Tribe

Charles Alvarez,
23454 Vanowen Street Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

**Quechan Tribe of the Fort Yuma
Reservation**

Jill McCormick, Historic
Preservation Officer
P.O. Box 1899 Quechan
Yuma, AZ, 85366
Phone: (760) 572 - 2423
historicpreservation@quechantribe.com

**Santa Rosa Band of Cahuilla
Indians**

Lovina Redner, Tribal Chair
P.O. Box 391820 Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
Isaul@santarosa-nsn.gov

**Soboba Band of Luiseno
Indians**

Isaiah Vivanco, Chairperson
P. O. Box 487 Cahuilla
San Jacinto, CA, 92581 Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

This list is current only as of the date of this document. 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 Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed MA211 Well 11 Pipeline Project, San Bernardino County.

EUNICE M. ULLOA
Mayor



KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

September 20, 2021

VIA CERTIFIED MAIL – RETURN SERVICE REQUESTED

Andrew Salas, Chairman
Gabrieleno Band of Mission Indians-Kizh Nation
P.O. Box 393
Covina, CA 91723

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Gabrieleno Band of Mission Indians-Kizh Nation

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Gabrieleno Band of Mission Indians-Kizh Nation. As requested by the Gabrieleno Band of Mission Indians-Kizh Nation, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering a minimum 4' depth of existing Well 11 site, linear feet (LF) at a existing roads from the the ETWF.

Project Location

The subject Well 11 Bernardino County ir (SR) 60 Freeway.

which is located in San south of the State Route



7019 2970 0000 3338 7438

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	Andrew Salas	
Street and Apt. No., or PO Box No.		
City, State, ZIP+4®		

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Thursday, October 28, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*

USPS TRACKING #



9590 9402 5842 0038 9752 96



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Postal Service

* Sender: Please print your name, address, and ZIP+4® in this box*



City of Chino
13220 Central Ave.
Chino, CA 91710



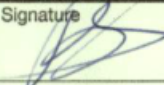
SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Andrew Salas, Chairman
Gabrieleno Band of Mission Indians-Kizh Nation
P.O. Box 393
Covina, CA 91723

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) C. Date of Delivery
9/23/14
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No



9590 9402 5842 0038 9752 96

2. Article Number (Transfer from previous label)

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EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL: sgoad@gabrielino-tongva.com

Sandonne Goad, Chairperson
Gabrieleño/Tongva Nation
106 1/2 Judge John Aiso Street, #231
Los Angeles, CA, 90012

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Gabrieleño/Tongva Nation

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Gabrieleño/Tongva Nation. As requested by the Gabrieleño/Tongva Nation, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Monday, November 8, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*



The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Thursday, October 28, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*

USPS TRACKING #



9590 9402 5842 0038 9752 72

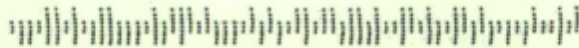
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City of Chino
13220 Central Ave.
Chino, CA 91710



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Anthony Morales, Chief
Gabrieleño/Tongva San Gabriel Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1? Yes
- If YES, enter delivery address below: No



9590 9402 5842 0038 9752 72

2. Article Number (Transfer from service label)

7019 2970 0000 3338 7452

3. Service Type
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 - Adult Signature Restricted Delivery
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 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery



EUNICE M. ULLOA
Mayor

MARC LUCIO
Mayor Pro Tem

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCKOCK
Council Members

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL – christina.marsden@alumni.usc.edu

Christina Conley, Tribal Consultant and Administrator
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 941078
Simi Valley, CA, 93094

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Gabrielino Tongva Indians of California Tribal Council

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Gabrielino Tongva Indians of California Tribal Council. As requested by the Gabrielino Tongva Indians of California Tribal Council, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway.

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Thursday, October 28, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,

Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*





EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL

Robert Dorame, Chairperson
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, CA, 90707
qtongva@gmail.com

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Gabrielino Tongva Indians of California Tribal Council

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Gabrielino Tongva Indians of California Tribal Council. As requested by the Gabrielino Tongva Indians of California Tribal Council, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway.

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Monday, November 8, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*





EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL: roadkingcharles@aol.com

Charles Alvarez, Chairperson
Gabrielino-Tongva Tribe
23454 Vanowen Street
West Hills, CA, 91307

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Gabrielino-Tongva Tribe

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Gabrielino-Tongva Tribe. As requested by the Gabrielino-Tongva Tribe, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Monday, November 8, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,

Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*



EUNICE M. ULLOA
Mayor



KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

September 20, 2021

VIA CERTIFIED MAIL – RETURN SERVICE REQUESTED

Travis Armstrong, Tribal Historic Preservation Officer
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Morongo Band of Mission Indians

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Morongo Band of Mission Indians. As requested by the Morongo Band of Mission Indians, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering design and installation of approximately 2,000 linear feet (LF) at a minimum 4' depth of cover along existing roads from the existing Well 11 site, joining the EWTF.

Project Location

The subject Well 11 site is located in San Bernardino County in the eastern portion of the State Route (SR) 60 Freeway.

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	Travis Armstrong	
Street and Apt. No., or PO Box No.		
City, State, ZIP+4®		



The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Thursday, October 28, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*

USPS TRACKING #



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City of Chino
13220 Central Ave.
Chino, CA 91710

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:

Travis Armstrong, Tribal Historic Preservation Officer
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X LEACIA

- Agent
- Addressee

B. Received by (Printed Name)

McDonnell

C. Date of Delivery

9/23

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No



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2. Article Number (Transfer from service label)

7019 2970 0000 3338 7407

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery



EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL: historicpreservation@quechantribe.com

Jill McCormick, Historic Preservation Officer
Quechan Tribe of the Fort Yuma Reservation
P.O. Box 1899
Yuma, AZ, 85366

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Quechan Tribe of the Fort Yuma Reservation

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Quechan Tribe of the Fort Yuma Reservation. As requested by the Quechan Tribe of the Fort Yuma Reservation, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway. The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Monday, November 8, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*





EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

October 6, 2021

VIA EMAIL: Isaul@santarosa-nsn.gov

Lovina Redner, Tribal Chair
Santa Rosa Band of Cahuilla Indians
P.O. Box 391820
Anza, CA, 92539

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Santa Rosa Band of Cahuilla Indians

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Santa Rosa Band of Cahuilla Indians. As requested by the Santa Rosa Band of Cahuilla Indians, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTF) for treatment. The Project consists of engineering, design, and installation of approximately 8,300 linear feet (LF) at a minimum 4' depth of cover for the 16-inch raw water transmission pipe in existing roads from the existing Well 11 site, joining an existing 18" raw water transmission pipe at the ETWF.

Project Location

The subject Well 11 site is addressed at 12301 San Antonio Avenue, which is located in San Bernardino County in the City of Chino, west of San Antonio Avenue and south of the State Route (SR) 60 Freeway.



13220 Central Avenue, Chino, California 91710 Mailing Address: P.O.
Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Monday, November 8, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*



EUNICE M. ULLOA
Mayor



KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MARC LUCIO
Mayor Pro Tem

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

September 20, 2021

VIA CERTIFIED MAIL – RETURN SERVICE REQUESTED

Isaiah Vivanco, Chairperson
Soboba Band of Luiseño Indians
P.O. Box 487
San Jacinto, CA 92581

RE: Formal Notification of a Proposed Project within the geographic area that is traditionally and culturally affiliated with the Soboba Band of Luiseño Indians

Pursuant to Public Resources Code § 21080.3(b), Assembly Bill 52, this letter provides formal notification of the proposed "Well 11 Pipeline Alignment Project" (herein, "Project"), which is located within the geographic area that is traditionally and culturally affiliated with the Soboba Band of Luiseño Indians. As requested by the Soboba Band of Luiseño Indians, this notice includes:

- A description of the proposed project;
- The project's location;
- The lead agency contact information; and
- A clear and definitive statement that the tribe has 30 day to request consultation.

If this box is checked, a separate notice under Senate Bill 18 has also been sent to you for this project.

Project Description

The City of Chino proposes to install a new 16" raw water transmission pipeline which would convey groundwater from the City's Well 11 to the City's Eastside Water Treatment Facility to remove 1,2,3 trichloropropane (TCP) and nitrate from the groundwater. The 16" pipe is intended to convey the raw water to the Eastside Water Treatment Plant (EWTP) for treatment. The Project consists of engineering, design, and installation of a 16" diameter pipe with a minimum 4' depth of cover, existing Well 11 site, joining the pipe to the Eastside Water Treatment Plant (EWTP) located in San Bernardino County, California, State Route 60 Freeway. The Project consists of engineering, design, and installation of a 16" diameter pipe with a minimum 4' depth of cover, existing Well 11 site, joining the pipe to the Eastside Water Treatment Plant (EWTP) located in San Bernardino County, California, State Route 60 Freeway. The Project consists of engineering, design, and installation of a 16" diameter pipe with a minimum 4' depth of cover, existing Well 11 site, joining the pipe to the Eastside Water Treatment Plant (EWTP) located in San Bernardino County, California, State Route 60 Freeway.

Project Location

The subject Well 11 site is located in San Bernardino County in the City of Chino, California, State Route (SR) 60 Freeway.



7019 2970 0000 3338 7414

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located in San Bernardino County, California, State Route 60 Freeway.

The pipeline alignment is generally from the Well 11 site, east to San Antonio Avenue, south on San Antonio Avenue to Walnut Avenue, west on Walnut Avenue to Cypress Avenue, south on Cypress Avenue to Chino Avenue to tie into an existing pipeline at the intersection of Chino Avenue and Cypress Avenue which continues to the Eastside Water Treatment Facility (EWTF) located at 7537 Schaefer Avenue, Ontario, CA. The Project site remains in the prism of the existing roadway rights-of-way.

Request for Consultation

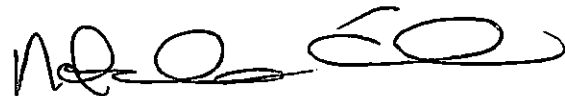
If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, please provide a written request for consultation to the address below or via email on or before Thursday, October 28, 2021 (within 30 days of receipt of this notice) and include the name of a designated lead contact person.

City of Chino
c/o Natalie Ávila
13220 Central Avenue
Chino, CA 91710

Email: Natalie Ávila (navila@cityofchino.org)

The City of Chino, as the Lead Agency for the Project, appreciates your conscientious involvement in the AB 52 and CEQA processes. If you should have any questions or if the City of Chino can otherwise be of assistance, please contact me by phone at (909) 334-3406 or by email at navila@cityofchino.org.

Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*

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City of Chino
13220 Central Ave.
Chino, CA 91710

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X *Billy Bortie* Agent
 Addressee

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Billy Bortie

C. Date of Delivery

9/23/11

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Sincerely,



Natalie Ávila
Associate Engineer

Attachment: *Project Location Map*

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Michael Miralez, Cultural Resource Coordinator
 Torres Martinez Desert Cahuilla Indians
 PO Box 1160
 Thermal, CA 92274



9590 9402 5842 0038 9752 89

2. Article Number (Transfer from service label)

7019 2970 0000 3338 7445

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X

[Handwritten Signature]
[Handwritten Name: Jones]

- Agent
- Addressee

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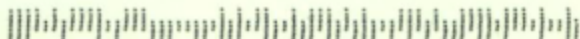
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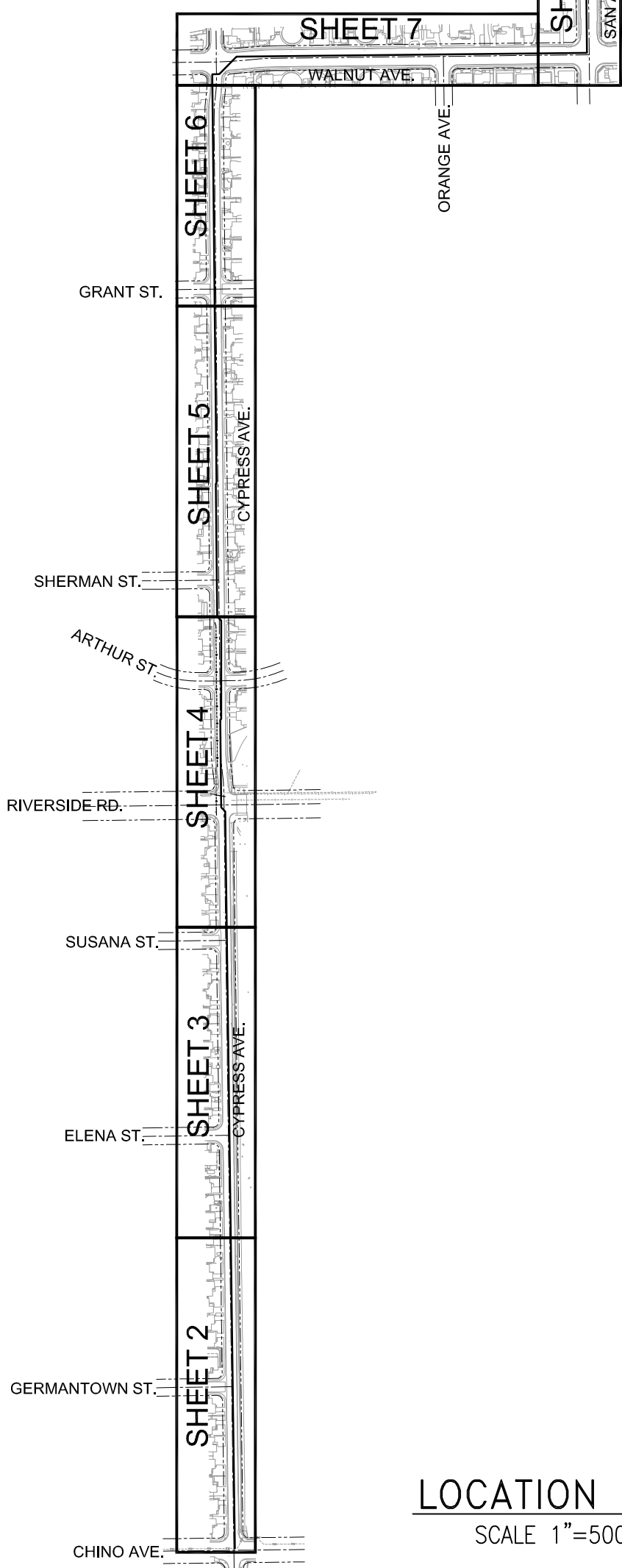
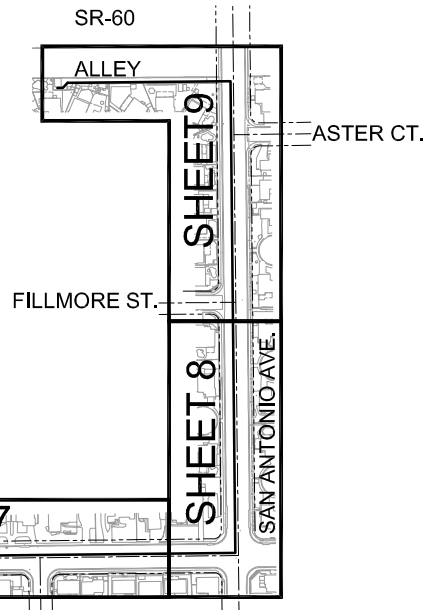
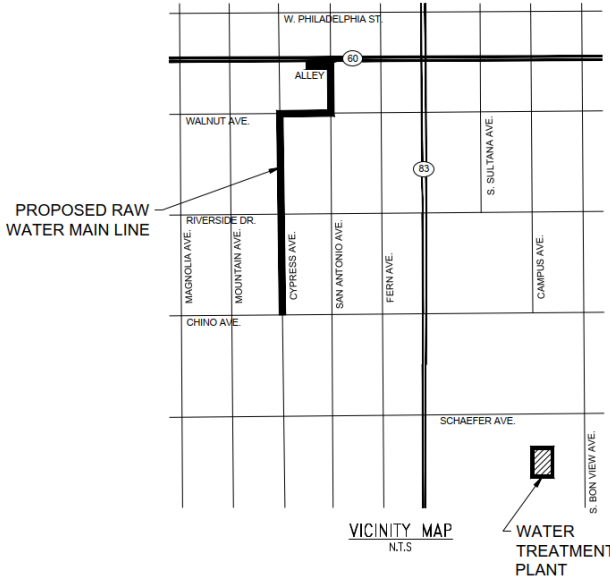
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City of Chino
 13220 Central Ave.
 Chino, CA 91710





LOCATION MAP
SCALE 1"=500'

CITY OF CHINO

WELL 11 RAW WATER IMPROVEMENT PLAN

CYPRESS AVENUE - BETWEEN CHINO AVENUE AND WALNUT AVENUE
 WALNUT AVENUE - BETWEEN CYPRESS AVENUE AND SAN ANTONIO AVENUE
 SAN ANTONIO AVENUE - BETWEEN WALNUT AVENUE AND STATE ROUTE 60

MITIGATION MONITORING AND REPORTING PROGRAM

1. Mitigation Monitoring and Reporting Requirements

Public Resources Code (PRC) Section 21081.6 (enacted by the passage of Assembly Bill [AB] 3180) mandates that the following requirements shall apply to all reporting or mitigation monitoring programs:

- The public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation. For those changes which have been required or incorporated into the project at the request of a Responsible Agency or a public agency having jurisdiction by law over natural resources affected by the project, that agency shall, if so requested by the Lead Agency or a Responsible Agency, prepare and submit a proposed reporting or monitoring program.
- The Lead Agency shall specify the location and custodian of the documents or other material, which constitute the record of proceedings upon which its decision is based. A public agency shall provide the measures to mitigate or avoid significant effects on the environment that are fully enforceable through permit conditions, agreements, or other measures. Conditions of project approval may be set forth in referenced documents which address required mitigation measures or in the case of the adoption of a plan, policy, regulation, or other project, by incorporating the mitigation measures into the plan, policy, regulation, or project design.
- Prior to the close of the public review period for a draft Environmental Impact Report (EIR) or Mitigated Negative Declaration (MND), a Responsible Agency, or a public agency having jurisdiction over natural resources affected by the project, shall either submit to the Lead Agency complete and detailed performance objectives for mitigation measures which would address the significant effects on the environment identified by the Responsible Agency or agency having jurisdiction over natural resources affected by the project, or refer the Lead Agency to appropriate, readily available guidelines or reference documents. Any mitigation measures submitted to a Lead Agency by a Responsible Agency or an agency having jurisdiction over natural resources affected by the project shall be limited to measures that mitigate impacts to resources, which are subject to the statutory authority of, and definitions applicable to, that agency. Compliance or noncompliance by a Responsible Agency or agency having jurisdiction over natural resources affected by a project with that requirement shall not limit that authority of the Responsible Agency or agency having jurisdiction over natural resources affected by a project, or the authority of the Lead Agency, to approve, condition, or deny projects as provided by this division or any other provision of law.

2. Mitigation Monitoring and Reporting Procedures

The Mitigation Monitoring and Reporting Program (MMRP) has been prepared in compliance with PRC Section 21081.6. It describes the requirements and procedures to be followed by the City of Chino to ensure that all mitigation measures adopted as part of the Proposed Project will be carried out as described in the Draft IS/MND. Table 1 lists each of the mitigation measures specified in the Draft IS/MND and identifies the party or parties responsible for implementation and monitoring of each measure.

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

**Table 1. Well 11 Pipeline Alignment Project
Mitigation Monitoring and Reporting Program**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
1. Aesthetics			
The Proposed Project would not result in significant adverse impacts related to aesthetics. No mitigation would be required.	N/A	N/A	N/A
2. Agricultural and Forestry Resources			
The Proposed Project would not result in significant adverse impacts related to agriculture and forestry resources. No mitigation would be required.	N/A	N/A	N/A
3. Air Quality			
The Proposed Project would not result in significant adverse impacts related to air quality. No mitigation would be required.	N/A	N/A	N/A
4. Biological Resources			
The Proposed Project would not result in significant adverse impacts related to biological resources. No mitigation would be required.	N/A	N/A	N/A
5. Cultural Resources			
CUL-1: Post-Review Discovery Procedures: If subsurface deposits believed to be cultural or human in origin are discovered during construction, all work must halt within a 100-foot radius of the discovery. A qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for pre-contact and historic archaeologist, shall be retained to evaluate the significance of the find, and shall have the authority to modify the no-work radius as appropriate, using	Director of Public Works	During all ground disturbing construction activities.	Submittal of evidence a qualified archaeologist has been retained. As appropriate, evidence appropriate buffers have been

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>professional judgment. The following notifications shall apply, depending on the nature of the find:</p> <ul style="list-style-type: none"> ● If the professional archaeologist determines that the find does not represent a cultural resource, work may resume immediately, and no agency notifications are required. ● If the professional archaeologist determines that the find does represent a cultural resource from any time period or cultural affiliation, he or she shall immediately notify the City of Chino, and applicable landowner. The agencies shall consult on a finding of eligibility and implement appropriate treatment measures, if the find is determined to be a Historical Resource under CEQA, as defined in Section 15064.5(a) of the CEQA Guidelines. Work may not resume within the no-work radius until the lead agencies, through consultation as appropriate, determine that the site either: 1) is not a Historical Resource under CEQA, as defined in Section 15064.5(a) of the CEQA Guidelines; or 2) that the treatment measures have been completed to their satisfaction. ● If the find includes human remains, or remains that are potentially human, he or she shall ensure reasonable protection measures are taken to protect the discovery from disturbance (AB 2641). The archaeologist shall notify the San Bernardino County Coroner (per § 7050.5 of the Health and Safety Code). The provisions of § 7050.5 of the California Health and Safety Code, § 5097.98 of the California PRC, and AB 2641 will be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, the Coroner will notify the NAHC, which then will designate a Native American Most Likely Descendant (MLD) for the Project (§ 5097.98 of the PRC). The des- 			<p>established around any suspected resources uncovered during earth disturbance.</p> <p>Submittal (as required) of evidence of appropriate treatment, recordation, and /or recovery of any resource.</p>

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>ignated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. If the landowner does not agree with the recommendations of the MLD, the NAHC can mediate (§ 5097.94 of the PRC). If no agreement is reached, the landowner must rebury the remains where they will not be further disturbed (§ 5097.98 of the PRC). This will also include either recording the site with the NAHC or the appropriate Information Center; using an open space or conservation zoning designation or easement; or recording a reinternment document with the county in which the property is located (AB 2641). Work may not resume within the no-work radius until the lead agencies, through consultation as appropriate, determine that the treatment measures have been completed to their satisfaction.</p>			
6. Energy			
<p>The Proposed Project would not result in significant adverse impacts related to energy. No mitigation is required.</p>	N/A	N/A	N/A

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
7. Geology and Soils			
<p>GEO-1: Unanticipated Discovery – Paleontological Resource. If paleontological resources (i.e., fossil remains) are discovered during excavation activities, the contractor will notify the City and cease excavation within 100 feet of the find until a qualified paleontological professional can provide an evaluation of the site. The qualified paleontological professional will evaluate the significance of the find and recommend appropriate measures for the disposition of the site (e.g. fossil recovery, curation, data recovery, and/or monitoring). Construction activities may continue on other parts of the construction site while evaluation and treatment of the paleontological resource takes place.</p>	Director of Public Works	During all ground disturbing construction activities, as appropriate.	<p>Submittal of evidence a qualified paleontologist has been retained.</p> <p>As appropriate, evidence appropriate buffers have been established around any suspected resources uncovered during earth disturbance.</p> <p>Identification of appropriate treatment, recordation, and/or recovery of any resource.</p>
8. Greenhouse Gas Emissions			
The Proposed Project would not result in significant adverse impacts related to greenhouse gas emissions. No mitigation would be required.	N/A	N/A	N/A
9. Hazards and Hazardous Materials			
<p>HAZ-1: Traffic Control Plan. Prior to construction, the City of Chino (or its contractor) shall prepare a Traffic Control Plan to ensure proper access to residences and businesses in the area by emergency vehicles during</p>	Director of Public Works	Prior to construction.	

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
construction and to maintain traffic flow. The Traffic Control Plan shall be approved by the City of Chino prior to any lane closures.			
10. Hydrology and Water Quality			
The Proposed Project would not result in significant adverse impacts related to hydrology and water quality. No mitigation would be required.	N/A	N/A	N/A
11. Land Use and Planning			
The Proposed Project would not result in significant adverse impacts related to land use and planning. No mitigation would be required.	N/A	N/A	N/A
12. Mineral Resources			
The Proposed Project would not result in significant adverse impacts related to mineral resources. No mitigation would be required.	N/A	N/A	N/A
13. Noise			
<p>NO-1: The following measures are recommended during all construction of the Proposed Project:</p> <ul style="list-style-type: none"> • All construction equipment on construction sites shall be operated as far away from vibration-sensitive sites as reasonably possible. • All rollers used during Project construction shall be turned off when not in use. 	Director of Public Works	During all construction activities.	Site inspection
14. Population and Housing			
The Proposed Project would not result in significant adverse impacts related to population and housing. No mitigation would be required.	N/A	N/A	N/A
15. Public Services			

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
The Proposed Project would not result in significant adverse impacts related to public services. No mitigation would be required.	N/A	N/A	N/A
16. Recreation			
The Proposed Project would not result in significant adverse impacts related to recreation. No mitigation would be required.	N/A	N/A	N/A
17. Transportation			
The Proposed Project would not result in significant adverse impacts related to transportation. No mitigation would be required.	N/A	N/A	N/A
18. Tribal Cultural Resources			
<p>TCR-1: Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities:</p> <p>a. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any “ground-disturbing activity” for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). “Ground-disturbing activity” shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.</p>	Director of Public Works	Prior to commencement of ground disturbing activities and during project implementation.	Evidence of Executed Monitoring Agreement

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>b. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.</p> <p>c. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.</p> <p>d. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determina-</p>			

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>tion and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.</p> <p>e. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe’s sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.</p>			
<p>TCR-2: Unanticipated Discovery of Human Remains and Associated Funerary Objects:</p> <p>a. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.</p>	Director of Public Works	During all ground disturbing construction activities.	Submittal (as required) of evidence of appropriate treatment, recordation, and /or recovery of any resource.

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>b. If Native American human remains and/or grave goods discovered or recognized on the project site, then all construction activities shall immediately cease. Health and Safety Code Section 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and all ground-disturbing activities shall immediately halt and shall remain halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe they are Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission, and Public Resources Code Section 5097.98 shall be followed.</p> <p>c. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).</p> <p>d. Construction activities may resume in other parts of the project site at a minimum of 200 feet away from discovered human remains and/or burial goods, if the Kizh determines in its sole discretion that resuming construction activities at that distance is acceptable and provides the project manager express consent of that determination (along with any other mitigation measures the Kizh monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5(f).)</p>			

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>e. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods. Any historic archaeological material that is not Native American in origin (non-TCR) shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, it shall be offered to a local school or historical society in the area for educational purposes.</p> <p>f. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.</p>			
<p>TCR-3: Procedures for Burials and Funerary Remains:</p> <p>a. As the Most Likely Descendant (“MLD”), the Koo-nas-gna Burial Policy shall be implemented. To the Tribe, the term “human remains” encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains.</p>	Director of Public Works	During all ground disturbing construction activities.	Submittal (as required) of evidence of appropriate treatment, recordation, and /or recovery of any resource.

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>b. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery and a separate treatment plan shall be created.</p> <p>c. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials.</p> <p>d. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The Tribe will make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that burials will be removed.</p>			

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
<p>e. In the event preservation in place is not possible despite good faith efforts by the project applicant/developer and/or landowner, before ground-disturbing activities may resume on the project site, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.</p> <p>f. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.</p> <p>g. The Tribe will work closely with the project’s qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the Tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery-related forms of documentation shall be approved in advance by the Tribe. If any data recovery is performed, once complete, a final report shall be submitted to the Tribe and the NAHC. The Tribe does NOT authorize any</p>			

**Mitigation Monitoring and Reporting Program
Well 11 Pipeline Alignment Project**

Mitigation Measures and Project Design Features	Responsible Party	Timing for Standard Condition or Mitigation Measure	Compliance Verification (Date and Signature Required)
scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.			
19. Utilities and Service Systems			
The Proposed Project would not result in significant adverse impacts related to utilities and service systems. No mitigation would be required.	N/A	N/A	N/A
20. Wildfire			
The Proposed Project would not result in significant adverse impacts related to wildfire. No mitigation would be required.	N/A	N/A	N/A