

Construction Schedule for

Dunnigan Pipelines - Alt 2 (Sac River)

02

Subpackage

Phase	Code	Start Date	End Date	Working Days	Days/Week
02 Dunnigan Pipelines - Alt 2 (Sac River)	Dunnigan Pipelines - Alt 2 (Sac River)-02				
02.01 Dunnigan Pipeline - Sac River	Dunnigan Pipelines - Alt 2 (Sac River)-0201	5/8/2025	11/18/2026	400	5
02.02 Dunnigan - TCC Intake Structure	Dunnigan Pipelines - Alt 2 (Sac River)-0202	12/19/2025	8/1/2026	161	5
02.03 Dunnigan - CBD Discharge Structure	Dunnigan Pipelines - Alt 2 (Sac River)-0203	6/1/2026	10/1/2026	88	5
02.04 Dunnigan - Sac River Discharge Structure	Dunnigan Pipelines - Alt 2 (Sac River)-0204	11/1/2025	11/1/2026	261	5

01

02

03

04

Offroad Equipment (Fossil Fuel) Inventory for

Dunnigan Pipelines - Alt 2 (Sac River)02

Code	Equipment Name	General Equipment Category	#/day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Fuel (gal/day) (if known)
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Horz. Boring Csg. Mch.	Bore/Drill Rigs	0.69	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Hyd. Excavator, 2.5 C.Y.	Excavators	5.07	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Hydraulic Crane, 25 ton	Cranes	0.69	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Hyd. Crane, 55 Ton	Cranes	4.96	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Grader, 30,000 Lbs.	Graders	0.02	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Concrete Pump (Small)	Pumps	0.52	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Grout Pump, 50 C.F./hr.	Pumps	0.45	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Roller, Vibratory, 25 Ton	Rollers	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Sheepsfoot Roller, 240 H.P.	Rollers	1.99	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	S.P. Scraper, 14 C.Y.	Scrapers	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Dozer, 300 H.P.	Rubber Tired Dozers	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	F.E. Loader, Crl, 1.5 C.Y.	Tractors/Loaders/Backhoes	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	4.50	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Truck Tractor, 220 H.P.	Off-Highway Tractors	1.49	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	11.24	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Truck Tractor, 6x4, 450 H.P.	Off-Highway Tractors	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Gas Engine Vibrator	Other Construction Equipment	1.03	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Welder, Gas Engine, 300 amp	Welders	0.69	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Hyd. Excavator, 2.5 C.Y.	Excavators	0.06	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Rammer/Tamper, Gas, 15"	Other Construction Equipment	0.02	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Trowel, 48" Walk-Behind	Other Construction Equipment	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Lattice Boom Crane, 40 Ton	Cranes	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Hydraulic Crane, 25 ton	Cranes	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Grader, 30,000 Lbs.	Graders	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Concrete Pump (Small)	Pumps	0.02	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Tandem Roller, 5 Ton	Rollers	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Sheepsfoot Roller, 240 H.P.	Rollers	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	0.07	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Truck Tractor, 220 H.P.	Off-Highway Tractors	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	0.05	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Gas Engine Vibrator	Other Construction Equipment	0.05	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Hyd. Excavator, 2.5 C.Y.	Excavators	0.16	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Rammer/Tamper, Gas, 15"	Other Construction Equipment	0.03	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Trowel, 48" Walk-Behind	Other Construction Equipment	0.02	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Crawler Crane, 75 Ton	Cranes	0.03	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Hydraulic Crane, 25 ton	Cranes	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Grader, 30,000 Lbs.	Graders	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Concrete Pump (Small)	Pumps	0.05	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Tandem Roller, 5 Ton	Rollers	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Sheepsfoot Roller, 240 H.P.	Rollers	0.05	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	0.20	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Truck Tractor, 220 H.P.	Off-Highway Tractors	0.04	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	0.11	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Gas Engine Vibrator	Other Construction Equipment	0.11	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Welder, Gas Engine, 300 amp	Welders	0.03	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Clamshell Bucket, .5 C.Y.	Other Construction Equipment	0.15	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Hyd. Excavator, 2.5 C.Y.	Excavators	0.03	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Rammer/Tamper, Gas, 15"	Other Construction Equipment	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Trowel, 48" Walk-Behind	Other Construction Equipment	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Crawler Crane, 15 Ton	Cranes	0.15	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Crawler Crane, 75 Ton	Cranes	0.04	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Hydraulic Crane, 25 ton	Cranes	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Grader, 30,000 Lbs.	Graders	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Concrete Pump (Small)	Pumps	0.04	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Tandem Roller, 5 Ton	Rollers	0.00	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Sheepsfoot Roller, 240 H.P.	Rollers	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	0.04	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Truck Tractor, 220 H.P.	Off-Highway Tractors	0.01	8	Diesel		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Gas Engine Vibrator	Other Construction Equipment	0.07	8	Gasoline		
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Welder, Gas Engine, 300 amp	Welders	0.04	8	Gasoline		

Note:

1. Number of equipment/day = Total Equipment Hours / 8 hours per day / Total number of days of the Sub-package.
2. Number of equipment in this table represents averages throughout each sub-package. It does not represent a typical day or peak day conditions.

Jacobs Calculations for #/days

Package		Equipment	total hours (Engineering Data)	hours per day	total equipment days @listed hours per day	total number of working days/phase	Number of equipment/day @ listed hours per day
		Horz. Boring Csg. Mch.	2,196.53	8	275	400	0.69
		Hyd. Excavator, 2.5 C.Y.	16,230.44	8	2029	400	5.07
		Hydraulic Crane, 25 ton	2,196.53	8	275	400	0.69
		Hyd. Crane, 55 Ton	15,881.33	8	1985	400	4.96
		Grader, 30,000 Lbs.	50.59	8	6	400	0.02
		Concrete Pump (Small)	1,653.36	8	207	400	0.52
		Grout Pump, 50 C.F./hr.	1,446.90	8	181	400	0.45
		Roller, Vibratory, 25 Ton	26.47	8	3	400	0.01
		Sheepsfoot Roller, 240 H.P.	6,361.73	8	795	400	1.99
		S.P. Scraper, 14 C.Y.	15.43	8	2	400	0.00
		Dozer, 300 H.P.	16.55	8	2	400	0.01
		F.E. Loader, Crl, 1.5 C.Y.	12.69	8	2	400	0.00
		F.E. Loader, W.M., 5.5 C.Y.	14,409.75	8	1801	400	4.50
		Truck Tractor, 220 H.P.	4,771.30	8	596	400	1.49
		Truck Tractor, 6x4, 380 H.P.	35,981.34	8	4498	400	11.24
		Truck Tractor, 6x4, 450 H.P.	12.69	8	2	400	0.00
		Gas Engine Vibrator	3,306.71	8	413	400	1.03
		Welder, Gas Engine, 300 amp	2,196.53	8	275	400	0.69
		Hyd. Excavator, 2.5 C.Y.	72.67	8	9	161	0.06
		Backhoe Loader, 48 H.P.	8.00	8	1	161	0.01
		Rammer/Tamper, Gas, 15"	20.51	8	3	161	0.02
		Trowel, 48" Walk-Behind	16.44	8	2	161	0.01
		Lattice Boom Crane, 40 Ton	16.00	8	2	161	0.01
		Hydraulic Crane, 25 ton	6.33	8	1	161	0.00
		Grader, 30,000 Lbs.	3.01	8	0	161	0.00
		Concrete Pump (Small)	30.75	8	4	161	0.02
		Tandem Roller, 5 Ton	5.45	8	1	161	0.00
		Sheepsfoot Roller, 240 H.P.	18.53	8	2	161	0.01
		F.E. Loader, W.M., 5.5 C.Y.	90.13	8	11	161	0.07
		Truck Tractor, 220 H.P.	18.90	8	2	161	0.01
		Truck Tractor, 6x4, 380 H.P.	62.56	8	8	161	0.05
		Gas Engine Vibrator	61.50	8	8	161	0.05
		Hyd. Excavator, 2.5 C.Y.	109.63	8	14	88	0.16
		Backhoe Loader, 48 H.P.	5.06	8	1	88	0.01
		Rammer/Tamper, Gas, 15"	19.28	8	2	88	0.03
		Trowel, 48" Walk-Behind	12.90	8	2	88	0.02
		Crawler Crane, 75 Ton	23.01	8	3	88	0.03
		Hydraulic Crane, 25 ton	7.70	8	1	88	0.01
		Grader, 30,000 Lbs.	2.36	8	0	88	0.00
		Concrete Pump (Small)	38.52	8	5	88	0.05
		Tandem Roller, 5 Ton	4.29	8	1	88	0.01
		Sheepsfoot Roller, 240 H.P.	35.33	8	4	88	0.05
		F.E. Loader, W.M., 5.5 C.Y.	138.28	8	17	88	0.20
		Truck Tractor, 220 H.P.	31.20	8	4	88	0.04
		Truck Tractor, 6x4, 380 H.P.	77.33	8	10	88	0.11
		Gas Engine Vibrator	77.04	8	10	88	0.11
		Welder, Gas Engine, 300 amp	23.01	8	3	88	0.03
		Clamshell Bucket, .5 C.Y.	320.00	8	40	261	0.15
		Hyd. Excavator, 2.5 C.Y.	53.33	8	7	261	0.03
		Rammer/Tamper, Gas, 15"	19.08	8	2	261	0.01
		Trowel, 48" Walk-Behind	8.62	8	1	261	0.00
		Crawler Crane, 15 Ton	320.00	8	40	261	0.15
		Crawler Crane, 75 Ton	80.00	8	10	261	0.04
		Hydraulic Crane, 25 ton	17.57	8	2	261	0.01
		Grader, 30,000 Lbs.	1.58	8	0	261	0.00
		Concrete Pump (Small)	76.20	8	10	261	0.04
		Tandem Roller, 5 Ton	2.91	8	0	261	0.00
		Sheepsfoot Roller, 240 H.P.	26.67	8	3	261	0.01
		F.E. Loader, W.M., 5.5 C.Y.	89.88	8	11	261	0.04
		Water Tank Trailer, 5000 Gal.	23.15	8	3	261	0.01
		Truck Tractor, 220 H.P.	23.15	8	3	261	0.01
		Gas Engine Vibrator	152.40	8	19	261	0.07
		Welder, Gas Engine, 300 amp	80.00	8	10	261	0.04

Jacobs Equipment Types

Equipment	General Type	Fuel Type
Asphalt Paver, 130 H.P.	Pavers	Diesel
Horz. Boring Csg. Mch.	Bore/Drill Rigs	Diesel
Hyd. Excavator, 1.5 C.Y.	Excavators	Diesel
Hyd. Excavator, 2.5 C.Y.	Excavators	Diesel
Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes	Diesel
Crawler Crane, 75 Ton	Cranes	Diesel
Hydraulic Crane, 25 ton	Cranes	Diesel
Hyd. Crane, 55 Ton	Cranes	Diesel
S.P. Crane, 4x4, 12 Ton	Cranes	Diesel
Grader, 30,000 Lbs.	Graders	Diesel
Concrete Pump (Small)	Pumps	Diesel
Grout Pump, 50 C.F./hr.	Pumps	Diesel
Roller, Vibratory, 25 Ton	Rollers	Diesel
Tandem Roller, 10 Ton	Rollers	Diesel
Roller, Pneum. Whl., 12 Ton	Rollers	Diesel
Sheepsfoot Roller, 240 H.P.	Rollers	Diesel
S.P. Scraper, 14 C.Y.	Scrapers	Diesel
Dozer, 200 H.P.	Rubber Tired Dozers	Diesel
Dozer, 300 H.P.	Rubber Tired Dozers	Diesel
F.E. Loader, Crl, 1.5 C.Y.	Tractors/Loaders/Backhoes	Diesel
F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	Diesel
Dump Truck, 12 C.Y., 400 H.P.	Off-Highway Trucks	Diesel
Water Tank Trailer, 5000 Gal.	Off-Highway Trucks	Diesel
Dump Trailer, 20 C.Y.	Off-Highway Trucks	Diesel
Truck Tractor, 220 H.P.	Off-Highway Tractors	Diesel
Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	Diesel
Truck Tractor, 6x4, 450 H.P.	Off-Highway Tractors	Diesel
Gas Engine Vibrator	Other Construction Equipment	Gasoline
Welder, Electric, 300 amp	Welders	Electric
Welder, Gas Engine, 300 amp	Welders	Gasoline
Rammer/Tamper, Gas, 15"	Other Construction Equipment	Diesel
Trowel, 48" Walk-Behind	Other Construction Equipment	Diesel
Lattice Boom Crane, 40 Ton	Cranes	Diesel
Tandem Roller, 5 Ton	Rollers	Diesel
Clamshell Bucket, .5 C.Y.	Other Construction Equipment	Diesel
Crawler Crane, 15 Ton	Cranes	Diesel

Vehicle Inventory for

Dunnigan Pipelines - Alt 2 (Sac River) 02

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# of Vehicles	One-Way Trips/Day	Miles per Trip	Fuel Type	Fuel (gal/day) (if known)
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Water Tank Trailer, 5000 Gal.	Onsite	1	119.6	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Dump Trailer, 20 C.Y.	Onsite	1	899.5	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Water Tank Trailer, 5000 Gal.	Onsite	1	1.2	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Dump Trailer, 20 C.Y.	Onsite	1	3.9	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Water Tank Trailer, 5000 Gal.	Onsite	1	3.5	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Dump Trailer, 20 C.Y.	Onsite	1	8.8	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Water Tank Trailer, 5000 Gal.	Onsite	1	0.9	1	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Dump Truck - 20 cy	Offsite/Haul	1	87.70	25	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Pipe Hauling Trucks	Offsite/Haul	1	7.33	120	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Dump Truck - 20 cy	Offsite/Haul	1	0.02	25	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Dump Truck - 20 cy	Offsite/Haul	1	0.03	25	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Pipe Hauling Trucks	Offsite/Haul	1	0.05	120	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Dump Truck - 20 cy	Offsite/Haul	1	0.55	25	Diesel	
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Pipe Hauling Trucks	Offsite/Haul	1	0.08	120	Diesel	

Note:

1. Onsite water truck and dump truck numbers and miles per trip were set to 1.
2. The one-way trips/day were estimated by dividing the total number of trips by the number of days of the sub-package.
3. Number of trips per day in this table represents averages throughout each sub-package. It does not represent a typical day or peak day conditions.

	Equipment	total hours (Engineering Data)	total number of working days/phase	average hours/day	Miles/day (assume 10 miles/hour)
	Water Tank Trailer, 5000 Gal.	4,783.99	400	11.96	119.6
	Dump Trailer, 20 C.Y.	35,981.34	400	89.95	899.5
	Water Tank Trailer, 5000 Gal.	18.90	161	0.12	1.2
	Dump Trailer, 20 C.Y.	62.56	161	0.39	3.9
	Water Tank Trailer, 5000 Gal.	31.20	88	0.35	3.5
	Dump Trailer, 20 C.Y.	77.33	88	0.88	8.8
	Water Tank Trailer, 5000 Gal.	23.15	261	0.09	0.9
	Total amount	Assumption	One-way trips total	Number of days	
	350815	Assume 20 cy per load	35,082	400	
	51284	Assume avg 35' per load	2,931	400	
	30	Assume 20 cy per load	3	161	
	24	Assume 20 cy per load	2	88	
	75	Assume avg 35' per load	4	88	
	1430	Assume 20 cy per load	143	261	
	1450	Assume avg 140' per load	21	261	

Employees Required to Construct**Dunnigan Pipelines - Alt 2 (Sac 02**

Code	Vehicle Type	# of Employees/Day	One-Way Trips/Day	Miles per Trip
Dunnigan Pipelines - Alt 2 (Sac River)-0201	Employee	102	204	60.0
Dunnigan Pipelines - Alt 2 (Sac River)-0202	Employee	3	6	60.0
Dunnigan Pipelines - Alt 2 (Sac River)-0203	Employee	6	12	60.0
Dunnigan Pipelines - Alt 2 (Sac River)-0204	Employee	3	6	60.0

Note:

1. Worker trips assumed that the trips would be from Sacramento (68 miles), Willows (19 miles), Williams (9 miles), and Red Bluff (60 miles). One-way distance of 60 miles.
2. Number of trips per day in this table represents averages throughout each sub-package. It does not represent a typical day or peak day conditions.

Jacobs Calculations

Subpackage	Total labor hours (Engineering Data)	Hours per employee/day	Total days of construction	#employees/d ay	one-way Trips/day
01	325244	8	400	102	204
02	3240	8	161	3	6
03	3975	8	88	6	12
04	6143	8	261	3	6

miles was used.

Earthmoving/Paving Assumptions for

Dunnigan Pipelines - 02

Code	<i>Daily</i>				
	Stripping or Grading (acres/day)	Borrow/Excavate (cy/day)	Dredge (cy/day)	Paving (sf/day)	Stripping or Grading (total acres)
Dunnigan Pipelines - Alt 2 (Sac River)-0201	0.006	14733.9	0.0	0.0	1.2
Dunnigan Pipelines - Alt 2 (Sac River)-0202	0.0	157.5	0.0	0.0	0.08
Dunnigan Pipelines - Alt 2 (Sac River)-0203	0.001	442.8	0.0	0.0	0.06
Dunnigan Pipelines - Alt 2 (Sac River)-0204	0.0003	85.1	0.0	0.0	0.042

Note:

1. Daily amounts were estimated using 50% of construction days.

Total

Borrow/Excavate (total cy)	Dredge (total cy)	Paving (total sf)
2946786.0	0.0	0.0
12680.0	0.0	0.0
19482.0	0.0	0.0
11110.0	0.0	0.0

Jacobs Calculations

Total # days/subpackage	Total # days/earthmoving -paving
400	200
161	80.5
88	44
261	130.5

Demolition Assumptions for

Dunnigan Pipelines - Alt 2 02

Code	# of Structures Demolished	Demolition per day (sf)
02.01 Dunnigan Pipeline - Sac River	0	0
02.02 Dunnigan - TCC Intake Structure	1	940
02.03 Dunnigan - CBD Discharge Structure	1	770
02.04 Dunnigan - Sac River Discharge Structure	0	0

Note:

Demolition data per day in the table represents the total amount of demolition of the entire sub-package. This can be used if a worse-case daily fugitive dust emission is needed. If average daily emissions are needed or if the emissions will be multiplied by the number of working days to get the total emissions, the value in the table need to be divided by the number of working days for that sub-package