Demolition Assumptions for

Code	# of Structures Demolished	Demolition per day (sf)
No Demolition		

Construction Schedule for

Transmission Lines for WAPA Connection 10

Phase	Code	Start Date	End Date	Working Days	Days/Week
10 Transmission Lines for WAPA Connection	Transmission Lines for WAPA Connection-10				
10.01 Funks to WAPA Connection	Transmission Lines for WAPA Connection-1001	10/8/2026	6/8/2027	174	5
10.02 Funks to TRR	Transmission Lines for WAPA Connection-1002	6/8/2027	7/26/2028	296	5

Subpackage

01 02

Offroad Equipment (Fossil Fuel) Inventory for

Transmission Lines for WAPA Connec10

Code	Equipment Name	General Equipment Category	#/day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Fuel (gal/day) (if known)
Transmission Lines for WAPA Connection-1001	auger, truck-mounted, for caissons, water wells	Other Construction Equipment	0.13	8	Diesel		
Transmission Lines for WAPA Connection-1001	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.13	8	Diesel		
Transmission Lines for WAPA Connection-1001	crane truck mount, cable 8x4 drive 40 ton, 12' radius	Cranes	0.13	8	Diesel		
Transmission Lines for WAPA Connection-1002	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.51	8	Diesel		
Transmission Lines for WAPA Connection-1002	crane truck mount, cable 8x4 drive 40 ton, 12' radius	Cranes	0.59	8	Diesel		
Transmission Lines for WAPA Connection-1002	crane truck mount, cable 8x4 drive 90 ton, 15' radius	Cranes	0.51	8	Diesel		
Transmission Lines for WAPA Connection-1002	crane truck mounted, hydraulic, 12 ton capacity	Cranes	1.03	8	Diesel		
Transmission Lines for WAPA Connection-1002	dozer, crawler, torque converter, diesel 200 HP	Rubber Tired Dozers	0.51	8	Diesel		
Transmission Lines for WAPA Connection-1002	forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	forklifts	0.51	8	Diesel		

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

						total equipment	total number	Number of
				Total number of		days (Engineering	of working	equipment/day @
Package			Equipment		hours per day	data)	days/phase	listed hours per day
			auger, truck-mounted, for caissons, water wells					0.13
			oe-loader wheel type 112 HP, 1-1/2 CY capacity		8			0.13
			e truck mount, cable 8x4 drive 40 ton, 12' radius		8	22	174	0.13
			oe-loader wheel type 112 HP, 1-1/2 CY capacity		8	152	296	0.51
			e truck mount, cable 8x4 drive 40 ton, 12' radius		8	174	296	0.59
			truck mount, cable 8x4 drive 90 ton, 15' radius		8	152	296	0.51
			crane truck mounted, hydraulic, 12 ton capacity		8	304	296	1.03
			dozer, crawler, torque converter, diesel 200 HF		8	152	296	0.51
	for	klift, for ro	ugh terrain, 42' lift, 35' reach, 9000 lb., 110 H.P	. 1,216.00	8	152	296	0.51
ι		1	1	1	1	1	1	1

auger, tr backhoe-loade crane truck m crane truck m crane tru dozer, c forklift, for rough terra trailer with cab trailer w

Jacobs Equipment Types

quipment	General Type	Fuel Typ
Asphalt Paver, 130 H.P.		Diesel
Horz. Boring Csg. Mch.		Diesel
Hyd. Excavator, 1.5 C.Y.		Diesel
Hyd. Excavator, 2.5 C.Y.		Diesel
	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
	Rubber Tired Dozers	Diesel
	Rubber Tired Dozers	Diesel
	Tractors/Loaders/Backhoes	Diesel
	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	Gasolin
Welder, Electric, 300 amp		Electric
Welder, Gas Engine, 300 amp	Welders	Gasolin
	Other Construction Equipment	Diesel
	Other Construction Equipment	Diesel
Lattice Boom Crane, 40 Ton		Diesel
Tandem Roller, 5 Ton		Diesel
	Other Construction Equipment	Diesel
Crawler Crane, 15 Ton		Diesel
20' Suction Hose, 6"		Diesel
50' Discharge Hose, 6"		Diesel
Centr. Water Pump, 6"		Diesel
	Other Construction Equipment	Diesel
Crawler Crane, 25 Ton		Diesel
	Tractors/Loaders/Backhoes	Diesel
Dist. Tanker, 3000 Gallon		Diesel
Dump Truck, 8 C.Y., 220 H.P.		Diesel
Dump Truck, Off Hwy., 65 Ton		Diesel
Hyd. Crane, 12 Ton		Diesel
Hyd. Excavator, .75 C.Y.		Diesel
Lattice Boom Crane, 90 Ton		Diesel Diesel
S.P. Crane, 4x4, 5 Ton		_
S.P. Scraper, 21 C.Y. Vibratory Roller, Towed, 23 Ton		Diesel Diesel
ck-mounted, for caissons, water wells		Diesel
wheel type 112 HP, 1-1/2 CY capacity unt, cable 8x4 drive 40 ton, 12' radius		Diesel
		Diesel
unt, cable 8x4 drive 90 ton, 15' radius		Diesel
k mounted, hydraulic, 12 ton capacity		Diesel
awler, torque converter, diesel 200 HP		Diesel
n, 42' lift, 35' reach, 9000 lb., 110 H.P.		Diesel
e pulling rig, for high voltage line work		Diesel
h cable reel for high voltage line work	OIT-HIGNWAY TRUCKS	Diesel

A.T. Forklift, 31' reach, 45' lift	Forklifts	Diesel
Earth Auger, Truck-Mtd.	Other Construction Equipment	Diesel
Flatbed Trailer, 25 Ton	Off-Highway Trucks	Diesel
Flatbed Truck, Gas, 1.5 Ton	Off-Highway Trucks	Diesel
Flatbed Truck, Gas, 3 Ton	Off-Highway Trucks	Diesel
Hyd. Crane, 100 Ton (Daily)	Cranes	Diesel
Hyd. Crane, 25 Ton (Daily)	Cranes	Diesel
Lowbed Trailer, 75 Ton	Off-Highway Trucks	Diesel
Manual Fence Post Auger, Gas	Other Construction Equipment	Gasoline
Pickup Truck, 4x4, 3/4 Ton	Off-Highway Trucks	Diesel

Offroad Equipment (Electric) Inventory for

Transmission Lines for WAP/10

Code	Equipment Name	#/day	kWh/day / equipment
No Electric Equipment			
			_
			-
			+

Vehicle In	ventory for
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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)
Transmission Lines for WAPA Connection-1001	trailer with cable pulling rig, for high voltage line work	Onsite	1	10.1	1	Diesel	
Transmission Lines for WAPA Connection-1001	trailer with cable reel for high voltage line work	Onsite	1	19.8	1	Diesel	
Transmission Lines for WAPA Connection-1001	trailer with cable tensioning rig, for high voltage line work	Onsite	1	10.1	1	Diesel	
Transmission Lines for WAPA Connection-1002	trailer with cable pulling rig, for high voltage line work	Onsite	1	47.0	1	Diesel	
Transmission Lines for WAPA Connection-1002	trailer with cable reel for high voltage line work	Onsite	1	41.1	1	Diesel	
Transmission Lines for WAPA Connection-1002	trailer with cable tensioning rig, for high voltage line work	Onsite	1	23.5	1	Diesel	
Transmission Lines for WAPA Connection-1001	Equipment Hauling Trucks	Offsite/Haul	1	0.20	500	Diesel	
Transmission Lines for WAPA Connection-1002	Equipment Hauling Trucks	Offsite/Haul	1	0.33	500	Diesel	

Note:

1. Onsite water truck and dump truck numbers and miles per trip were set to 1.

The one-way trips/day were estimated by dividing the total number of trips by the number of days of the sub-package.
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 Assumptions

		total number of		
	(Engineering	working	average	Miles/day (assume
Equipment	Data)	days/phase	hours/day	10 miles/hour)
	176	174	1.0	10.1
	344.00	174	2.0	19.8
	176.00	174	1.0	10.1
	1,392.00	296	4.7	47.0
	1,216.00	296	4.1	41.1
	696.00	296	2.4	23.5
	Amount	Assumption	Total One-way Trips	Total number of days
	17	Large equipment	34.00	174
	49	Large equipment	98.00	296

Employees Required to Construct

Transmission Lines for WAPA 10

Code	Vehicle Type	# of Employees/Day	One-Way Trips/Day	Miles per Trip
Transmission Lines for WAPA Connection-1001	Employee	13	26	60.0
Transmission Lines for WAPA Connection-1002	Employee	24	48	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 I

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

		Total labor hours	Hours per	Total days of	#employees/d	
	Subpackage	(Engineering Data)	employee/day	construction	ay	one-way Trips/day
01		17592	8	174	13	26
02		55483	8	296	24	48

miles was used.

Marine Inventory for *Please show activities involving marine equipment as separate line items in the schedule tab

Code	Dock Site	# of Vessels/Day	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)
No Marine vessels				

Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
		<u> </u>	<u> </u>

Earthmoving/Paving Assumptions for		Transmission Lines fo Daily	10		
Code	Stripping or Grading (acres/day)	Borrow/Excavate (cy/day)	Dredge (cy/day)	Paving (sf/day)	Stripping or Grading (total acres)
Negligible earthmoving activities					

Note:

Earthmoving related to transmission line are assumed to be negligible compared to other earthmoving activities of the project.

Total		
Borrow/Excavate (total cy)	Dredge (total cy)	Paving (total sf)

Jacobs Calculations

Total # days/subpackage	Total # days/earthmovi ng -paving