## Demolition Assumptions for

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

### **Construction Schedule for**

### TRR West: Transmission Lines for WAPA Connection 10

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

### Subpackage

01 02

# Offroad Equipment (Fossil Fuel) Inventory for

### TRR West: Transmission Lines for W/10

Code	Equipment Name	General Equipment Category	#/day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Fuel (gal/day) (if known)
TRR West: Transmission Lines for WAPA Connection-1001	auger, truck-mounted, for caissons, water wells	Other Construction Equipment	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	crane truck mounted, hydraulic, 12 ton capacity	Cranes	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	forklifts	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	crane truck mount, cable 8x4 drive 90 ton, 15' radius	Cranes	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	crane truck mounted, hydraulic, 12 ton capacity	Cranes	0.17	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	dozer, crawler, torque converter, diesel 200 HP	Rubber Tired Dozers	0.09	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	trailer with cable reel for high voltage line work	Other Construction Equipment	0.09	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	trailer with cable tensioning rig, for high voltage line work	Other Construction Equipment	0.09	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	trailer with cable pulling rig, for high voltage line work	Other Construction Equipment	0.09	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1001	crane truck mount, cable 8x4 drive 40 ton, 12' radius	Cranes	0.09	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	auger, truck-mounted, for caissons, water wells	Other Construction Equipment	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	crane truck mounted, hydraulic, 12 ton capacity	Cranes	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	Tractors/Loaders/Backhoes	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	forklifts	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	crane truck mount, cable 8x4 drive 90 ton, 15' radius	Cranes	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	crane truck mounted, hydraulic, 12 ton capacity	Cranes	0.30	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	dozer, crawler, torque converter, diesel 200 HP	Rubber Tired Dozers	0.20	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	trailer with cable reel for high voltage line work	Other Construction Equipment	0.20	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	trailer with cable tensioning rig, for high voltage line work	Other Construction Equipment	0.20	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	trailer with cable pulling rig, for high voltage line work	Other Construction Equipment	0.20	8	Diesel		
TRR West: Transmission Lines for WAPA Connection-1002	crane truck mount, cable 8x4 drive 40 ton, 12' radius	Cranes	0.20	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 number of hrs		total equipment days (Engineering	total number of working	Number of equipment/day @
Package			Equipment	(Calculatd)	hours per day	data)	days/phase	listed hours per day
			auger, truck-mounted, for caissons, water wel	240	8	30	174	0.17
			backhoe-loader wheel type 112 HP, 1-1/2 CY c	240	8	30	174	0.17
			crane truck mounted, hydraulic, 12 ton capaci	240	8	30	174	0.17
		ba	ckhoe-loader wheel type 112 HP, 1-1/2 CY capacity	240	8	30	174	0.17
	for	rklift, fo	r rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	240	8	30	174	0.17
		10	ane truck mount, cable 8x4 drive 90 ton, 15' radius	240	8	30	174	0.17
			crane truck mounted, hydraulic, 12 ton capacity	240	8	30	174	0.17
			dozer, crawler, torque converter, diesel 200 HP	120	8	15	174	0.09
			trailer with cable reel for high voltage line work	120	8	15	174	0.09
		trailer	with cable tensioning rig, for high voltage line work	120	8	15	174	0.09
		trai	ler with cable pulling rig, for high voltage line work	120	8	15	174	0.09
		CI	ane truck mount, cable 8x4 drive 40 ton, 12' radius	120	8	15	174	0.09
			auger, truck-mounted, for caissons, water wells	720	8	90	296	0.30
		ba	ckhoe-loader wheel type 112 HP, 1-1/2 CY capacity	720	8	90	296	0.30
			crane truck mounted, hydraulic, 12 ton capacity	720	8	90	296	0.30
		ba	ckhoe-loader wheel type 112 HP, 1-1/2 CY capacity	720	8	90	296	0.30
	for	rklift, fo	r rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	720	8	90	296	0.30
		10	ane truck mount, cable 8x4 drive 90 ton, 15' radius	720	8	90	296	0.30
			crane truck mounted, hydraulic, 12 ton capacity	720	8	90	296	0.30
			dozer, crawler, torque converter, diesel 200 HP	480	8	60	296	0.20
			trailer with cable reel for high voltage line work	480	8	60	296	0.20
		trailer	with cable tensioning rig, for high voltage line work	480	8	60	296	0.20
		trai	ler with cable pulling rig, for high voltage line work	480	8	60	296	0.20
		CI	ane truck mount, cable 8x4 drive 40 ton, 12' radius	480	8	60	296	0.20

IC	bac
a	cra
ra	cra
r	forklift, for trail€
le	traile
W	trailer w

### Jacobs Equipment Types

Fauinment	Conoral Turna	Fuel Tur
	General Type	Fuel Typ Diesel
Asphalt Paver, 130 H.P.		Diesel
Horz. Boring Csg. Mch.		Diesel
Hyd. Excavator, 1.5 C.Y.		-
Hyd. Excavator, 2.5 C.Y.		Diesel
	Tractors/Loaders/Backhoes	Diesel
Crawler Crane, 75 Ton		Diesel
Hydraulic Crane, 25 ton		Diesel
Hyd. Crane, 55 Ton		Diesel
S.P. Crane, 4x4, 12 Ton		Diesel
Grader, 30,000 Lbs.		Diesel
Concrete Pump (Small)		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.		Diesel
Water Tank Trailer, 5000 Gal.	Off-Highway Trucks	Diesel
Dump Trailer, 20 C.Y.	Off-Highway Trucks	Diesel
Truck Tractor, 220 H.P.		Diesel
Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	Diesel
Truck Tractor, 6x4, 450 H.P.	Off-Highway Tractors	Diesel
	Other Construction Equipment	Gasoline
Welder, Electric, 300 amp		Electric
Welder, Gas Engine, 300 amp		Gasoline
	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
S.P. Crane, 4x4, 5 Ton		Diesel
S.P. Scraper, 21 C.Y.		Diesel
Vibratory Roller, Towed, 23 Ton	•	Diesel
r, truck-mounted, for caissons, water wells		Diesel
bader wheel type 112 HP, 1-1/2 CY capacity		Diesel
ck mount, cable 8x4 drive 40 ton, 12' radius		Diesel
ck mount, cable 8x4 drive 40 ton, 12 radius		Diesel
S CONTRACT ON THE OWNER OF THE TOTAL TOTAL TOTAL STREET		Diesel
		Diesel
e truck mounted, hydraulic, 12 ton capacity	Pubber Tired Desers	1116561
e truck mounted, hydraulic, 12 ton capacity er, crawler, torque converter, diesel 200 HP		
e truck mounted, hydraulic, 12 ton capacity er, crawler, torque converter, diesel 200 HP cerrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	forklifts	Diesel
e truck mounted, hydraulic, 12 ton capacity er, crawler, torque converter, diesel 200 HP	forklifts Other Construction Equipment	

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
	Other Construction For the second	

Walluar Felice Post Auger, Gas	Other construction Equipment	Gasonne
Pickup Truck, 4x4, 3/4 Ton	Off-Highway Trucks	Diesel

## Offroad Equipment (Electric) Inventory for

### TRR West: Transmission Line 10

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Vehicle Inventory for

Vehicle

TRR West: Transmission Lines for WAPA Connection-1001	Equipment Hauling Trucks
TRR West: Transmission Lines for WAPA Connection-1002	Equipment Hauling Trucks

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 co

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)
Offsite/Haul	1	0.20	500	Diesel	
Offsite/Haul	1	0.33	500	Diesel	

nditions.

10

### Jacobs Assumptions

	total hours (Engineering	total number of working	average	Miles/day (assume
Equipment	Data)	days/phase		10 miles/hour)
	Amount	Assumption	<b>Total One-way Trips</b>	Total number of days
	17	Large equipment	34.00	174
	49	Large equipment	98.00	296

### **Employees Required to Construct**

TRR West: Transmission Lines 10

Code	Vehicle Type	# of	One-Way	Miles per Trip
Code	venicie rype	Employees/Day	Trips/Day	whiles per trip
TRR West: Transmission Lines for WAPA Connection-1001	Employee	7	14	60.0
TRR West: Transmission Lines for WAPA Connection-1002	Employee	11	22	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 wa 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		8831	8	174	7	14
02		25231	8	296	11	22

### 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	TRR West: Transmissi 10 Daily		10
Code	Stripping or Grading (acres/day)	Borrow/Excavate (cy/day)	Dredge (cy/day)
Negligible earthmoving activities			

Note:

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

		Total		
Paving (sf/day)	Stripping or Grading (total acres)	Borrow/Excavate (total cy)	Dredge (total cy)	Paving (total sf)

ect.

#### **Jacobs Calculations**

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