

Demolition Assumptions for

Red Bluff Pumping Plant Ir 12

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

Construction Schedule for

Red Bluff Pumping Plant Improvements

12

Subpackage

Phase	Code	Start Date	End Date	Working Days	Days/Week
12 Red Bluff Pumping Plant Improvements	Red Bluff Pumping Plant Improvements-12				
12.01 Red Bluff Add Pumps	Red Bluff Pumping Plant Improvements-1201	4/27/2026	1/1/2027	178	5

01

Offroad Equipment (Fossil Fuel) Inventory for

Red Bluff Pumping Plant Improvem 12

Code	Equipment Name	General Equipment Category	#/day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Fuel (gal/day) (if known)
Red Bluff Pumping Plant Improvements-1	Hyd. Crane, 12 Ton	Cranes	0.03	8	Diesel		
Red Bluff Pumping Plant Improvements-1	S.P. Crane, 4x4, 25 Ton	Cranes	0.06	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 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
20' Suction Hose, 6"	Pumps	Diesel
50' Discharge Hose, 6"	Pumps	Diesel
Centr. Water Pump, 6"	Pumps	Diesel
Clamshell Bucket, 1 C.Y.	Other Construction Equipment	Diesel
Crawler Crane, 25 Ton	Cranes	Diesel
Crawler Loader, 3 C.Y.	Tractors/Loaders/Backhoes	Diesel
Dist. Tanker, 3000 Gallon	Off-Highway Trucks	Diesel
Dump Truck, 8 C.Y., 220 H.P.	Off-Highway Trucks	Diesel
Dump Truck, Off Hwy., 65 Ton	Off-Highway Trucks	Diesel
Hyd. Crane, 12 Ton	Cranes	Diesel
Hyd. Excavator, .75 C.Y.	Excavators	Diesel
Lattice Boom Crane, 90 Ton	Cranes	Diesel
S.P. Crane, 4x4, 5 Ton	Cranes	Diesel
S.P. Scraper, 21 C.Y.	Scapters	Diesel
Vibratory Roller, Towed, 23 Ton	Rollers	Diesel
S.P. Crane, 4x4, 25 Ton	Cranes	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

Vehicle Inventory for**Red Bluff Pumping Plant Improvements 12**

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)
Alternative1-1101	Equipment Hauling Trucks	Offsite/Haul	1	0.045	500	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.

Jacobs Assumptions

Amount	Assumptions	Total One-way Trips	Number of days
4	Large equipment	8	178

Employees Required to Construct**Red Bluff Pumping Plant Impr: 12**

Code	Vehicle Type	# of Employees/Day	One-Way Trips/Day	Miles per Trip
Red Bluff Pumping Plant Improvements-1201	Employee	1	2	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	1094	8	178	1.0	2

miles was used.

Earthmoving/Paving Assumptions for

Red Bluff Pumping PI 12

Daily

Code	Stripping or Grading (acres/day)	Borrow/Excavate (cy/day)	Dredge (cy/day)	Paving (sf/day)	Stripping or Grading (total acres)
No Earthmoving Activities					

Total

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