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

Construction Schedule for

TRR East

07

Subpackage

| Phase | Code | Start Date | End Date | Working Days | Days/Week |
|--------------------------|----------------|-------------------|-----------------|---------------------|------------------|
| 07 TRR East | TRR East -07 | | | | |
| 07.01 TRR East Reservoir | TRR East -0701 | 11/6/2025 | 2/23/2028 | 600 | 5 |
| | | | | | |
| | | | | | |

01

Offroad Equipment (Fossil Fuel) Inventory for

TRR East

07

| Code | Equipment Name | General Equipment Category | #/day | Hours/day/ equipment | Fuel Type | Engine Horsepower (if known) | Fuel (gal/day) (if known) |
|----------------|------------------------------|------------------------------|-------|-------------------------|-----------|---------------------------------|------------------------------|
| TRR East -0701 | Ripper, Beam & 1 Shank | Other Construction Equipment | 0.28 | 8 | Diesel | | |
| TRR East -0701 | Chem. Spreader, Towed | Other Construction Equipment | 0.28 | 8 | Diesel | | |
| TRR East -0701 | Rammer/Tamper, Gas, 15" | Other Construction Equipment | 0.03 | 8 | Diesel | | |
| TRR East -0701 | Trowel, 48" Walk-Behind | Other Construction Equipment | 0.08 | 8 | Diesel | | |
| TRR East -0701 | Hydraulic Crane, 25 ton | Cranes | 0.01 | 8 | Diesel | | |
| TRR East -0701 | S.P. Crane, 4x4, 25 Ton | Cranes | 0.07 | 8 | Diesel | | |
| TRR East -0701 | Grader, 30,000 Lbs. | Graders | 0.82 | 8 | Diesel | | |
| TRR East -0701 | Concrete Pump (Small) | Pumps | 0.05 | 8 | Diesel | | |
| TRR East -0701 | Roller, Vibratory, 25 Ton | Rollers | 0.28 | 8 | Diesel | | |
| TRR East -0701 | Tandem Roller, 5 Ton | Rollers | 0.38 | 8 | Diesel | | |
| TRR East -0701 | Sheepsfoot Roller, 240 H.P. | Rollers | 0.55 | 8 | Diesel | | |
| TRR East -0701 | S.P. Scraper, 21 C.Y. | Scapters | 0.50 | 8 | Diesel | | |
| TRR East -0701 | S.P. Scraper, 14 C.Y. | Scrapers | 0.00 | 8 | Diesel | | |
| TRR East -0701 | Stabilizers, 310 H.P. | Other Construction Equipment | 0.55 | 8 | Diesel | | |
| TRR East -0701 | Dozer, 200 H.P. | Rubber Tired Dozers | 1.59 | 8 | Diesel | | |
| TRR East -0701 | Dozer, 300 H.P. | Rubber Tired Dozers | 0.50 | 8 | Diesel | | |
| TRR East -0701 | F.E. Loader, Crl, 1.5 C.Y. | Tractors/Loaders/Backhoes | 0.00 | 8 | Diesel | | |
| TRR East -0701 | F.E. Loader, W.M., 5.5 C.Y. | Tractors/Loaders/Backhoes | 1.37 | 8 | Diesel | | |
| TRR East -0701 | Truck Tractor, 220 H.P. | Off-Highway Tractors | 0.28 | 8 | Diesel | | |
| TRR East -0701 | Truck Tractor, 6x4, 380 H.P. | Off-Highway Tractors | 2.33 | 8 | Diesel | | |
| TRR East -0701 | Truck Tractor, 6x4, 450 H.P. | Off-Highway Tractors | 0.00 | 8 | Diesel | | |
| TRR East -0701 | Gas Engine Vibrator | Other Construction Equipment | 0.10 | 8 | Gasoline | | |
| TRR East -0701 | Welder, Gas Engine, 300 amp | Welders | 0.00 | 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 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. | Scrapers | Diesel |
| Vibratory Roller, Towed, 23 Ton | Rollers | 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 |
| Ripper, Beam & 1 Shank | Other Construction Equipment | Diesel |
| Chem. Spreader, Towed | Other Construction Equipment | Diesel |
| S.P. Crane, 4x4, 25 Ton | Cranes | Diesel |
| Stabilizers, 310 H.P. | Other Construction Equipment | Diesel |

Vehicle Inventory for

TRR East

07

| 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) |
|----------------|-------------------------------|---|---------------|-------------------|----------------|-----------|---------------------------|
| TRR East -0701 | Dist. Tanker, 3000 Gallon | Onsite | 1 | 43.5 | 1 | Diesel | |
| TRR East -0701 | Dump Truck, Off Hwy., 65 Ton | Onsite | 1 | 256.0 | 1 | Diesel | |
| TRR East -0701 | Flatbed Truck, Gas, 3 Ton | Onsite | 1 | 22.1 | 1 | Diesel | |
| TRR East -0701 | Water Tank Trailer, 5000 Gal. | Onsite | 1 | 22.7 | 1 | Diesel | |
| TRR East -0701 | Dump Trailer, 20 C.Y. | Onsite | 1 | 142.6 | 1 | Diesel | |
| | | | | | | | |
| TRR East -0701 | Dump Truck - 20 cy | Offsite/Haul | 1 | 3.7 | 25 | 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) |
|-------------------------------|--------------------------------|------------------------------------|-----------------------|----------------------------------|
| Dist. Tanker, 3000 Gallon | 2,608.00 | 600 | 4.35 | 43.5 |
| Dump Truck, Off Hwy., 65 Ton | 15,360.57 | 600 | 25.60 | 256.0 |
| Flatbed Truck, Gas, 3 Ton | 1,326.00 | 600 | 2.21 | 22.1 |
| Water Tank Trailer, 5000 Gal. | 1,364.53 | 600 | 2.27 | 22.7 |
| Dump Trailer, 20 C.Y. | 8,556.18 | 600 | 14.26 | 142.6 |
| Total amount | Assumption | One-way trips total | Number of days | |
| 22222 | Assume 20 cy per load | 2,222 | 600 | |

| Code | Vehicle Type | # of Employees/Day | One-Way Trips/Day | Miles per Trip |
|----------------|--------------|--------------------|-------------------|----------------|
| TRR East -0701 | 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
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 | 111244 | 8 | 600 | 24 | 48 |
| | | | | | |
| | | | | | |
| | | | | | |

miles was used.

Earthmoving/Paving Assumptions for

TRR East 07

| Code | <i>Daily</i> | | | | |
|----------------|-------------------------------------|-----------------------------|-----------------|-----------------|---------------------------------------|
| | Stripping or Grading (acres/day) | Borrow/Excavate (cy/day) | Dredge (cy/day) | Paving (sf/day) | Stripping or Grading (total acres) |
| TRR East -0701 | 0.621 | 7577.1 | 0.0 | 0.0 | 186.3 |
| | | | | | |
| | | | | | |
| | | | | | |

Note:

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

Total

| Borrow/Excavate (total cy) | Dredge (total cy) | Paving (total sf) |
|---------------------------------------|--------------------------|--------------------------|
| 2273135.0 | 0.0 | 0.0 |
| | | |
| | | |
| | | |

Jacobs Calculations

| Total # days/subpackage | Total # days/earthmoving -paving |
|------------------------------------|---|
| 600 | 300 |
| | |
| | |
| | |