

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

### **Colstrip Pond Closure and Remediation Workforce Profile**

DATE: 2-28-19

SOURCE: NRE Report Tables 5.2-8, 5.2-9, and 5.2-10

NOTE: FTE Numbers are indicated for job types for which 5 or more FTEs are needed

### **TALEN'S WORKFORCE PROFILE**

#### **I. CONSTRUCTION (2020 – 2029)**

##### SURVEYING

Professional Land Surveyor

Professional Land Surveyor Assistant

##### DEWATERING

Certified well driller

Laborer – Well Drilling Assistant

Laborer – Pump Installer

Laborers – Conveyance System Installer

##### DUST CONTROL

Water Truck Operator

Heavy Machinery Mechanic

Construction Laborer

##### EXCAVATION / BACKFILL

Excavator Operator

Articulated Truck Operator

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

##### TYPE IV CAP

Excavator Operator

Articulated Truck Operator: 10.18

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

Liner Installation, Surface Runoff Collection Installation Laborer: 50.9

##### TYPE III BOTTOM LINER

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

Dozer Operator  
Drum Compactor Operator  
Heavy Machinery Mechanic  
Construction Laborer  
Liner Installation, Surface Runoff Collection Installation Laborer

### RECLAMATION

Dozer Operator  
Heavy Machinery Mechanic  
Construction Laborer

## II. O&M (2030 – 2069)

### DEWATERING

Skilled Laborer

### INSPECTIONS

Environmental Scientist

### LEACHATE COLLECTION SYSTEM MAINTENANCE

Environmental Technician

### CAP MAINTENANCE

Heavy Equipment Operator  
Construction Laborer: 13.0

### SURFACE/STORM WATER MANAGEMENT

Construction Laborer

### PROJECT MANAGEMENT

Engineer/Project Manager

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

### ALTERNATIVE 1 WORKFORCE PROFILE

#### **I. CONSTRUCTION (2020 – 2029)**

##### SURVEYING

Professional Land Surveyor

Professional Land Surveyor Assistant

##### DEWATERING

Certified well driller

Laborer – Well Drilling Assistant

Laborer – Pump Installer

Laborers – Conveyance System Installer

##### DUST CONTROL

Water Truck Operator

Heavy Machinery Mechanic

Construction Laborer

##### EXCAVATION / BACKFILL

Excavator Operator: 7.84 Total

- Needed for pond work specifically: 4.81
- Needed for landfill specifically: 3.03

Articulated Truck Operator: 62.72 Total

- Needed for pond work specifically: 38.47
- Needed for landfill specifically: 25.25

Dozer Operator\*: 7.84 Total

- Needed for pond work specifically: 4.81
- Needed for landfill specifically: 3.03

Drum Compactor Operator: 7.80 Total

- Needed for pond work specifically: 4.8
- Needed for landfill specifically: 3.0

Heavy Machinery Mechanic: 17.25 Total

- Needed for pond work specifically: 10.58
- Needed for landfill specifically: 6.67

Construction Laborer: 17.25 Total

- Needed for pond work specifically: 10.58
- Needed for landfill specifically: 6.67

##### IN-SITU STABILIZATION / SOLIDIFICATION

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

Auger Operator: 12.4

Auger Assistant Laborer: 24.8

Cement / Mix Truck Operator: 12.4

### TYPE IV CAP

Excavator Operator

Articulated Truck Operator

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

Liner Installation, Surface Runoff Collection Installation Laborer: 59.8 Total

- Needed for pond work specifically: 48.9
- Needed for landfill specifically: 10.9

### TYPE III BOTTOM LINER

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

Liner Installation, Surface Runoff Collection Installation Laborer: 13.51 Total

- Needed for pond work specifically: 2.59
- Needed for landfill specifically: 10.92

### RECLAMATION

Dozer Operator

Heavy Machinery Mechanic

Construction Laborer

## II. O&M (2030 – 2069)

### DEWATERING

Skilled Laborer

### INSPECTIONS

Environmental Scientist

### LEACHATE COLLECTION SYSTEM MAINTENANCE

Environmental Technician: 21.0 Total

- Needed for pond work specifically: 16.7
- Needed for landfill specifically: 4.1

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

### CAP MAINTENANCE

Heavy Equipment Operator

Construction Laborer: 14.48 Total

- Needed for pond work specifically: 11.98
- Needed for landfill specifically: 2.5

### SURFACE/STORM WATER MANAGEMENT

Construction Laborer

### PROJECT MANAGEMENT

Engineer/Project Manager

### ALTERNATIVE 2 WORKFORCE PROFILE

#### **I. CONSTRUCTION (2020 – 2029)**

##### SURVEYING

Professional Land Surveyor  
Professional Land Surveyor Assistant

##### DEWATERING

Certified well driller  
Laborer – Well Drilling Assistant  
Laborer – Pump Installer  
Laborers – Conveyance System Installer

##### DUST CONTROL

Water Truck Operator  
Heavy Machinery Mechanic  
Construction Laborer

##### EXCAVATION / BACKFILL

Excavator Operator Total: 16.68

- Needed for pond work specifically: 10.66
- Needed for landfill specifically: 6.03

Articulated Truck Operator: 133.48 Total

- Needed for pond work specifically: 85.26
- Needed for landfill specifically: 48.21

Dozer Operator: 16.68 Total

- Needed for pond work specifically: 10.66
- Needed for landfill specifically: 6.03

Drum Compactor Operator: 16.8 Total

- Needed for pond work specifically: 10.7
- Needed for landfill specifically: 6.1

Heavy Machinery Mechanic: 36.71 Total

- Needed for pond work specifically: 23.45
- Needed for landfill specifically: 13.26

Construction Laborer: 36.71 Total

- Needed for pond work specifically: 23.45
- Needed for landfill specifically: 13.26

##### TYPE IV CAP

Excavator Operator

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

Articulated Truck Operator

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

Liner Installation, Surface Runoff Collection Installation Laborer: 49.6 Total

- Needed for pond work specifically: 34.2
- Needed for landfill specifically: 15.5

### TYPE III BOTTOM LINER

Dozer Operator

Drum Compactor Operator

Heavy Machinery Mechanic

Construction Laborer

Liner Installation, Surface Runoff Collection Installation Laborer: 18.06 Total

- Needed for pond work specifically: 2.59
- Needed for landfill specifically: 15.46

### RECLAMATION

Dozer Operator

Heavy Machinery Mechanic

Construction Laborer

## II. O&M (2030 – 2069)

### DEWATERING

Skilled Laborer

### INSPECTIONS

Environmental Scientist

### LEACHATE COLLECTION SYSTEM MAINTENANCE

Environmental Technician: 22.6 Total

- Needed for pond work specifically: 16.7
- Needed for landfill specifically: 5.8

### CAP MAINTENANCE

Heavy Equipment Operator

Construction Laborer: 12.16 Total

- Needed for pond work specifically: 8.64
- Needed for landfill specifically: 3.52

# POWER CLEANUP JOBS STUDY

## WORKFORCE PROFILE

### SURFACE/STORM WATER MANAGEMENT

Construction Laborer

### PROJECT MANAGEMENT

Engineer/Project Manager