



City of Weyburn Landfill Upgrades 2018

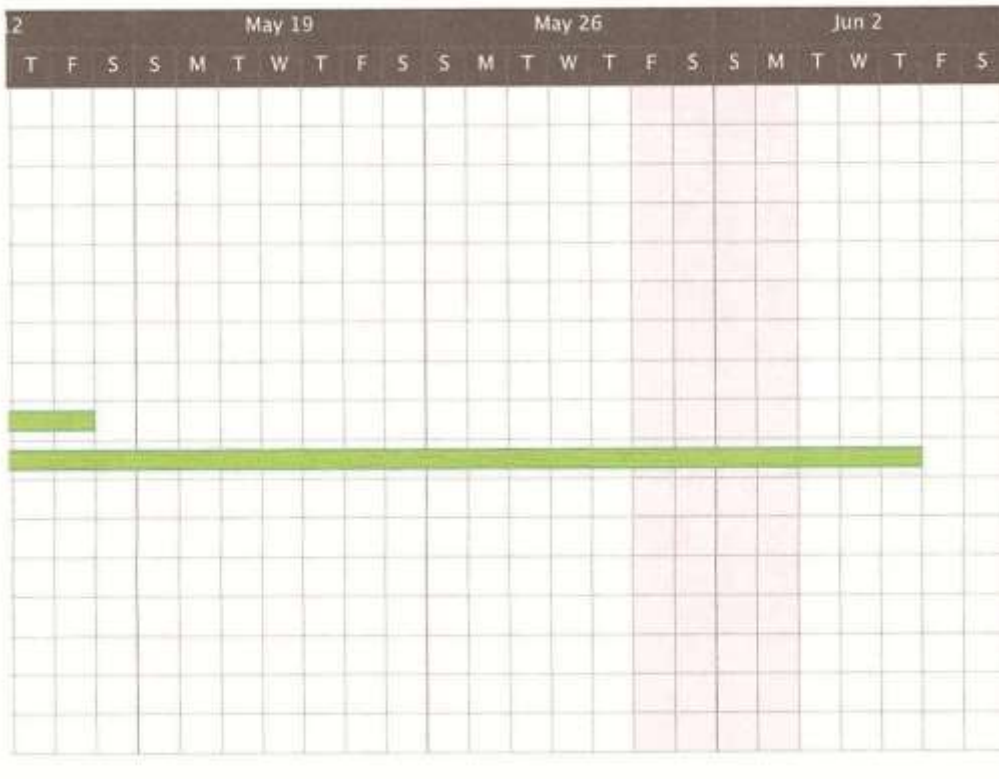
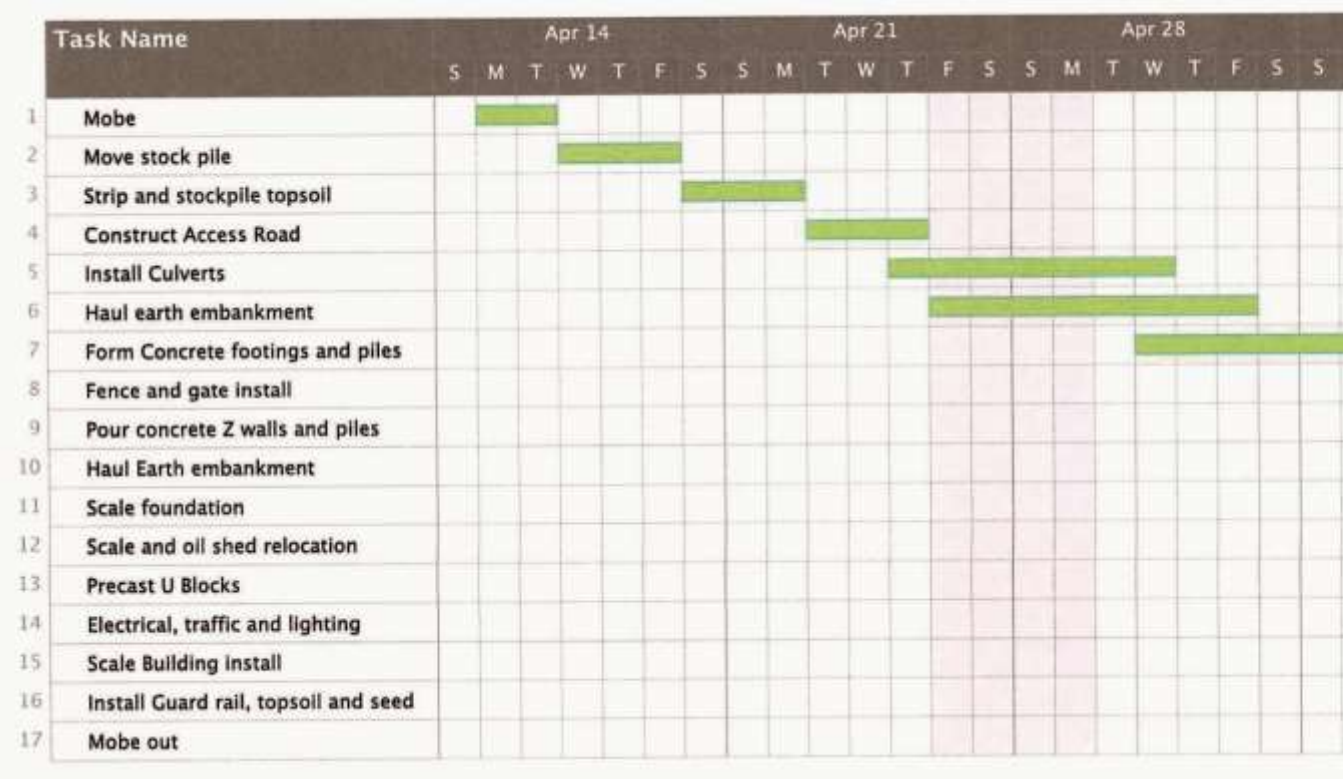
Project Overview



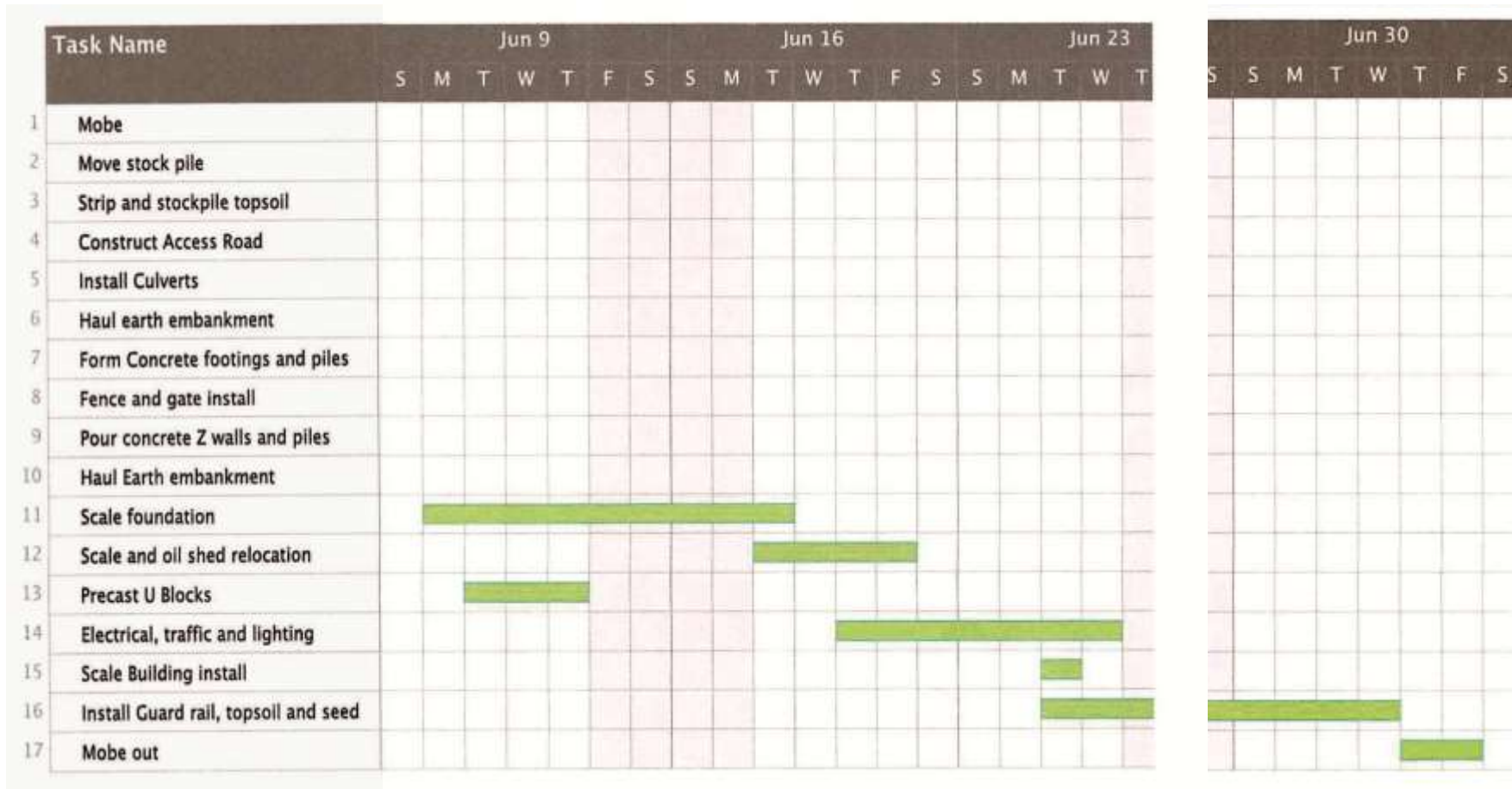
Project Scope

- ~ 700m of access roads
- Access gates
- Z-walls and U-bays
- Scale upgrades: software, signalling, cameras
- New scale building
- Signage

Project Schedule



Project Schedule



Design, Operations and Closure Plan (DOCP)

Study Purpose:

- Assess waste management opportunities available at Weyburn Landfill.
- Identify the long-term waste management needs of Weyburn.
- Comply with regulatory requirements, integrate progressive closure policies.
- Reduce operating costs.
- Present recommendations for optimizing landfill expansion design.
- Establish a long term strategy for improving environmental controls, provide for future development of the Weyburn Landfill.

5 Year Plan Highlights

- Detailed Filling Plan
- Relocate entrance, scale, oil recycling areas
- Update landfill tipping fees
- Add U-Bays for recycling
- Construct Z-Wall residential drop-off area
- Plan for wood, yard and garden wastes
- Define burn pit location
- Proposed composting program
- Management strategy for concrete
- Identify cover soil borrow and stockpile locations
- Recycling program for plastic cable waste
- Perimeter leachate collection and drainage
- Construct leachate retention pond, hydro vac disposal area

Detailed 5 Year Plan Schedule: Weyburn Landfill

| Item | Year | Task | Task # |
|------|-------------|--|--------|
| 1. | 2017 | Update landfilling operations with RIG cover system. | 1 |
| 2. | 2017 | Regrade west, north and east slopes. | 1 |
| 3. | 2017 | Begin fill in Phase 1 – Lift 1 and the carry on with DOCP fill plan. | 1 |
| 4. | 2017 | Detailed design of new entrance relocated scale and all facilities on the south side of the landfill including the RDO area. | 2 |
| 5. | 2018 | Relocate site entrance and scale, and construct secondary access. | 2 |
| 6. | 2018 | Start charging updated tipping fees. | 3 |
| 7. | 2018 | Add U-Bays for recycling. | 4 |
| 8. | 2018 | Construct Z-Wall residential drop-off area. | 5 |
| 9. | 2018 | Define Wood Waste and Yard & Garden waste strategy. | 6 |
| 10. | 2018 | Relocate oil recycling area. | 7 |
| 11. | 2018 | Define burn pit location. | 8 |
| 12. | 2018 | Conduct feasibility study for recycling plastic cable waste. | 9 |
| 13. | 2019 | Implement recycling plan for plastic cable waste. | 9 |
| 14. | 2019 | Identify cover soil excavation and stockpile locations. | 10 |
| 15. | 2019 | Define broken concrete storage area and management strategy. | 11 |
| 16. | 2020 | Install perimeter leachate collector. | 12 |
| 17. | 2020 | Install perimeter drainage ditch. | 12 |
| 18. | 2020 | Complete detailed design for leachate holding pond and pump station, as well as stormwater retention wetland. | 13 |
| 19. | 2020 | Construct leachate holding pond. | 13 |
| 20. | 2020 | Construct stormwater retention wetland. | 13 |
| 21. | 2020 | Construct Hydro vac-truck disposal area. | 14 |
| 22. | 2020 | Construct compost pad and initiate windrow composting. | 15 |
| 23. | 2021 | Detailed design of Phase 1 closure. | 16 |
| 24. | 2022 | Complete closure of Phase 1. | 16 |

Redesign Objectives

Environmental

- Divert waste, decrease contamination and extend lifespan of facility
- Improve monitoring and management of waste storage
- Expand recycling programs, sustainability efforts

Social

- Change behaviors, increase public awareness of appropriate waste disposal methods and best practices
- Engage stakeholders, improve accessibility

Economic

- Innovate to improve operations, increase efficiency
- Implement full-cost accounting to address not just operational costs, but proper decommissioning

Supplement to Bid

| Item | Manufacturer | Supplier |
|------------------|--------------------------|---------------------------------|
| Precast Concrete | Souris Valley Industries | Souris Valley Industries |
| Electrical | | EECOL Electric |
| Concrete | Swayzes Concrete Ltd. | Swayzes Concrete Ltd. |
| Culvert and Gate | Canada Culvert | Canada Culvert |
| Load Cell Supply | | Lajord Scales Weighbridge |
| Geotextiles | | Nilex Civil Environmental Group |

| Trade | Name of Subcontractor |
|----------------------|------------------------------|
| Legal Surveyor | Altus Geomatics |
| Concrete Contractor | Safrane Construction |
| Building Mover | Garnet Lucyk Building Movers |
| Electrician, Cameras | Prairie Lightning Electric |

Personnel and Equipment

PERSONNEL

| Labour Classification | Number | Total Man-Days |
|--------------------------|--------|----------------|
| Equipment Operators | 6 | 50 |
| Site Supervisors | 1 | 50 |
| Project Manager | 1 | 65 |
| Electricians | 3 | 14 |
| Surveyors | 2 | 4 |
| Truck Drivers, Labourers | 8 | 35 |

EQUIPMENT

| Description | Total Days |
|---------------------|------------|
| 2 Rock Trucks | 8 |
| 2 Excavators | 28 |
| 2 Bulldozers | 24 |
| 5 Semi End Dumps | 18 |
| 2 Sheepfoot Packers | 24 |
| Other Misc | 30 |

Project Cost Summary

| | |
|------------------------------------|-----------------|
| TOTAL 1.0 – GENERAL REQUIREMENTS: | \$ 7,500.00 |
| TOTAL 2.0 – SITE WORK: | \$ 866,925.00 |
| TOTAL 3.0 – CONCRETE: | \$ 228,155.28 |
| TOTAL 4.0 – METALS: | \$ 22,560.00 |
| TOTAL 5.0 – ELECTRICAL: | \$ 91,200.00 |
| TOTAL BID: (excluding GST and PST) | \$ 1,216,340.28 |
| Goods and Services Tax: | \$ 60,817.01 |
| Provincial Sales Tax: | \$ 72,980.42 |



Questions?



