Southwest Calgary Ring Road

KGL and the Environment

KGL is committed to protecting the environment during construction and to reduce impacts we will:

- Implement specific Environmental Construction Operation Plans (ECO) and Environmental Management Systems (EMS)
- Provide training for workers regarding our environmental protection plans
- Provide task-specific training for employees or subcontractors involved in high-risk activities



The KGL document system reduces paper by using an electronic submission process and using iPads to replace project drawings. Not only does this

• Complete green light checklists identifying potential environmental impacts and mitigation measures before starting work in an area

2017 Environmental Management Overview



Land Management

All environmentally-sensitive areas, including waterbodies, wetlands and areas at risk for erosion, will be identified, monitored and protected using the following methods:

- Vegetation buffers
- Silt fencing
- Temporary seeding or protection blankets
- Use of dikes, berms or ditches to intercept and divert runoff
- Separate stockpiles for different soil types
- Stockpile topsoil for reclamation
- Vegetation management including:
 - » Weed inspections and control
 - » Mulching
 - » Seeding
 - » Minimizing disturbed area



Spill Management

- Focus on spill prevention and response including:
 - » Safe operation of vehicles and equipment
 - » Best practices for fuel transfer, refueling and maintenance
 - » Identifying and preparing spill response materials
 - » Equipment inspections and preventative maintenance
 - » Housekeeping (safe chemical storage, waste management, etc.)
- Maintain a supply of easily accessible clean-up supplies
- Clean-up and management of pre-existing contaminated sites
- Report all spills to the proper authorities



Waste Management

- Project-wide waste recycling programs
- Materials will be collected, categorized and recycled where appropriate
- Waste will be handled, stored and disposed of in accordance with

*All requirements for wetland compensation as determined by Alberta *Environment and Parks will be met*



Water Management

- Water sampling
- Build new channels to match the existing channels, including cross sections, curvature, morphology and slope
- No vehicles or equipment to cross buffers or enter waterbodies



Air Management

- Dust monitoring and suppression:
 - » Dust mitigation activities including watering and dust palliatives
 - » Reduction of vehicle speeds during dry or windy periods
 - » Use of seeding tackifiers
- Maintain equipment in good working order

The Regulatory Structure



An environmental assessment was completed identifying potential impacts and mitigation measures



- **Noise Management**
- Adhere to local noise bylaws or apply for an exemption
- Limit high noise activities to project hours, which are typically:
 - » Mondays to Saturdays 7:00 a.m. to 10:00 p.m.
 - » Sundays and holidays 9:00 a.m. to 10:00 p.m.

*There may be changes to the schedule depending on the nature of construction

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Animal Management

- Wildlife identification cards for field observations
- Wildlife crossings preserved at key locations
- Site inspections with biologists



- Implement specific Environmental Construction Operation Plans (ECO) and Environmental Management Systems (EMS)
- Also applying for a number of regulatory permits:
- » Elbow River Realignment Water Act, Fisheries Act
- » Fish Creek Realignment Water Act, Fisheries Act
- » Cullen Creek Water Act, Fisheries Act
- » Wetlands Water Act
- » Applicable permits from the municipal, provincial and federal governments
- All permits subject to regulatory consultation
- Excavations are being monitored for paleontological and archaeological finds



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