Meet Glen Duthie, Our General Manager

“A mining has provided a great livelihood and exciting career for me, as it did my father. I don’t think I would change a thing.”

A Long History in Mining
Glen Duthie is General Manager of Quintette Operations. Born into a mining family in Trail, B.C., Glen was destined for a career in mining. At just 15 years old he had his first mining position: a summer job at Craigmont Mines in southeast B.C. Between that summer and graduating from UBC with an Engineering Degree, Glen held 9 more summer mining jobs and realized his passion for the industry.

After graduation, Glen joined Cominco and worked underground at the Sullivan Mine prior to being transferred to Pine Point Mines in the Northwest Territories. He then joined Denison Mines, working at the original Quintette mine and later worked for Placer Dome before joining Teck. Glen held many positions over the years, beginning his career as a Shift Boss, General Foreman, Senior Mine Engineer, and later working as a General Superintendent, Mine Manager and, today, General Manager.

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In 2011 for example, we began the process of dismantling and removing the 13 kilometre long overland conveyor that used to transport raw coal from the Mesa and Wolverine pits to the Quintette plant site. That conveyor is approximately 25% dismantled; the rest of the dismantling will be completed later this year.

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Our Approach to Environmental Monitoring
Welcome to the second edition of the Quintette Connector. The focus of this issue are the measures we are incorporating into our Quintette planning to help ensure the environment is maintained and wildlife are protected throughout the proposed project. We have sought, and will continue to seek, input from First Nations, community residents and local government on project design and construction activities. This newsletter is just one of the ways we will keep you informed throughout the project.

Ray Proulx, our Community and Aboriginal Affairs Liaison, is also available at our local office in Tumbler Ridge to answer any questions or concerns you may have about the project. Ray can be reached at 1.250.242.3824 or toll-free at 1.877.544.3824. All editions of the Quintette Connector are also available online at www.teck.com/quintette.

1. Gathering the baseline environmental data, which provides an environmental “snapshot” prior to the project.
2. Predicting how the environment will change in the future based on the data collected.
3. Consulting with the community to gather feedback to help inform mitigation measures.
4. Designing processes to monitor the quality of the environment.

Based on the outcome of the community input, monitoring program and environmental trends, we are able to ensure we have the appropriate mitigation initiatives as part of our mine planning.

Our Approach to Environmental Monitoring
Preserving the Aquatic Environment

Many of the environmental studies we have undertaken for the proposed re-start of Quintette are focused on ensuring that the surrounding waterways remain healthy for both wildlife and people, specifically the Murray River and Babcock Creek.

In order to protect the health of these waterways we have developed a Water Management Plan that focuses on three key objectives:

1. Prevent clean water from coming into contact with the waste rock areas.
2. Ensure water that does contact waste rock is collected in sedimentation ponds and collection channels.
3. Divert sedimentation pond water away from the water quality of the Murray River.

Dust is a common side effect of truck and shovel mining, but one that can be addressed through best practices. ARD and selenium occur naturally as part of the rock weathering process, but can be worsened by mining and construction. To prevent this, we use our best efforts to avoid disturbing potentially acid-generating rock in the first place. When this isn’t possible, we blend material with non-acid-generating rock to neutralize the acidity. We can also lessen the potential for selenium getting into the watershed by backfilling pits with waste rock and allowing the water on site to flood the pit and remain contained.

Minimizing Dust to Preserve Air Quality

Dust is a common side effect of truck and shovel mining, but one that can be addressed through the right steps. Our Air Quality and Dust Control Plan incorporates a number of dust suppression measures, including:

- Spraying a sealant onto the coal in the conveyor or rail car to keep the dust blowing away.
- Apply sealants to material piles and roadways.
- Spraying water on roadways and when handling dusty materials.
- Storing and handling materials indoors when possible.

Housing Study Update

As mentioned in Volume 1 of the Quintette Connector, in 2011 we commissioned two housing studies to help us determine the best option with which to house our Quintette workforce, expected to be approximately 400 people. We are currently in the process of evaluating the results of the second, more comprehensive, study to determine the best options for housing workers, should the project proceed.

Protecting Woodland Caribou

One of the key issues associated with resource development in northeast British Columbia is the potential impact that projects may have on the habitat important to woodland caribou. Woodland caribou are listed on the federal Species at Risk Act as “Threatened” and are considered at risk in B.C.

Caribou are also extremely important to Aboriginal communities, where they have been fundamental to their way of life for thousands of years. With all of this in mind, we have made the protection of caribou one of our top priorities in our project planning.

In order to minimize any potential effect on caribou from our proposed project we are developing a strategic mitigation plan that includes several tactics:

- Land Use Planning Focused on Caribou Protection
  Linear, human-made corridors such as roads or culverts can make it easier for predators like wolves to hunt the woodland caribou. We can implement land use planning that avoids creating more linear corridors wherever possible and help ensure that caribou aren’t put at greater risk from predators.

- Best Practices for Habitat Management
  We will minimize predators’ use of existing linear corridors by leaving them covered with snow in the winter, blocking them when not in use, and reclaiming them as soon as possible.

- Replanting Reclaimed Areas
  We can convert previously reclaimed areas with species that are less attractive to deer and elk will mean fewer predators that could impact caribou.

Other options we are looking at to help protect the woodland caribou include:

- Increasing our employees’ knowledge of caribou so they can take personal actions to support caribou protection;
- Posting signage at our site warning that the area is frequented by caribou and to be vigilant when on foot and in a vehicle so as not to harm or frighten the animals;
- Limiting access to the site;
- Limiting or prohibiting activities in the surrounding area that could be disruptive or harmful to caribou, such as hunting.

We take our responsibility to protect the woodland caribou very seriously and will work with First Nations, communities and other stakeholders to address this important issue.
Preserving the Aquatic Environment

Many of the environmental studies we have undertaken for the proposed re-start of Quintette are focused on ensuring that the surrounding waterways remain healthy for both wildlife and people, specifically the Murray River and Babcock Creek.

In order to protect the health of these waterways we have developed a Water Management Plan that focuses on three key objectives:

1. Prevent clean water from coming into contact with the waste rock areas.
2. Ensure water that does contact waste rock is collected in sedimentation ponds and collection channels.
3. Divert contact water to sedimentation ponds and collection channels until the water quality is acceptable to be released. At this point we are able to decommission the ponds and channels, thereby minimizing the watershed disturbance to fish habitat.

Should we resume mining at Quintette, we will protect nearby aquatic health by incorporating best practices into the design and construction of our waste rock dumps to prevent acid rock drainage (ARD) and the leaking of selenium into the watershed.

ARD and selenium occur naturally as part of the rock weathering process, but can be worsened by mining and construction. To prevent this, we do our best to avoid disturbing potentially acid-generating rock in the first place. When this isn’t possible, we blend that material with non-acid-generating rock to neutralize the acidity. We can also lessen the potential for selenium getting into the watershed by backfilling pits with waste rock and allowing the water on site to flood the pit and remain contained.

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For the past year, our environmental staff have been gathering data for a comprehensive environmental monitoring program to collect data that will augment the existing environmental data that has been collected in the Quintette region since 1983. This monitoring process involves a number of steps:

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