

Bellanaboy Bridge Site

Report to the Project Monitoring Committee

14th June 2006

Works undertaken

- No construction activities were carried out during the month of May.
- Environmental monitoring works continue.
- Geotechnical monitoring works suspended since 20th March.
- The fully automated surface water treatment equipment is treating silt laden water from the excavated area to the required level.
- The automated weir structures (to measure flow at the surface water monitoring locations upstream and downstream of the settlement ponds) continue to operate.

Outlook from June 2006 onwards

- Construct foundations and erect shed for Axonics water treatment plant extension.
- Continue with ongoing environmental care, monitoring & maintenance works.
- Operate surface water treatment equipment to deal with surface water residing on the terminal footprint and to mitigate against run off erosion of fine silt into watercourses.
- Attempt to recommence Geotechnical monitoring.
- Continue to explore additional water treatment processes.

ENVIRONMENTAL REPORT

Dust – The results for the monitoring period 29th March 2006 to 03rd May 2006 at the monitoring locations (D1 to D4) were 20, 107, 315 and 74 mg per m² per day averaged over a 30 day period. The Consent Limit is 350 mg per m² per day averaged over a 30

day period. The results for the monitoring period 04th May to the 02nd June 2006 will be presented in next month's report.

Fuel – May's fuel delivery figures to the Bellanaboy Bridge Terminal site are not yet available. These will be reported in next month's report.

Noise – No noise monitoring was undertaken (no construction work undertaken).

Traffic – There were no HCV (heavy construction traffic) traffic movements on or off site during the reporting period.

Waste – Two skips of domestic refuse (canteen waste, etc.), were removed off site during May. No recyclable or hazardous waste was removed. The effluent holding tanks were emptied of approximately 2.5m³ (25,000 litres or 5,500 gallons) during May. Approximately 1.65m³ (1,650 litres or 363 gallons) were removed from the on site portaloos in the last month.

Water quality – All monitoring and sampling locations were accessible for download, recalibration and reinstallation during the month of May. The Phosphate equipment has been removed and sent to the manufacturer in Italy for repair. In the meantime and until the problem has been resolved a composite sampler has been deployed to extract samples for lab analyses. The weir structures continue to log data and this data can be accessed both manually and via telemetry. All other monitoring equipment continues to operate without fault.

As a result of the equipment problems at SP1 (the PO₄ meter) grab samples were taken daily. A summary of the main surface water parameters

measured for the grab sampling events in May at SP1 (range of lowest to highest) are presented below:

pH

4.8 – 7.5

Suspended solids (mg/l)

<4 – 29

Phosphate ($\mu\text{g/l P}$)

<10 - 79

Conductivity ($\mu\text{S/cm}$)

110 - 249

Turbidity (mg/l)

<4 - 23

Nitrate (mg/l NO_3)

<0.44 – 0.616

Monthly graphs for TSS, Orthophosphate (only grab samples results are provided due to equipment malfunction) and Turbidity are attached for the month of May. Action and Trigger Levels presented on the graphs are described in Section 7.0 of the Environmental Monitoring Plan.

Groundwater samples were taken and down hole monitoring equipment was downloaded for the month of May. A summary of the main groundwater parameters measured (range of lowest to highest):

pH

5.6 – 6.5

Conductivity ($\mu\text{S/cm}$)

210 – 706

Nitrate (mg/l NO_3)

<0.44 – 4.109 (MEL BR4a)

Phosphate ($\mu\text{g/l P}$)

<10 – 511

Total Dissolved Solids

<4 – 8782 (MP10a)

Vibration monitoring – No vibration monitoring took place during the last reporting period.

Complaints – There were no construction activity related complaints logged with either SEPIL or RBL during the month of May. Protest action at the main gates remained.

Incidents – There were no environmental notifications or exceedances during the reporting period. One incident from February remains open.

Feb Incident: Equipment Failure – The PO_4 analyser started to produce negative results. The results were forwarded to the manufacturer for review.

Status – Manufacturers technician arrived on site in mid-May and removed the monitor back to manufacturer. A composition sampler was deployed

Necessary Environmental Works

- Continuous drainage maintenance
- Continuous operation of on-site surface water treatment plant.
- Remove of all waste and effluent from site on an as needs basis.
- Inspect, repair (when required) and recalibrate all in situ monitoring equipment.
- Monitor/sample and download water (surface and ground) quality monitoring devices.