CoA/ Source	Description	Parameters	Location	Frequency	Reporting	Responsibility	Reference
Noise Monitoring							
E11 & E7	Operational Noise review	LAeq, LA10, Aa90 and LA_{Max} Noise levels shall not exceed criteria stipulated in CoA E7.	**2 locations** ▪ Blackmans flat – Dwelling Noon Street ▪ Wallerawang Refer to **Error! Reference source not found.**	Once	Report to be to be submitted to DP&I within 60 days of commencement of operation	Specialist Consultant on behalf of Delta Electricity	OEMP Noise Sub Plan
E11 & E12	Implement ongoing noise monitoring program for project	LAeq, LA10, La90 and La_{Max}	**2 locations** ▪ Blackmans flat – Dwelling ▪ Noon Street - Wallerawang Refer to **Error! Reference source not found.**	6 monthly - April and November each year	Report will be produced at the end of each sampling period.	Specialist Consultant on behalf of Delta Electricity	OEMP Noise Sub Plan
Groundwater Monitoring							
E15 (a) (B)	Schedule for Periodic monitoring for Groundwater quality monitoring	Analytical suite- PH, conductivity, Alkalinity, CI, So4, TPS, DO (in field) Temperature, turbidity, Nox, TP, TKN and total metals and Total Filtered Metals Depth and Flow[1]	Refer to **Error! Reference source not found.** MPGM4 Series for Lamberts North	Monthly for first 12 months to establish baseline data, then every 3 months thereafter	Data collected monthly for first 12 months than 3 monthly thereafter. Groundwater Review report (annually)	NATA accredited Laboratory and specialists	OEMP Groundwater Sub Plan

[1] Flow will be recorded using a qualitative approach, unless there is any significant change in groundwater level as measured by monthly depth measurements, then flow calculations will be undertaken and a rerun of the groundwater model considered

CoA/ Source	Description	Parameters	Location	Frequency	Reporting	Responsibility	Reference
Surface water monitoring							
E16 (a)	Schedule for periodic monitoring of surface quality monitoring	Analytical suite- PH, conductivity, Alkalinity, CI, So4, TPS, DO (in field) Temperature, turbidity, Nox, TP, TKN and total metals and Total Filtered Metals Depth and Flow[2]	Refer to **Error! Reference source not found.** Neubecks Creek ▪ **LDP1**- at upstream Discharge point ▪ **NC1** – mid stream ▪ **WX22**Downstream	▪ **LDP1-** Monthly (Year 1) including two rainfall events Quarterly thereafter ▪ **NC1** Monthly (Year 1) Quarterly thereafter for remaining life of the project ▪ **WX22** Monthly (Year 1) Including two rainfall events Quarterly thereafter for remaining life of the project.	Data Collected monthly for first 12 months, then quarterly thereafter. Surface Water Quality will be reported as part of the Ecological Monitoring Program.	NATA Accredited Laboratory and specialist.	OEMP Surface sub plan and Ecological Monitoring Program
Ecological monitoring program							

[2] Flow will be recorded using a qualitative approach, unless there is any significant change in groundwater level as measured by monthly depth measurements, then flow calculations will be undertaken and a rerun of the groundwater model considered.

CoA/ Source	Description	Parameters	Location	Frequency	Reporting	Responsibility	Reference
B7	Aquatic Ecology – Macro-invertebrates Aquatic Habitat	▪ Macro invertebrate Families ▪ EPT index ▪ SIGNAL2 Index ▪ Habitat and Riparian Assessment	Neubecks Creek – refer to **Error! Reference source not found.** ▪ **NCR1** downstream of surface water discharge point (adjacent to Bore D7) ▪ **NCR2** Downstream of gauging site	▪ Autumn and Spring (Year 1) ▪ Spring only (Years 2,3,4 & 5)	Report will be produced for: ▪ Autumn and Spring (Year 1) ▪ Spring only for remaining 4 years.	Delta and qualified ecologist specialist	Ecological Monitoring Program November 2012
Air quality monitoring program							

CoA/ Source	Description	Parameters	Location	Frequency	Reporting	Responsibility	Reference
D3 (d) E18	Dust impacts	▪ DECC ***Amenity based Criteria for dust Fallout is a maximum total Dust Deposition of 4mg/m2/month (annual) ▪ TEOM – for measuring PM_{10} ▪ Ambient monitor (high volume) _ AQMS measures PM_{10} and PM 2.5 ▪ TSP- calculated from dust bottles.	Refer to **Error! Reference source not found.** **Dust Gauges:** **No# 19, 22, 23** – Castlereagh Highway between Boulder road and Blackmans flat Village **No # 20**- Cnr Boulder Rd/ Castlereagh Highway **No# 21-** MP Entrance on Boulder Road **Other resources** ▪ Blackmans Flat AQMS* ▪ TEOM** ▪ Mt Piper Metrological Station	Monthly as part of Delta's Existing monitoring program	Monthly data collection Air quality review Report (annually)	Delta and qualified specialist	OEMP Air Quality sub Plan.