

DIVISION 35: PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA —

[Supplementary Information No A44.]

Question: Mr C.J. Tallentire asked: How much is spent on meeting environmental standards?

Answer:

	Annually
Personnel Salaries	
HSE Manager (assumed 50% cost share)	Approx \$70,000
Environmental Officer	Approx \$80,000
Programs and Projects	
Marine Water Quality Monitoring	\$30,433
Marine Sediment Quality Monitoring	\$50,137
Air Quality Monitoring	\$30,000
Seagrass Research	See details below
Shoreline – in collaboration with CoGG and DPI & NACC	\$50,000
CV4 Covering Project – Phase 1 - project design component only	\$75,000
TT4/TT501 Wastewater Project	\$204,000
Environmental costs associated with maintenance dredging	\$200,000
PM10 air quality inlets	\$11,000
Consultancy	
Environmental Consultancy General	\$104,700
Environmental Risk Management	\$72,861
Other	
Annual Environmental Licence	\$20,199
Emergency Oil Spill Response	\$76,960
TOTAL	\$1,075,290 (not including seagrass research cost)

Seagrass Research Project:

GPA commissioned 2 seagrass research projects. These are:

Project 1: Recovery of seagrass following the Geraldton Capital Dredging Project

GPA engaged CSIRO to carry out a 3 year seagrass recovery project to monitor the recovery of seagrass in the area following the capital dredging campaign associated with the 2002/03 Port Enhancement Project. The Project cost approximately **\$300,000** and concluded in 2007.

Project 2: Collaborative Seagrass Shading Research Experiment (SRFME and ECU)

GPA joined forces with the Department of Environment and Conservation (DEC), the Strategic Research Fund for the Marine Environment (SRFME) and Edith Cowan University (ECU) in a \$600,000 seagrass research experiment conducted in Jurien Bay. GPA's contribution was also approximately **\$300,000**. The experiment involved shading of the dominant mid-west perennial seagrass *Amphibolis griffithii* at varying intensities and for varying durations to assess the deterioration of the species to prolonged light reduction (to replicate the effects of dredging). The team then monitored the recovery of the grasses to determine their ability to recover and rate of recovery. The project concluded in 2009.

GPA's HSE Manager, Michael Mulligan led the Project 2 team. Costs for this aspect have not been included in this email.

