

ETP COMMUNITY LIAISON COMMITTEE

EIP ACTION PLAN PROGRESS - AUGUST 2006

ACTION NO.	ACTIONS	PERSON RESPONSIBLE	DUE DATE	STATUS	% COMPLETE	COMMENTS	LAST PRESENTATION
1. Influencing Incoming Raw Sewage Quality and Quantity							
1.1	CARRY OUT INFLOW REDUCTION STUDY TO ACHIEVE 12% REDUCTION IN INFLOW BY 2012	Chris Williams	May-04		100%	Complete	22 April 2004 by Geoff Gardiner
1.2	CARRY OUT TRADE WASTE LOAD REDUCTION STUDY	Chris Williams	May-04		100%	Complete	22 April 2004 by Geoff Gardiner
1.3	CARRY OUT STUDY TO ASSESS COLOUR SOURCES, IMPACTS & OPTIONS FOR REDUCING EFFLUENT COLOUR	Lidia Harvey	Jun-06		60%	Working with retail water companies and have identified non-compliant trade waste customers. Limited colour reduction possible from Trade Waste customers. Developing a works program with RWC to develop options for resolving the issue including reviewing the standard for colour. Also awaiting results of CSIRO outfall plume study to determine extent of plume visibility reduction possible by reducing effluent true colour.	
1.4	PRODUCE A VIRTUAL TOUR OF ETP	Christine Gibbs	Jun-04		100%	Complete	
2. Sewage Treatment Process Control							
2.1	CARRY OUT TERTIARY TREATMENT UPGRADE	Paul Pretto	Jun-08		na	Work deferred pending outcomes of the Eastern Water Recycling Scheme feasibility study. This study has now been presented to State Government and Melbourne Water anticipates further directions in the coming months. In the meantime the ETP tertiary upgrade has been subject to a preliminary Department of Treasury and Finance review process (called a Gateway Review). This review identified a number of actions for Melbourne Water to facilitate project approval by DTF and these actions are currently being addressed. Melbourne Water is also preparing to undertake tertiary treatment equipment technology trials to identify the most efficient type of effluent filtration and disinfection for ETP.	Brian Bayley presented on the EWRS on 29th June 2006

2.2	CARRY OUT AMMONIA REDUCTION WORKS	Michael Harding	Jun-07		Constuction 30% complete for upgrade of existing tanks, Functional design work complete for new tanks	Works in existing tanks scheduled for completion in 2007. Additional tanks to be completed by late 2010.	
2.3	WORK WITH SEW TO ENSURE COMPLIANCE OF THEIR TREATMENT PLANTS	Mark Lynch	Ongoing		na	SEW provide a monthly report detailing plant compliance.	
	CONDUCT REGULAR OUTFALL SHUTDOWNS TO CHECK FOR LITTER IN MANHOLES	Charmaine Quick	Ongoing		na	Shutdowns no longer performed to check for litter in manholes. Daily beach inspections are used instead. Melbourne Water has trialled installation of litter baskets in SEO to determine how much litter is present. Trialling of different types of litter basket is continuing.	
	CONDUCT CHECKS OF RECYCLED WATER CUSTOMERS FILTERS FOR LITTER DURING FILTER CLEANS	Leo Bevacqua	Ongoing		na	South East Water now manage recycled water customers.	
2.4	CARRY OUT SEWAGE TECHNOLOGY RESEARCH	Peter Scott	Ongoing		na	Produce annual report and report annually to the CLC.	

2.5	DEVELOP A QUALITY CONTROL MONITORING PROGRAM	Mark Lynch	Nov-04		100%	HACCP Plan was certified by Lloyds Quality Register on 7 March 2005.	
2.6	REPORT ON PROPOSED UV DISINFECTION SYSTEM	Chris Williams	Nov-04		100%	Complete	
3. Effluent Disinfection							
3.1	DISINFECT EFFLUENT TO MEET EPA CLASS A GUIDELINES	Paul Pretto	Jun-08			See Action 2.1	
3.2	MAINTENANCE OF MAJOR HAZARD FACILITY LICENCE	Gerald Fitzgibbon	Ongoing		na	Licence obtained in 2003. Ongoing audits occur from WorkCover. Progressing on Re licencing in 2007.	17 June 2004 by Mike Smith
4. SE Outfall Effluent Disposal							
4.1	MONITOR IMPACTS AT SEO AND REPORT PUBLICLY ON OUTCOMES	David Gregory	Ongoing		na	3rd phase monitoring program commenced January 2005 and due for completion in June 2007.	R Molloy CSIRO 2005
4.2	REPORT ON DIFFUSER DESIGN, MIXING ZONE OUTCOMES, LOCATION AND ALIGNMENT OF OUTFALL EXTENSION.	Peter Bishop	Dec-06		30%	Melbourne Water is conducting further investigations of the environmental impact and public health risks associated with the current discharge and investigating how reductions in the discharge volume (by further recycling) and improvement in effluent quality (by ETP upgrades) will improve the receiving environment. These investigations are required by EPA Victoria and must be complete by 30th September 2006. Outcomes from these studies is essential to progress this action.	
5. Water Recycling							
5.1	CARRY OUT EASTERN REGION STUDY	Gordon McFarlane	30-Dec-03		100%	Complete. Information being used to support development of specific projects led by South East Water.	22 April 2004 by Geoff Gardiner
5.2	IMPLEMENT EASTERN REGION STUDY OUTCOMES	Gordon McFarlane	Ongoing		na	Information being used to support development of specific projects listed in Our Water Our Future and Water Plans.	
5.3	COMPLIANT ENVIRONMENT IMPROVEMENT PLANS FOR ALL RECYCLED WATER CUSTOMERS	Mike Smith	30-Jun-04		100%	All plans have been drafted and Melbourne Water has transferred the management of all South East Outfall customers to South East Water.	
5.4	HIGH LEVEL STRATEGIC REVIEW ON MAXIMISING THE VALUE OF MELBOURNE'S WATER RESOURCES	Peter Scott	27-Feb-04		100%	Complete	

6. Odour Control							
6.1	USE INVESTIGATION RESULTS TO CARRY OUT IMPROVEMENTS IN THE PLANT MANAGEMENT TO REDUCE ODOUR RISK	Tony Crapper	Ongoing		Ongoing	Operational staff have been requested to take immediate action when they observe any of the odour managements assets not operating as planned.	
6.2	PROVIDE ODOUR TREATMENT FOR AIR FROM PRIMARY TREATMENT AREA CURRENTLY VENTED AT THE CHLORINATION BUILDING	Michael Harding	3-Nov-07		20%	Detailed design is approximately 60% complete. An EPA Works Approval has been drafted and will be submitted within the next 2 weeks. Detailed design is scheduled for completion before Christmas.	
6.3	IMPROVE PERFORMANCE OF RETURN ACTIVATED SLUDGE CHANNEL ODOUR CONTROL FACILITY	Michael Harding	31-Dec-06		100%	The media was repalced and improvements were made to the spraybar system in December 2005.	
6.4	COVER AND TREAT ODOUR IN THE AIR REMOVED FROM THE PRIMARY TANKS AND SETTLED SEWAGE CHANNELS	Michael Harding	2012		0%	The works have been scheduled for completion in 2012	
6.5	REVIEW OUTCOMES FROM WORKS ABOVE TO ASSESS IF ANY ADDITIONAL WORKS ARE NEEDED	Chris Williams	Ongoing		na	Review odour level after works on 6.2,3,4 completed	
7. Management of Biosolids							
7.1	REVIEW SLUDGE MANAGEMENT PRACTICES AT ETP	Peter Scott and Chris Williams	31-Jul-04		100%	Review of sludge treatment & drying recommends augmentation of anaerobic digestion through thickening of primary sludge, & continued use of drying pans as they offer low energy/greenhouse & suitable product for beneficial uses. New drying pans have been constructed south of Thompsons Rd. Primary sludge thickening works at tender stage.	
7.2	CONTINUE TO REFURBISH THE LININGS OF THE SLUDGE DRYING PANS AS REQUIRED	Charmaine Quick	Ongoing		40%	Additional sludge drying pans have been constructed south of Thompson Road to permit an increased rate of refurbishment. Program being developed to refurbish more pans during 06/07 Summer	
7.3	PROVIDE CUTOFF DRAINS AROUND BIOSOLID STOCKPILES	Tony Crapper	30-Jun-04		100%	Works now complete	

7.4	IMPLEMENT BIOSOLIDS MANAGEMENT STRATEGY	Peter Bishop	Ongoing		na	Following an EOI for Biosolids Reusers ETP has been supplying biosolids to three soil blending companies. Demand was good initially but current demand is poor. Refer to action 9.2.	
7.5	USE ETP BIOSOLIDS TO COMPLETE WOODLANDS INDUSTRIAL ESTATE WETLANDS	Doug Tipping	30-Jun-04		100%	Complete	
7.6	INVESTIGATE THE FATE OVER TIME OF GROUND WATER CONTAMINANTS - BIOSOLIDS MANAGEMENT	Mark Lynch	30-Jun-04		100%	Latest monitoring results reported in the 2003/04 Annual Report to the EPA, detailing long term groundwater trends 1999-2004.	
8. Energy and Greenhouse Management							
8.1	COMPLETE EASTERN GREEN ENERGY PROJECT	Michael Harding	30-Apr-07		70% of construction work now complete	Commissioning of Alternators #5, #6, #7 and #8 has been completed. Installation of the remaining three alternators has commenced. Outfall Pump # 1 has been commissioned and is in operation. Installation of Outfall Pump #3 is in progress. Completion of the project is scheduled for May 2007	
8.2	IMPLEMENT GREENHOUSE GAS ACTION PLAN FOR MELBOURNE WATER	Erik Ligtermoet	Ongoing		50%	Agreement from EPA Victoria has been achieved for Greenhouse Gas actions at ETP. Implementing these actions will meet Melbourne Water's regulatory obligations in this area. Both Eastern Green Energy Project and the Aeration Upgrade project are critical to achieving emission reduction targets. These actions are consistent with Melbourne Water's agreement with the Australian Greenhouse Office under the Greenhouse Challenge. During the 06/07 financial year Melbourne Water will conduct an energy and greenhouse audit to help identify further progress. One project that has already started is a review of the ETP blower efficiency to determine whether energy savings are possible.	
9. Waste Management							
9.1	WASTE MINIMISATION EFFORTS FOCUSED ON WATER RECYCLING	Gordon McFarlane	Ongoing		Ongoing	South East Water continuing to sign up additional customers for recycled water from the South East Outfall. Volume recycled at and from ETP for the 6 months to 31 Dec 2005 was 9,871 million litres. TopAq are further refining the operation of their treatment plant and currently supplying Class A recycled water. SEW investigating dual pipe systems in Cranbourne.	

9.2	WASTE MINIMISATION EFFORTS FOCUSED ON BIOSOLIDS BENEFICIAL USES	Peter Bishop	Ongoing		Ongoing	No market for soil blending ETP biosolids at present (a tender in May failed to attract any interest). Melbourne Water's biosolids strategy has been revised (July 2006) and approved in principle with the board. The next step is to review the strategy through the Department of Treasury and Finance Gateway Review process. The revised biosolids strategy recommends diversification of ETP biosolids reuse to include use as a structural fill for road projects (negotiations with VicRoads are underway) and land application as a fertiliser.	
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10. Asset Management to Prevent Pollution							
10.1	CONTINUE TO MANAGE ASSETS AT ETP AS DEFINED IN THE ASSET MANAGEMENT PLAN	Gerald Fitzgibbon	Ongoing		Ongoing	Maintenance carried out according to schedules in Hansen (maintenance database) and report in annual report.	
11. Wet Weather and Hydraulic Management							
11.1	CONSTRUCT AN ADDITIONAL EFFLUENT HOLDING BASIN	Chris Williams	30-Jun-07		Current capital program 2009-11	When completed in 2011, the new Western Effluent Holding Basin will have capacity of approx. 1000 million litres, equivalent to almost 3 days of normal flows in dry weather. Interim works to contain around 1/3 of this volume were completed in February 2005. Existing capacity of the effluent holding basins has not been exceeded since the plant was commissioned in 1975 and both the interim and final works provide greater holding capacity and greater security in extreme wet weather conditions.	
12. Management of Biodiversity at the Site							
12.1	DEVELOP A BIODIVERSITY MANAGEMENT PLAN FOR ETP	Camille White	30-Jun-04		100%	Final document complete	
12.2	CARRY OUT A FLORA AND FAUNA SURVEY OF THE SITE	Camille White	30-Jun-04		100%	Complete	
12.3	SEEK PROFESSIONAL ADVICE ON FERAL ANIMAL CONTROL & PUT CONTROL PROGRAM IN PLACE	Camille White	30-Jun-04		100%	Complete	
13. Site Security to Prevent Pollution							
13.1	CONTINUE TO UPGRADE SECURITY WITH LATEST TECHNOLOGY, ETC	Mike Smith	Ongoing		na	Meetings between the retail water companies to discuss risk and emergency management issues, including security are held on a regular basis.	Report in annual report.



On track



Some issues with progress



Major issues with progress