



Compliance and performance annual report 2011-12

Water supply and sewerage

Part 2: Technical (general)

Actew Corporation

Introduction Instructions for completing the annual report About the annual report

(Refer to Part 1: Non-technical for section 1 and Part 3: Technical (dam safety) for section 3) Section 2: Technical regulation of water and sewerage

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Contents Introduction

Instructions for completing the annual report

Completing the templates:

Note : This report should be completed after reading the separate explanatory notes and data dictionary for water supply and sewerage.

- 1 All responses provided should only relate to services provided in the ACT. Where this is not possible, the licensee should advise which jurisdictions the information relates to.
- 2 Please indicate where material provided is confidential and not for general public release.
- ³ For instructions on completing Part 2 of the report, please refer to the explanatory notes provided on the first page of the '2012 Water and Sewerage Pt2 Technical Dictionary'.

Tip : Press Alt-Enter to start a new line in a cell.

Legend and data validation

Legend

- Blue cells with white text indicate column headings
- Blank white cells beneath column headings can be used for additional comments
- Orange cells indicate qualitative inputs.
- Yellow cells indicate quantitative inputs
- Grey cells indicate information to note when completing the form
- Diagonal stripes indicate a value is not required
- Blue text indicates a link to another page

| Column heading |
|--|
| Enter comments in these cells |
| Enter qualitative data in these cells |
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| Notes for completing questions |
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Compliance and performance survey 2011-12



Contents Introduction

Under section 25(2)(d) of the *Utilities Act 2000* (Utilities Act), utilities are required to report to the Independent Competition and Regulatory Commission (Commission) each financial year on the performance of their functions under the statute and their compliance with licence conditions. Reports must be submitted to the Commission within three months of the end of the financial year (i.e. by 1 October). The reported information forms the basis for the Commission's compliance reports and performance reports for licensed utility service providers. Parts 1 (Non-technical), 2 (Technical - general) and 3 (Technical - dam safety) of this template sets out the reporting requirements for 2011-12.



Note: Responses should be provided in accordance with the Explanatory Notes and the List of Questions.

The authorising officer may use an electronic signature.

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|-----|----|--------------------------------------|-----------------------|
| 2A | 00A | | Corporate Approval (Y/N?) | Yes |
| 2A | 00B | | Authorising officer name | Mark Sullivan |
| 2A | 00C | | Authorising officer title / position | Managing Director |
| 2A | 00D | | Authorising officer signature | |

| 0A | а | Technical compliance procedures (Y/N) | Yes |
|----|--------------------------------|--|--|
| 0A | b | Technical compliance procedure refs | Doc # 539777 v1 - Compliance Plan 2011/12 |
| 0A | С | Technical compliance procedure NCs (#) | 1 |
| 0A | d | Technical compliance procedure audits (Y/N) | |
| | | | Yes |
| 0A | е | Adverse audit conclusions (Y/N) | Yes |
| 1 | | Other network serviceability audits (Y/N) | No |
| 2 | а | Draft Emergency Plan submission | 28 July 2011 and 7 May 2012 |
| 2 | b | Emergency Plan contact list submission | 1 July 2011 |
| | | 0 | 22 December 2011 |
| | | | 28 May 2012 |
| 2 | С | Emergency event notification | 1 March 2012 - LMWQCC Bypass Storage Dam Discharge |
| | | 0 | 6 March 2012 - Enlarged Cotter Dam flood event |
| 2 | d | Emergency event report | 8 March 2012 - LMWQCC Bypass Storage Dam Discharge |
| | | 5 , 1 | 6 March 2012 (interim report), 26 April 2012 (final report) - Enlarged Cotter |
| | | | Dam flood event |
| 2 | е | | |
| | 0A 0A 0A 0A 1 2 | OA b OA c OA d OA e 1 2 a 2 b 2 c 2 c 2 d | OAbTechnical compliance procedure refsOAcTechnical compliance procedure NCs (#)OAdTechnical compliance procedure audits (Y/N)OAeAdverse audit conclusions (Y/N)1Other network serviceability audits (Y/N)2aDraft Emergency Plan submission2bEmergency Plan contact list submission2cEmergency event notification2dEmergency event report |

| 2A | 2 | f | Please refer to | |
|----|---|---|---|-----|
| 2A | 2 | g | Compliance and performance survey 2011-12 | |
| 2A | 2 | h | Water supply and sewerage | |
| 2A | 2 | i | Part 3: Technical (dam safety) | |
| 2A | 2 | j | - | |
| 2A | 2 | k | Draft accreditation scheme submission | Nil |
| 2A | 2 | | Service & Installation Rules submission | Nil |



| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|----|----|--|--|
| 2B | 0A | a | Emergency procedures | Yes |
| 2B | 0A | b | | Doc # 550840 v4A - Water Suply and Sewerage Emergency Plan |
| 2B | 0A | С | Emergency procedure NCs | 0 |
| 2B | 0A | d | Emergency procedure audits | Yes |
| 2B | 0A | е | Emergency procedure adverse findings | No |
| 2B | 1 | а | Emergency Plan | Yes |
| 2B | 1 | b | Emergency Plan reference | Doc # 550840 v4A - Water Suply and Sewerage Emergency Plan |
| 2B | 1 | С | Emergency Plan NCs | 0 |
| 2B | 1 | d | Emergency Plan audits | Yes |
| 2B | 1 | е | Emergency Plan adverse findings | No |
| 2B | 2 | а | Emergency event training procedures | Yes |
| 2B | 2 | b | Emergency training procedure reference | Doc # 550840 v4A - Water Suply and Sewerage Emergency Plan |
| 2B | 2 | С | Emergency trg proc NCs | 0 |
| 2B | 2 | d | Emergency training procedure audits | Yes |
| 2B | 2 | е | Emergency trg proc adverse findings | No |
| 2B | 3 | а | Emergency event notification procedures | Yes |
| 2B | 3 | b | | Doc # 550840 v4A - Water Suply and Sewerage Emergency Plan |
| 2B | 3 | С | Emergency event notification proc NCs | 0 |
| 2B | 3 | d | Emergency event notification proc audits | Yes |
| 2B | 3 | е | Emergency event notification proc adverse findings | No |
| 2B | 4 | а | EM records | Yes |
| 2B | 4 | b | | File G00/1185/1 - Water Supply and Sewerage Emergency Plan |
| 2B | 4 | С | EM records NCs | 0 |
| 2B | 4 | d | EM records audits | Yes |

| 2B | 4 | е | EM records adverse findings | No |
|----|----|---|---------------------------------|--|
| 2B | 5 | а | Emergency Plan officer position | Risk and Emergency Manager |
| 2B | 5 | b | | (02) 6242 1182 |
| 2B | 6 | а | | Simulated emergency events - loss of power at treatment plant, Googong Dam failure flood. Training sessions with responders. |
| 2B | 6 | b | | 2 December 2011 - Loss of power at treatment plant 27 March 2012 - Googong Dam failure flood 7 February 2012 - Training sessions with responders |
| 2B | 7 | | [no question] | |
| 2B | 8 | | | 1 - Spill of partially treated sewage into the Molonglo River. Currently considering a review which will develop options for increasing the storage capacity of LMWQCC Bypass Storage Dam. |
| 2B | 9 | | Emergency events - high | 0 |
| 2B | 10 | | Emergency plan distribution | Yes |



Note: Responses should be provided in accordance with the Explanatory Notes and the List of Questions.

Sec #ptQuestion (short form)Utility 2012 responsePlease refer to Compliance and performance survey 2011-12 - Water supply and sewerage - Part 3: Technical (dam safety)



| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|---|----|--|---|
| 2D | 1 | a | Accreditation scheme | Yes |
| 2D | 1 | b | Accreditation scheme reference | Doc # 242801 v1 - Water and Sewerage Accreditation Scheme |
| 2D | 1 | С | Accreditation scheme non-conformances | 201 |
| 2D | 1 | d | Accreditation scheme audits | No |
| 2D | 1 | е | Accreditation scheme adverse findings | No Audit |
| 2D | 2 | а | Accreditation scheme training procedures | No |
| 2D | 2 | b | Accreditation scheme training proc refs | No procedures |
| 2D | 2 | С | Accreditation scheme training proc NCs | No procedures |
| 2D | 2 | d | Accreditation scheme training proc audits | No |
| 2D | 2 | е | Accreditation scheme training procedure adverse findings | No Audit |
| 2D | 3 | а | Accreditation register (or Statement) | No |
| 2D | 3 | b | Accreditation register reference | No procedures |
| 2D | 3 | С | Accreditation register NCs | 0 |
| 2D | 3 | d | Accreditation register audits | No |
| 2D | 3 | е | Accreditation register adverse findings | No Audit |
| 2D | 4 | а | Accreditation scheme officer position | Senior Manager Customer and Business Support |
| 2D | 4 | b | Accreditation scheme officer phone | (02) 6242 2108 |



2.5 Service and Installation Rules

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|---|----|-------------------------------------|--|
| 2E | 1 | а | S&I Rules | Yes |
| 2E | 1 | b | S&I Rules reference | Doc # 187290 v1 - Service and Installation Rules Final Version |
| 2E | 1 | С | S&I Rules NCs | 0 |
| 2E | 1 | d | S&I Rules audits | No |
| 2E | 1 | е | S&I Rules adverse findings | No Audit |
| 2E | 2 | а | | Yes |
| 2E | 2 | b | | Field Services staff are trainined and assessed against the National Water Package 07. Competency structures have been developed that align to network service and installation rules. |
| 2E | 2 | С | S&I Rules training procedure NCs | 0 |
| 2E | 2 | d | | Yes |
| 2E | 2 | е | S&I Rules trg proc adverse findings | No |



2.6 Network design and maintenance

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|---|----|--|---|
| 2F | 1 | а | Design standards | Yes |
| 2F | 1 | b | Design standards reference | ACTEW Water Supply and Sewerage Standards |
| 2F | 1 | С | Design standards non-conformances | 0 |
| 2F | 1 | d | Design standards audits | No |
| 2F | 1 | е | Design standards adverse findings | No Audit |
| 2F | 2 | а | Service projections | Yes |
| 2F | 2 | b | Service projection reference | ActewAGL January 2012 FSTP Catchment Strategic Review - ActewAGL December 2007 Doc # 628673 v2 - Existing System Service Capability Report - ActewAGL July 2012 Doc # 595205 v1 - Canberra Population Growth Forecast November 2011, Cotter Precent Sewerage Strategy Plan - May 2010, Mollonglo Valley Sewer Master Plan December 2006 |
| 2F | 2 | С | Service projection non-conformances | 0 |
| 2F | 2 | d | Service projection audits | No |
| 2F | 2 | е | Service projection adverse findings | No |
| 2F | 3 | а | Design & construction procedures | Yes |
| 2F | 3 | b | Design & construction procedure references | PB001 - Concept Phase PB002 - Development Phase PB003 - Implementation Phase PB004 - Finalisation Phase |
| 2F | 3 | С | Design & construction procedure NCs | 0 |
| 2F | 3 | d | Design & construction procedure audits | Yes |
| 2F | 3 | е | Design & construction procedure adverse findings | No |

| 2F | 4 | а | O&M procedures | Yes |
|----------|---|---|---|---|
| 2F | 4 | b | O&M procedure references | Doc # 439928 v1H - IMS 001 Manual Content |
| 2F | 4 | С | O&M procedure NCs | 12 |
| 2F | 4 | d | O&M procedure audits | Yes |
| 2F | 4 | е | O&M procedure adverse findings | Yes |
| 2F | 5 | а | Asset registers | Yes |
| 2F | 5 | b | Asset register references | WASP, ACMS, ESRI and ORACLE system databases contain extensive |
| | | | | lists of asset data complying with code requirements |
| 2F | 5 | С | Asset register NCs | 0 |
| 2F | 5 | d | Asset register audits | No |
| 2F | 5 | е | Asset register adverse findings | No Audit |
| 2F | 6 | а | AM program assessments | Yes |
| 2F | 6 | b | AM program assessment references | Doc # 309811 v1B - ACTEW Asset Management Plan 2008-2027 Vol 1 |
| | | | | Doc # 309814 v1C - ACTEW Asset Management Plan 2008-2027 Vol 2 |
| 2F | 6 | С | AM program assessment NCs | 0 |
| 2F | 6 | d | AM program assessment audits | No |
| 2F | 6 | е | AM prog assessment adverse findings | No Audit |
| 2F | 7 | а | AM plans | Yes |
| 2F | 7 | b | AM plan references | Doc # 309811 v1B - ACTEW Asset Management Plan 2008-2027 Vol 1 |
| 05 | - | | | Doc # 309814 v1C - ACTEW Asset Management Plan 2008-2027 Vol 2 |
| 2F | 7 | c | AM plan NCs | U |
| 2F | 7 | d | AM plan audits | Yes No |
| 2F | 7 | е | AM plan adverse findings | |
| 2F | 8 | а | Performance monitoring procedures | Yes Doc # 539777 v1 - Compliance Plan 2011/12 |
| 2F | 8 | b | Performance monitoring procedure references | Doc # 556442 v1A - UMA Operating Plan 2011/12 |
| | | | | Doc # 550609 v7A - Water Quality Management Plan |
| | | | | Doc # 198590 v5 - Treatment Process Control Statutory and Contractual |
| | | | | Reporting Spreadsheet |
| 2F | 8 | С | Performance monitoring procedure NCs | 37 |
| 2F | 8 | d | Performance monitoring procedure audits | Yes |
| 2F | 8 | e | Performance monitoring procedure adverse findings | No |
| 2F | 9 | - | [no question] | |
| 2F | 9 | а | Water network works as per AMP? | Yes |
| 2F | 9 | b | Sewerage network works as per AMP? | Yes |
| <u> </u> | ~ | ~ | | |



2.7 Water Supply and Sewerage Service Standards Code

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|---|----|-----------------------|--|
| 2G | 1 | а | LWAP | Yes |
| 2G | 1 | b | | Trade Waste Notes TW 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 1/7/05 |
| | | | | TW 3 - 13/8/10 |
| 2G | 1 | С | LWAP NCs | 0 |
| 2G | 1 | d | LWAP audits | No |
| 2G | 1 | е | LWAP adverse findings | No Audit |



| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|---|----|---|--|
| 2H | 1 | а | Meter issue procedures | Yes |
| 2H | 1 | b | Meter issue procedure references | CSE304 - Water Meter Issue |
| 2H | 1 | С | Meter issue procedure non-conformances | 0 |
| 2H | 1 | d | Meter issue procedure audits | No |
| 2H | 1 | е | Meter issue procedure adverse findings | No Audit |
| 2H | 2 | а | Meter monitoring procedures | Yes |
| 2H | 2 | b | Meter monitoring procedure references | AMB017 - Water Meter In-Srevice Compliance Testing |
| 2H | 2 | С | Meter monitoring procedure NCs | 0 |
| 2H | 2 | d | Meter monitoring procedure audits | No |
| 2H | 2 | е | Meter monitoring procedure adverse findings | No Audit |
| 2H | 3 | | Check reading requests | 1,259 |
| 2H | 4 | | Number of readings accurate | Data not available |
| 2H | 5 | | Meter test requests | 10 |
| 2H | 6 | | Meters proved NOT defective | 10 |



2.9 Key indicators - water supply (potable)

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|----|----|------------------------------------|-----------------------|
| 2K | W1 | | Total water supplied (ML) | 38,767 |
| 2K | W2 | а | Connections - water supply (#) | 153,916 |
| 2K | | b | Customers on standard contract (#) | 155,269 |
| 2K | | С | Less onerous contracts (#) | 0 |
| 2K | W3 | а | Water mains - total (km) | 3,179 |
| 2K | | b | Water mains - trunk (km) | 244 |
| 2K | | С | Water mains - reticulation (km) | 2,921 |
| 2K | | d | Water mains - critical (km) | 467 |
| 2K | | е | Water mains - non-critical (km) | 2,698 |
| 2K | | f | Water mains - unassessed (km) | 0 |
| 2K | | g | Stop valves (#) | 16,464 |
| 2K | | h | Pump stations (#) | 25 |
| 2K | W4 | а | Main breaks, old def (#/100km) | 24.21 |
| 2K | | b | Main breaks, 2006 def (#/100km) | 24.66 |
| 2K | | С | Main breaks, potable (#/100km) | 13.68 |
| 2K | W5 | а | Mains UIs (#/1000 prop) | 60.7 |
| 2K | | b | Property service UIs (#/1000 prop) | 3.51 |
| 2K | | С | Properties with ONE UI (#) | 8,457 |
| 2K | | d | Properties with 2 UI (#) | 1,182 |
| 2K | | е | Properties with 3 UI (#) | 232 |
| 2K | | f | Properties with 4 UI (#) | 47 |
| 2K | | g | Properties with 5+ UI (#) | 21 |
| 2K | W6 | а | Customers on low pressure (#) | 0 |
| 2K | | b | Customers repeat low pressure (#) | 0 |

| 2K | с | Customers on low pressure (ops) (#) | 0 |
|----|-------|---------------------------------------|--------|
| 2K | d | Other cl. 7 non-compliances (#) | 0 |
| 2K | W7 | | 21,623 |
| 2K | W8 a | | 3,311 |
| 2K | b | Mains renewal - 100mm (km) | 0 |
| 2K | С | Mains renewal - over 100mm (km) | 0 |
| 2K | d | Mains renewal cost (\$000s) | 0 |
| 2K | е | Mains renewal - critical (km) | 0 |
| 2K | f | Mains renewal - non-critical (km) | 0 |
| 2K | W9 a | Valve & hydrant repair cost (\$000s) | 571 |
| 2K | b | Valves & hydrants renewed (#) | 4 |
| 2K | С | Valve & hydrant renewal cost (\$000s) | 90 |
| 2K | W10 | ACTFB non-compliances (#) | |
| | | | 0 |
| 2K | W11 a | Water service complaints (#) | |
| | | | 310 |
| 2K | W12 | Real losses (ML) | |
| | | | 2,453 |
| 2K | W13 a | Leakage investigation - length (km) | |
| | | | 0 |
| 2K | b | Leakage investigation - cost (\$000s) | 0 |
| 2K | С | Leakage identified (ML) | 0 |
| 2K | W14 a | Water quantity tests requested (#) | |
| | | | 0 |
| 2K | b | Water quantity tests compliant (#) | 0 |
| 2K | W15 a | DWQC NCs (#) | |
| | | | 0 |
| 2K | b | | 0 |
| 2K | С | DWQC NCs undetermined (#) | 0 |
| 2K | W16 a | Total WQ complaints (#) | |
| | | | 131 |
| 2K | b | | 0 |
| 2K | С | WQ remedies > 24 hr (#) | 24 |
| 2K | d | Widespread WQ events (#) | 0 |

| 2K | W17 a | WQ tests requested (#) | |
|----|-------|----------------------------------|-----|
| | | | 36 |
| 2K | b | WQ tests compliant (#) | 36 |
| 2K | W18 | % microbiological compliance (%) | |
| | | | 100 |



2.10 Key indicators - non potable/recycled/secondary class water supply

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|----|----|--|-----------------------|
| 2K | R1 | | Total non-potable water supplied (ML) | 1,857 |
| 2K | R2 | | Total connected properties - Non-potable water (#) | 8 |
| 2K | R3 | а | Non-potable water mains (km) | 18 |
| 2K | | b | Mains repurposed (km) | 0 |
| 2K | | С | Pump stations (#) | 3 |



2.11 Key indicators - sewerage

| Sec | # | pt | Question (short form) | Utility 2012 response |
|-----|----|----|--|-----------------------|
| 2K | S1 | | Total sewage collected (ML) | 35,231 |
| 2K | S2 | | Connected properties - sewerage (#) | 153,068 |
| 2K | S3 | а | Sewers (km) | 3,174 |
| 2K | | b | Sewer mains - trunk (km) | 373 |
| 2K | | С | Sewer mains - reticulation (km) | 2,801 |
| 2K | | d | Sewer mains - critical (km) | 0 |
| 2K | | е | Sewer mains - non-critical (km) | 0 |
| 2K | | f | Sewer mains -unassessed (km) | 3,174 |
| 2K | | g | Number of pump stations (no.) | 26 |
| 2K | S4 | а | Breaks & chokes - mains (#/100km) | 42 |
| 2K | | b | Breaks & chokes - connections (#/1000prop) | 8.21 |
| 2K | | С | Roots - mains (%) | 89 |
| 2K | | d | Roots - connections (%) | 86.7 |
| 2K | | е | Breaks in mains (#) | 1,336 |
| 2K | | f | Breaks in connections (#) | 1,256 |
| 2K | S5 | | Drainage reimbursements | 669 |
| 2K | S6 | а | Sewer overflows, total (#) | 1,032 |
| 2K | | b | Sewer overflows, critical (#) | 61 |
| 2K | | С | Overflows from overload conditions (#) | Not recorded |
| 2K | | d | Overflows from pump stations (#) | 1 |
| 2K | | е | Overflows cause undetermined (#) | 43 |
| 2K | | f | Properties subject to repeat overflows (#) | 1,023 |
| 2K | | g | Overflows in properties | 11 |
| 2K | S7 | а | Trade waste customers (#) | 2,300 (estimate) |

| 2K | | b | Trade waste compliance (#) | Data not available |
|----|-----|---|---|--------------------|
| 2K | S8 | | Sewerage complaints (#) | 219 |
| 2K | S9 | | Treatment compliance (%) | 100 |
| 2K | S10 | | CAPEX sewerage (\$000s) | 24,188 |
| 2K | S11 | а | Sewer repair cost (\$000s) | 1,620 |
| 2K | | b | Sewer renewal - 150mm (km) | 12.99 |
| 2K | | С | Sewer renewal - 225mm (km) | 0.31 |
| 2K | | d | Sewer renewal - over 225mm (km) | 0.18 |
| 2K | | е | Sewer renewal cost (\$000s) | 3,605.00 |
| 2K | | f | Sewer renewal - critical mains (km) | 0 |
| 2K | | g | Sewer renewal - non-critical mains (km) | 2.62 |
| 2K | S12 | а | Sewer connection repair cost (\$000s) | 1,240 |
| 2K | | b | Sewer connection renewal (#) | 404 |
| 2K | | С | Sewer connection renewal cost (\$000s) | 934.48 |
| 2K | S13 | а | Sewer length inspected (km) | 67.3 |
| 2K | | b | Sewer inspection cost (\$000s) | 514 |
| 2K | | С | Sewer length cleaned (km) | 311.6 |
| 2K | | d | Sewer cleaning cost (\$000s) | 1,799 |



2.12 Water supply and sewerage - supplementary information

Note: Please reference each item with the relevant question.

| Number | pt | Utility 2012 response | | |
|--------|----|--|--|--|
| 2A 0A | С | Non-conformance relating to treated water turbidity | | |
| 2D 1 | С | Majority of non-conformances relate to box being too high, box being too late or meter installed late | | |
| 2F 4 | С | Non-conformance relate to the following: - no reference to training in asbestos material handling and disposal procedure - deviations not supported by deviations report for the evaluation of project optimisation of drawings management project - corrective actions identified for Corporate Services on contractor HS&E management - document control issues identified in the evaluation of pathway for projects from acceptance by asset owner to completed transition into asset service - improvements recommended in the generation of workpacks from Infrastructure Development and Asset Management branch - contract insurance variation procedure to be reviewed - surveillance audit - development of a framework for stakeholder engagement for use during planning up until asset acceptance by asset owner absent - existing policy and procedures for bushfire risk mitigation require review to address recommendations of auditor - no evidence that radionucleotides was analysed - legal obligation and licensing requirements non-conformity - Field Services sewerage overtime control and resources review | | |
| 2F 8 | С | Various non-conformances relating to water treatment plant performance | | |
| 2K S7 | а | In previous years, this figure has been reported as the total number of non-residential sewerage properties. As part of our policy development, we are identifying our trade waste customers and estimating the number in each category. The figure reported is an estimate only. | | |