Second and final audit of water recovery from LMW SWEP

Audit report

Final v1

November 2025

Document status

Client	Department of Energy, Environment and Climate Action
Project	Second and final audit of water recovery from LMW SWEP
Report title	Audit report
Version	Final v1
Author	Leah Traill
Project manager	Leah Traill
File name	VIC00148_RP_Second_and_final_LMW_SWEP_audit_Final_v1.docx
Project number	VIC00148

Document history

Version	Date issued	Reviewed by	Approved by	Sent to	Comment
Draft	14/11/2025	S. Lang	S. Lang	R. Lett, B. Sheffield	Draft for comment
Draft B	19/11/2025	S. Lang	S. Lang	S. Mensch	DEECA reviewed draft for comment
Final v1	25/11/2025	S. Lang	S. Lang	R. Lett, B. Sheffield, S. Mensch	

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Audit summary

Background

Funded by the Commonwealth Government, under the Off-farm Efficiency Program, the Lower Muray Water (LMW) Sunraysia Water Efficiency Project (SWEP) is seeking to deliver 1.8 GL of water savings to the Commonwealth Environmental Water Holder (CEWH) through irrigation modernisation works in the Mildura, Red Cliffs and Merbein irrigation districts. This volume will be counted towards Victoria's agreed water recovery target under the Murray-Darling Basin Plan.

After completing the SWEP works, LMW estimated and reported the Phase 4 water savings to the Victorian Department of Energy, Environment and Climate Action (DEECA). Phase 4 refers to the long-term average annual water savings attributable to the constructed irrigation modernisation works.

About this audit

HARC was appointed by DEECA on 19 September 2025 to undertake an audit of the Phase 4 water savings claimed by LMW. HARC's findings and recommendations are documented in this audit report.

Audit scope

The audit has examined the Phase 4 water saving from the SWEP, excluding the water savings audited in 2023. The audit was conducted as a limited assurance direct engagement (ASAE 3000) and addressed all elements of the audit scope requirements in the Victorian *Water Savings Protocol Version 5* (DELWP, 2018) as summarised in Table S-1.

Table S-1: Audit scope requirements established in the Protocol

Scope	Addressed in
Undertake random and targeted checks of the irrigation modernisation works to verify that they have been implemented as documented in the water savings estimates.	Section 3
Determine whether the data collection and inputs are as accurate as could reasonably be expected for estimating water savings.	Section 3, 4
Verify that the water savings estimates have been made in accordance with the Protocol.	Section 4
Confirm that water savings have been estimated based on the nature and the extent of all irrigation modernisation works.	Section 4
Provide a corrected estimate of the water savings for any component where the project proponent's calculations are found to be non-compliant with the Protocol.	Section 4
Identify potential improvements to the data collection, data analysis, assumptions and methods used to estimate the water savings.	Section 3, 5
Make recommendations to DEECA on changes to the Protocol that will improve the useability and accuracy of water savings estimates.	Section 5

Primary audit findings and recommendations

The primary findings and associated recommendations regarding the audited Phase 4 water savings are presented in Table S-2.

Table S-2: Primary audit findings and recommendations by audit criteria

Audit criteria	Primary findings	Recommendations impacting the audited recovery volume
Criteria 1 – The irrigation modernisation works, for which savings are estimated, have been completed and commissioned and are consistent with the water savings estimates.	The audit has confirmed that the scope of works, for which the Phase 4 water savings were estimated, is consistent with the scope of SWEP works, excluding those associated with water savings already audited.	
Criteria 2 – The inputs used in the estimation of the water savings are as accurate as could reasonably be expected and the processes and systems for their collection and management support confidence in their accuracy.	The audit has determined, based on the verification of a targeted and random sample of works, and within the scope of a limited assurance engagement (ASAE 3000), that there is sufficient evidence to support the conclusion that the works have been constructed, completed and are consistent with the water savings estimates. The audit found that the SWEP has clear and established record management practices, as part of the LMW ISO 9001:2015 accredited quality management systems, that support confidence in the data and inputs being as accurate as could reasonably be expected for estimating water savings.	
Criteria 3 – The methods used to estimate the water savings are consistent with the Protocol or have been approved by the DEECA Executive Director, Water Resources Strategy (ED-WRS).	The audit identified two errors: ▪ Except for the Wargan pool, a method that differed from the Protocol was used to estimate bank leakage savings. This alternative method did not receive formal approval from DEECA ED-WRS. ▪ Using the Wargan pool pre-works pondage test results to estimate seepage and bank leakage losses for Knife's Edge was not appropriate, given differences in channel characteristics.	Omit bank leakage water savings calculated using alternative methods from the audited water savings. Use average pondage test results from comparable channels for Knife's Edge.
Criteria 4 – The inputs used in the water savings calculations are consistent with the Protocol or have been approved by DEECA ED-WRS.	The audit identified three errors: ▪ The channel pool lengths (CPL) and length of pipeline (L_{pipe}) differed from as constructed and design drawings ▪ The pondage test evaporation and rainfall rates were not calculated correctly ▪ The 5 Dethridge meters in the Wargan pool pre-works were not accounted for in the pondage test calculation	Adopt lengths consistent with as constructed and design drawings. Correct the calculation of evaporation and rainfall rates. Account for the 5 Dethridge meters in the Wargan pool.
Criteria 5 – The water savings calculations are performed correctly.	The audit identified two errors: ▪ An Excel error resulted in the wrong cell being referenced when calculating bank leakage savings for the Wargan pool. ▪ For removed and replaced meters in the Wargan pool, the incorrect leakage around the service point (LTA) was applied.	Correct the Excel error. Apply the correct LTA.

Audited water savings estimates

The audited Phase 4 water savings estimate from the SWEP, excluding those previously audited (HARC, 2023), was **1,550 ML (LTAAY)**. This is 87 ML more than LMW's Phase 4 water savings estimate of 1,463 ML (LTAAY). This change was predominantly the result of:

i.) Correcting the spreadsheet error in the bank leakage savings calculation for the Wargan pool;

ii.) Omitting bank leakage savings estimated using methods inconsistent with the Protocol; and

iii.) Correcting the calculation of pondage test evaporation and rainfall rates.

Tables S-3 present the audited water savings by modernisation works and by district.

Table S-3: Audited Phase 4 water savings

District	Water savings (ML LTAAY)				
	Channel remediation	Channel asset removal	Service point removal	Service point replacement	Total
Merbein	392	20	90	17	**519**
Mildura	735	101	-	-	**836**
Red Cliffs	-	-	194	-	**194**
Total	**1,127**	**121**	**284**	**17**	**1,549**

The HARC (2023) audited water savings from SWEP works completed and commissioned by 31 August 2023 was 314 ML (LTAAY). The total audited water savings from SWEP is therefore **1,864 ML (LTAAY)**.

It is recommended that the verification of the water savings using water balances (Section 4.6) is revisited once data is available for the 2025/26 water year (i.e. the first full year of operating the modernised system). This is important to check that the irrigation districts can be sustainably operated with the loss provisions that remain in Bulk Entitlements after water shares created from the savings are handed over to the CEWH. This verification process may also demonstrate that the modernisation works have achieved more savings than have been audited, at which point LMW could consider making an additional claim.

Statement of Assurance

This limited assurance direct engagement audit has been conducted in accordance with the *Water Savings Protocol Version 5* (Protocol) (DELWP, 2018) and the Australian Standard on Assurance Engagements ASAE 3000 *Assurance Engagements Other than Audits or Reviews of Historical Financial Information* (Auditing and Assurance Standards Board, 2017).

This Assurance Standard places obligations on the auditor with respect to their behaviour and ethical conduct in relation to assurance engagements. It also establishes and supports the planning of an engagement so that the work can be carried out in an effective and efficient manner.

The Protocol was the basis for defining the audit criteria used in the completion of this limited assurance engagement.

Lower Murray Urban and Rural Water Authority (LMW), as the project proponent, were responsible for the preparation of the water savings estimates in accordance with the Protocol and the provision of these estimates along with all supporting information and material to the audit. LMW's role has also included supplementary analyses and the provision of additional supporting data and records to the auditor.

HARC's primary responsibility as the auditor was to systematically and transparently audit LMW's Phase 4 water savings estimates in a manner that enabled it to form a limited assurance conclusion on whether the estimates were consistent with the Protocol and free from material misstatement.

To this end, HARC established the following audit criteria against which the audit was carried out.

Criteria 1–The irrigation modernisation works, for which savings are estimated, have been completed and commissioned and are consistent with the water savings estimates.

Criteria 2–The inputs used in the estimation of the water savings are as accurate as could reasonably be expected and the processes and systems for their collection and management support confidence in their accuracy.

Criteria 3–The methods used to estimate the water savings are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 4–The inputs used in the water savings calculations are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 5–The water savings calculations are performed correctly.

In auditing LMW's water savings estimates against these criteria HARC has:

- Reviewed the documents, reports, spreadsheets and data received from LMW and made supplementary information requests
- Conducted site visits of irrigation modernisation works and interviews with LMW staff
- Confirmed the scope of works for which Phase 4 water savings were estimated
- Verified, based on a random sample, that these works have been completed, commissioned and are consistent with the water savings calculations
- Reviewed the record management practices that underpin the data used in the estimation of the Phase 4 water savings
- Verified that the methods, inputs and calculations used by LMW were consistent with the Protocol and documented our findings where they were not
- Carried out detailed checks of the water savings calculations in the Excel spreadsheets provided by LWM, as well as undertaking our own QA checks
- Documented our findings, in accordance with the Protocol's water savings audit reporting requirements.

This means that HARC has obtained sufficient and appropriate evidence to support our audit findings and recommendations (Table S-2).

Glossary

Area	Surface area (m^2)
CL	Ratio of the length of channel removed to the total channel length in the defined system
CPL	Length of channel pool (m)
CWF	Channel width factor – calculated as the ratio of actual bank width to recorded bank width
Δd	Rate of change in water level at channel operating level, as per pondage test (m/d)
DEECA	Victorian Department of Energy, Environment and Climate Action
DF	Durability factor
D_{MBase}	Baseline year customer deliveries through removed meters (ML)
D_{UBase}	Baseline year customer deliveries through open outlet or unmetered service that were removed (ML)
E	Evaporation (m/d) (for the pondage test calculation) **OR** average daily evaporation (mm/d) (for estimating evaporative losses)
E_{Base}	Evaporation from the distribution system in the baseline year (ML)
EF	Effectiveness factor
ED-WRS	Executive Director, Water Resources Strategy
F(PA)	Factor to adjust pondage test data to account for additional losses under operating conditions
FL	Proportion of bank leakage loss recognised as fixed - nominally 35%
$F(LTCE_{Base})$	The factor to convert volumes from the baseline year to the long-term cap equivalent (i.e., long-term average)
$F(LTCE_{Yearx})$	The factor to convert volumes from the year in question to the long-term cap equivalent (i.e., long-term average)
ITP	Inspection and Test Plan
L_{Base}	Bank leakage from the distribution system in the baseline year (ML)
LMW	Lower Murray Urban and Rural Water Authority
L_{pipe}	Replacement pipeline length (km)
LTA	Leakage around service points (ML/SP/year)
LTAAY	Long-term average annual yield
LTT	Leakage through service points (ML/SP/year)
MCF	Meter correction factor to correct the indicated volumes measured by Dethridge meters, or deemed at open outlet or unmetered service points
N	Number of Dethridge meter and open outlet service points within channel section (for the pondage test calculation)
$N_{rationalised}$	Number of Dethridge meter or open outlet service points removed
$N_{removed}$	Number of Dethridge meter or open outlet service points removed
PEF	Pan evaporation factor
$PT^{Pre\ Works}$	Total pre-works seepage and bank leakage loss as estimated via pondage testing (ML)

$PT^{Post\ Works}$	Total post-works seepage and bank leakage loss as estimated via pondage testing (ML)
R	Residual pipe loss **OR** average daily rainfall (mm/d)
S_{Base}	Seepage from the distribution system in the baseline year (ML)
$S^{Pre\ Works}$	Pre-works seepage loss, as determined from pondage testing (ML)
$S^{Post\ Works}$	Post-works seepage loss, as determined from pondage testing (ML)
SWEP	Sunraysia Water Efficiency Project
T	Length of a standard irrigation season (days)
$T_{At\ or\ above\ supply\ level}$	Length of a standard irrigation season where the channels are at or above supply level (days).
time	Number of days
U_{Base}	Unauthorised use losses in the baseline year (ML/SP/year)
VL	Proportion of bank leakage loss recognised as variable - nominally 65%
W	Average channel surface width (m)
$WS_{bank\ leakage(LTCE)}$	Estimated long-term water savings due to reduced bank leakage losses (ML LTAAY)
$WS_{evaporation(LTCE)}$	Estimated long-term water savings due to reduced evaporative losses (ML LTAAY)
$WS_{leakage\ around(LTCE)}$	Estimated long-term water savings due to reduced leakage around service points (ML LTAAY)
$WS_{leakage\ through(LTCE)}$	Estimated long-term water savings due to reduced leakage through service points (ML LTAAY)
WS_{LTCE}	Estimated total long-term water savings (ML LTAAY)
$WS_{meter\ error(LTCE)}$	Estimated long-term water savings due to reduced meter error (ML LTAAY)
$WS_{seepage(LTCE)}$	Estimated long-term water savings due to reduced seepage losses (ML LTAAY)
$WS_{unauthorised(LTCE)}$	Estimated long-term water savings due to reduced unauthorised use (ML LTAAY)
$WS_{unmetered(LTCE)}$	Estimated long-term water savings due to reduced unmetered use (ML LTAAY)
Y	Factor to convert from m^3 to ML (0.001)

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1. Introduction

1.1 Background

The Lower Murray Urban and Rural Water Authority (LMW) delivers water services in north-western Victoria to customers and communities along the Murray River from Kerang to the South Australian border. LMW's service area is shown in Figure 1-1.

Figure 1-1: LMW's service region (LMW, 2023b)

In addition to providing urban water supply and wastewater services to the region's population centres, LMW provides irrigation water services to its rural customers.

LMW irrigation water services include the operation of:

- four pumped irrigation districts – Robinvale, Red Cliffs, Merbein and Mildura
- the Millewa domestic and stock supply system
- an extensive drainage network for the collection and return of subsurface irrigation drainage.

In support of its delivery of irrigation services, LMW operates and maintains extensive irrigation infrastructure networks that are comprised of over 1,000 km of pipelines, 40 km of channels, 640 km of drainage assets, as well as storages, pump stations, regulators and outfalls (LMW, 2023a).

1.2 The Sunraysia Water Efficiency Project

Irrigation modernisation typically involves one or more of the following: automation of channel infrastructure; construction of pipelines; improving the accuracy of the metering of outlets to farms; and rationalising, lining and/or remodelling channel networks.

The LMW Sunraysia Water Efficiency Project (SWEP) is an off-farm irrigation modernisation project that is removing and upgrading outdated infrastructure in the Mildura, Red Cliffs and Merbein irrigation districts (Figure 1-2).

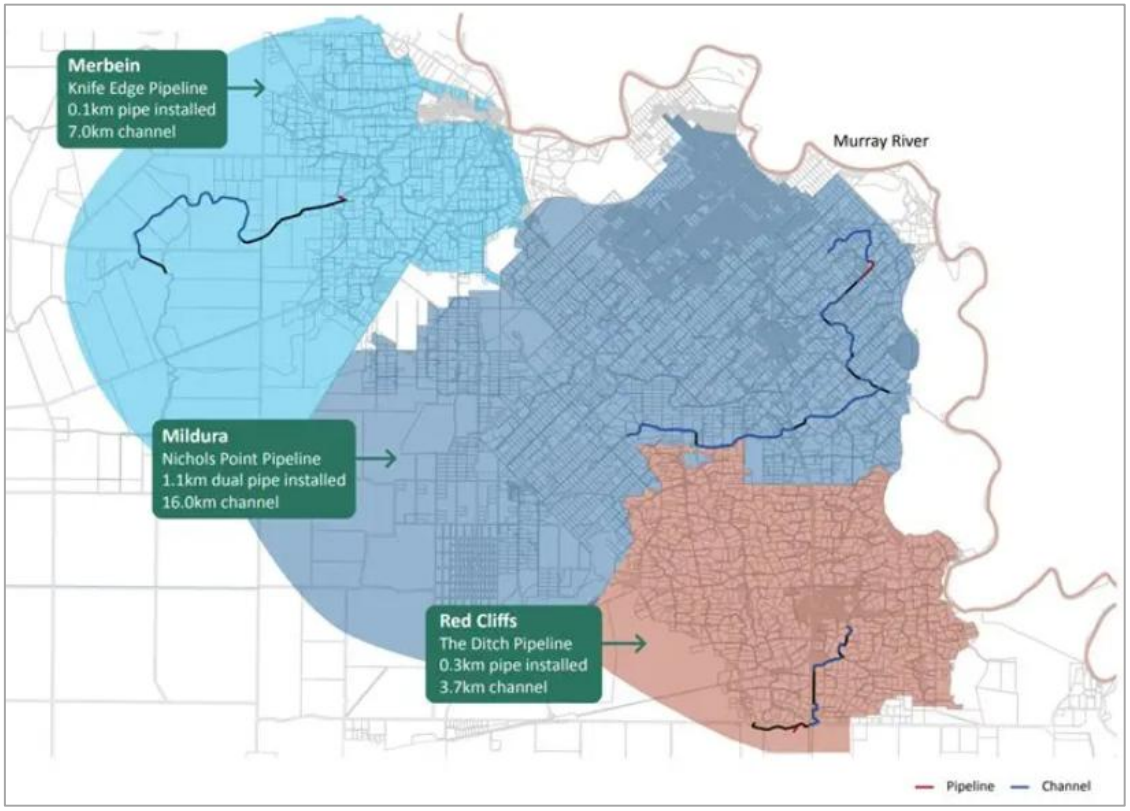

Figure 1-2: SWEP irrigation modernisation and efficiency works (LMW, 2023c)

Funded by the Commonwealth Government, under the Off-farm Efficiency Program, the SWEP is seeking to deliver to 1.8 GL (LTAAY) of water savings to the Commonwealth Environmental Water Holder from:

- lining or piping approximately 20 km of irrigation channels
- removing or upgrading 362 Dethridge meters.

The first stage of the SWEP works was completed in winter 2023, and the second and final stage was completed in winter 2024.

2. The audit

2.1 About the audit

Having completed the SWEP works, LMW has estimated the Phase 4 water savings (Table 2-1) and reported them to the Victorian Department of Energy, Environment and Climate Action (DEECA). As recommended in the Victorian *Water Savings Protocol* [1] (the Protocol), DEECA has sought an independent audit of the claimed water savings. HARC was appointed by DEECA on 19 September 2025 to undertake this audit. HARC's findings and recommendations are documented in this audit report.

Table 2-1: LMW's estimated Phase 4 water savings (GHD, 2025)

District	Water savings (ML LTAAY)				
	Channel remediation	Channel asset removal	Service point removal	Service point replacement	Total
Merbein	281	18	90	15	**404**
Mildura	768	97	-	-	**865**
Red Cliffs	-	-	194	-	**194**
Total	**1,049**	**115**	**284**	**15**	**1,463**

2.2 Scope of the audit

As specified by DEECA in its request for services (dated 27 August 2025), the audit has sought to verify the Phase 4 water savings from the SWEP, excluding those already audited in 2023 (HARC, 2023). The audit was conducted as a limited assurance direct engagement (ASAE 3000) and addressed all elements of the audit scope requirements set out in the Protocol. Table 2-2 summarises these requirements and identifies the sections of this report that address them.

Table 2-2: The scope of a water savings audit

Scope	Addressed in
Undertake random and targeted checks of the irrigation modernisation works to verify that they have been implemented as documented in the water savings estimates.	Section 3
Determine whether the data collection and inputs are as accurate as could reasonably be expected for estimating water savings.	Section 3–4
Verify that the water savings estimates have been made in accordance with the Protocol.	Section 4
Confirm that water savings have been estimated based on the nature and the extent of all irrigation modernisation works.	Section 4
Provide a corrected estimate of the water savings for any component where the project proponent's calculations are found to be non-compliant with the Protocol.	Section 4
Identify potential improvements to the data collection, data analysis, assumptions and methods used to estimate the water savings.	Section 5
Make recommendations to DEECA on changes to the Protocol that will improve the useability and accuracy of water savings estimates.	Section 5

[1] Victoria Department of Environment, Land, Water and Planning, 2018. *Water Savings Protocol–A protocol for the quantification of water savings from modernising irrigation distribution systems*. Version 5.0, October 2018. Available from "https://www.water.vic.gov.au/for-agriculture-and-industry/irrigation/water-savings-protocol". Victorian Department of Environment, Land, Water and Planning (DELWP).

Importantly, the Protocol defines the component water savings that irrigation modernisation works can deliver and provides guidance on estimating the savings. As such, the Protocol is the reference "standard" against which savings estimates have been verified—i.e., the Protocol defines the applicable criteria for the audit.

The audit of the estimated Phase 4 water savings, and the calculation underpinning them, were carried out against Version 5 of the Protocol. Unless explicitly stated, all references to the Protocol in this audit report refer to Version 5.

Only water savings volumes estimated using methods detailed in the Protocol were audited. Methods used that differed from the Protocol were accepted if evidence of formal approval from the DEECA Executive Director, Water Resources Strategy (ED-WRS) was provided. The method used to estimate the bank leakage savings was reviewed separately to this audit, with findings documented in HARC (2025).

Reporting on the audit and its findings have been carried out in line with the requirements established in the Protocol.

2.3 Audit process and method

The audit was conducted both remotely and on-site, with all online meetings recorded with the consent of participants. The recordings form part of the evidence base for the audit's findings and will be held on file by HARC. A summary of the meetings and interviews conducted is provided in Table 2-3.

Table 2-3: Meetings and interviews conducted in support of the audit

Meetings	Purpose	Location	Date	Attended by
Start-up meeting	To outline the audit process and requirements, establish the final scope of works to be audited and answer questions from LMW.	Online	06/10/2025	Elise Dodd (LMW) Stuart Mensch (LMW) Simon Lang (HARC) Leah Traill (HARC)
Site visit	To undertake random and targeted checks of the irrigation modernisation works to verify that they have been implemented as documented in the water savings estimates.	Mildura, Merbein, Red Cliffs	22/10/2025	Elise Dodd (LMW) Simon Lang (HARC) Leah Traill (HARC)
Data management practices interview	To clarify aspects of the data management practices underpinning the water savings calculations.	LMW Mildura Office	22/10/2025	Elise Dodd (LMW) Simon Lang (HARC) Leah Traill (HARC)
Audit closeout	To present the key audit findings to LMW.	Online	25/11/2025	Stuart Mensch (LMW) Daniel Frietag (Sequana) Simon Lang (HARC) Leah Traill (HARC) Matthew Hardy (HARC)

The audit was conducted in three overlapping stages.

Stage 1 – Information collection – In this stage HARC:

- met with LMW to establish the full set of works to be covered by the audit

- liaised with LMW to collect and collate the data and information relevant to the audit
- established and documented the applicable criteria for the audit, based on the scope of works being audited and the Protocol.

All information requests made by HARC and the data and documents received were captured in the audit request and document register (Appendix A).

Stage 2 – Audit – In this stage HARC undertook a limited assurance audit of LMW's Phase 4 water savings estimates against the audit criteria established in Stage 1. The audit criteria were:

Criteria 1 – The irrigation modernisation works, for which savings are estimated, have been completed and commissioned and are consistent with the water savings estimates.

Criteria 2 – The inputs used in the estimation of the water savings are as accurate as could reasonably be expected and the processes and systems for their collection and management support confidence in their accuracy.

Criteria 3 – The methods used to estimate the water savings are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 4 – The inputs used in the water savings calculations are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 5 – The water savings calculations are performed correctly.

Audit activities were structured around the review of the documents, reports, spreadsheets and data received from LMW. This included the LMW SWEP Water Savings 2024 Winter Works report (GHD, 2025), which documents the Phase 4 water savings estimates.

Audit activities were also supported by:

- supplementary information requests—documented in the information request register
- site inspections and interviews with LMW—See Table 2-3.

Stage 3 – Reporting – Reporting on the audit and its findings was carried out in line with the requirements established in the Protocol. These requirements and where they are addressed in this report are summarised in Table 2-4.

Table 2-4: The reporting requirements of a water savings audit (DELWP, 2018)

Requirement	Addressed in
A summary of findings.	Summary of Findings
Background information on the irrigation modernisation projects for which the water savings estimates are being audited, including the water savings targets.	Section 1
A description of the method(s) used for the independent audit.	Section 2
The details and results of any site inspections undertaken.	Section 3
An assessment of how well the project proponent's business and information systems and processes support the calculation of water savings.	Section 3
The results of random and target sampling of the data trails used in the estimates of water savings.	Section 3
An evaluation of all water savings estimates against the Protocol.	Section 4
Documentation of any instances of non-compliance with the Protocol, and the changes required to the project proponent's estimates of water savings.	Section 4
Any recommended improvements to the data and methods used to estimate and report the water savings estimates, including revisions to the Protocol.	Section 5

3. Audit of irrigation modernisation works

This section documents HARC's audit of the SWEP works, excluding those already audited in 2023. The audit undertaken has sought to:

- confirm the scope of works for which Phase 4 water savings have been estimated (Section 3.1)
- verify, based on a random sample, that these works have been completed, commissioned and are consistent with the water savings calculations (Section 3.2)
- review the record management practices that underpin the data used in the estimation of the Phase 4 water savings (Section 3.3).

These activities were the basis for evaluating the following audit criteria.

Criteria 1 – The irrigation modernisation works, for which savings are estimated, have been completed and commissioned and are consistent with the water savings estimates.

Criteria 2 – The inputs used in the estimation of the water savings are as accurate as could reasonably be expected and the processes and systems for their collection and management support confidence in their accuracy.

The assessments undertaken and criteria evaluated address or contribute to addressing the following Protocol audit scope requirements.

- Undertake random and targeted checks of the irrigation modernisation works to verify that they have been implemented as documented in the water savings estimates.
- Determine whether the data collection and inputs are as accurate as could reasonably be expected for estimating water savings.

3.1 Confirmation of the scope of modernisation works

The previously audited SWEP works included 2023 winter works and historical (pre-2023) channel lining. This audit scope of works included 2024 winter works, which involved channel remediation, channel asset removal, service point removal, and service point replacement.

3.1.1 Channel remediation works

Channel sections lined as part of the 2024 winter works were designed by GHD and constructed by either Northern Construction Group, Keystone Civil, or Mallee Engineering Services.

For the concrete lined pools (all pools except Wargan), the concrete was de-silted, cleaned, and repaired where required. Channel lining was carried out using Aqua 30 liners, supplied by Western Liner, which were installed over an 8 oz geofabric underlay.

Earthworks were done to remodel the cross-section of the Wargan pool before it was lined using a HDPE liner.

The channel works for which Phase 4 water savings have been estimated are listed in Table 3-1.

Table 3-1: Confirmation of modernisation works scope – Channel remediation works for which Phase 4 water savings have been estimated

Channel	Pool	Length of channel treated (m) [1]	GHD Design Drawing Reference	Notes
Mildura K channel	Irymple South	1,468	11-2641-067-C-300 - 307	
	Tex Pearts	894	11-2641-067-C-308 - 313	
	Dow	3,217	11-2641-067-C-314 - 327	
	Sandilong	1,689	11-2641-067-C-328 - 336	
	K Extension	733	11-2641-067-C-337 - 342	
Mildura L channel	Bakers	1,725	11-2641-067-C-200 - 209	Small sections previously lined.[2]
	Tankards	1,022	11-2641-067-C-210 - 216	
	92 Foot	783	11-2641-067-C-217 - 222	Small sections previously lined.[2] Approximately 40% of 92 Foot was pipelined, the remainder was lined.
	Fifth Street	897	11-2641-067-C-223 - 228	
	L Extension	701	11-2641-067-C-229 - 234	Small sections previously lined. [2]
Merbein	Wargan	6,507	13-2621-032-C-001 - 024	Earthen channel, lined with HDPE

[1]The length of channel treated shown here is based on the GHD (2025) report.
[2] Prior to SWEP, small sections of channel lining occurred in response to complaints or evidence of excessive seepage. These works were not previously used to claim water savings.

The audit has confirmed that the scope of channel remediation works, for which Phase 4 water savings have been estimated, is consistent with the scope of the SWEP works completed and commissioned during winter 2024.

3.1.2 Channel asset removal works

Channel sections that were pipelined as part of the 2024 winter works were designed by GHD and constructed by either Water Excavations or Makar Group.

The pipelining works for which Phase 4 water savings have been estimated are listed in Table 3-2.

Table 3-2: Confirmation of modernisation works scope – Channel asset removal works for which Phase 4 water savings have been estimated

Channel	Pool	Length of channel treated (m) [1]	GHD Design Drawing Reference	Notes
Mildura L channel	92 Foot & Morris [3]	1,095	11-2641-069-C-001 - 006	Approximately 40% of 92 Foot was pipelined, the remainder was lined.
Merbein	Knifes Edge	270	13-2621-033-C-001 - 010	Previously partially lined.[2]

[1]The length of channel treated shown here is based on the GHD (2025) report.
[2] Prior to SWEP, small sections of channel lining occurred in response to complaints or evidence of excessive seepage. These works were not used to claim water savings.
[3] 92 Foot and Morris pools are located adjacent to each other

The audit has confirmed that the scope of channel asset removal works, for which Phase 4 water savings have been estimated, is consistent with the scope of the SWEP works completed and commissioned during winter 2024.

3.1.3 Service point removal

Service point removal works were undertaken by CFC Irrigation Services, All State Earthworks, or Northern Constructions.

Table 3-3 presents the scope of the service point removal works used by LMW in the Phase 4 water savings estimates.

Table 3-3: Confirmation of modernisation works scope – Service point removal works for which Phase 4 water savings have been estimated. The asset ID for each removed meter is listed in Appendix B.

Region	No. of outlets	GHD Design Drawing Reference
Merbein	99	00-2641-067-S-001 - 014
Red Cliffs	216	
Wargan	1	
Total	**316**	

The audit has confirmed that the scope of outlet decommissioning works, for which Phase 4 water savings have been estimated, is consistent with the scope of the SWEP works completed and commissioned during winter 2024.

3.1.4 Service point replacement

Service point replacement works were undertaken by Northern Constructions. All outlets were replaced with magnetic flow meters.

Table 3-4 presents the scope of the service point replacement works used by LMW in the Phase 4 water savings estimates.

Table 3-4: Confirmation of modernisation works scope – Service point replacement works for which Phase 4 water savings have been estimated.

Region	Asset ID	Outlet Number	GHD Design Drawing Reference
Wargan	226665	3441	00-2641-067-S-001 - 014
	226661	3445	
	241867	3460	
	226618	3470	

The audit has confirmed that the scope of service point replacement works, for which Phase 4 water savings have been estimated, is consistent with the scope of the SWEP works completed and commissioned during winter 2024.

3.2 Verification of modernisation works

In line with the Protocol's audit scope, HARC has undertaken random and targeted checks of the available records and data to verify that the modernisation works were implemented as documented.

HARC's verification of the modernisation works used in LMW's Phase 4 water savings estimates was based on:

- the digital construction records provided to the audit by LMW (see Appendix A and Appendix D)
- site inspections conducted on the 22 October 2025

HARC's findings are documented in Section 3.2.1 (channel remediation), Section 3.2.2 (channel asset removal), Section 3.2.3 (service point removal), and Section 3.2.4 (service point replacement).

3.2.1 Channel remediation works

The digital construction records for the channel lining construction works were:

- As constructed drawings
- Issued for construction (IFC) drawings
- Inspection and test plans (ITPs)
- Photos

HARC randomly selected one pool from each channel where lining took place. For these pools, the digital construction records were audited, and the site was visited. The findings from these activities are presented in Table 3-5, and photos from the site inspections are in Appendix C.

Table 3-5: Verification of modernisation works–Audit findings from channel remediation works record trailing

Channel	Pool	Evidence assessed	Audit findings
Mildura K Channel	Dow	IFC drawings, as constructed drawings, signed & completed ITPs, pre- and post-construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Mildura L Channel	Fifth Street	IFC drawings, as constructed drawings, signed & completed ITPs, pre- and post-construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	Wargan	IFC drawings, as constructed drawings, signed & completed ITPs, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.

Based on the records and data provided by LMW, and site inspections, the audit has found sufficient evidence to support a limited assurance (ASAE 3000) finding that the scope of channel remediation works confirmed in Section 3.1.1 and used in LMW's Phase 4 water savings estimates has been completed.

3.2.2 Channel asset removal works

The digital construction records for the pipelining construction works were equivalent to those provided for the channel lining works (see Section 3.2.1).

As the scope of pipelining works was modest, HARC has verified all pipelining works for which Phase 4 water savings were estimated. The findings are presented in Table 3-6, and photos from the site inspections are in Appendix C.

Table 3-6: Verification of modernisation works–Audit findings from channel asset removal works record trailing

Channel	Pool	Evidence assessed	Audit findings
Mildura L channel	92 Foot & Morris	IFC drawings, as constructed drawings, signed & completed ITPs, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	Knifes Edge	IFC drawings, as constructed drawings, signed & completed ITPs, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.

Based on the records and data provided by LMW, and site inspections, the audit has found sufficient evidence to support a limited assurance (ASAE 3000) finding that the scope of channel asset removal works confirmed in Section 3.1.2 and used in LMW's Phase 4 water savings estimates has been completed.

3.2.3 Service point removal

The digital construction records for the service point removal construction works were:

- Standard constructions drawings (i.e., applicable to all meters)
- As constructed drawings
- Site data sheets
- ITPs
- Photos

HARC selected five decommissioned meters in Merbein and eight decommissioned meters in Red Cliffs, based on their proximity to the channels and pipeline that were inspected during the site visit. For these meters, the digital construction records were audited, and the site was visited. The findings from these activities are presented in Table 3-7, and photos from the site inspections are in Appendix C.

Table 3-7: Verification of modernisation works–Audit findings from service point removal record trailing

Region	Asset ID	Evidence assessed	Audit findings
Merbein	310724	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Dethridge wheel not visible in pre-construction photos, but pit clearly visible. However, sufficient evidence that works were completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	310721	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	310720	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	310718	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Merbein	310717	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	241818	As constructed drawings, partially completed ITP, pre-construction photos, construction photos, Visually confirmed during site visit.	ITP only partially completed and not signed. However, sufficient evidence that works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	315708	As constructed drawings, signed & completed ITP, site data sheet, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.

Region	Asset ID	Evidence assessed	Audit findings
Red Cliffs	315706	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	241817	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	241861	As constructed drawings, signed & completed ITP, site data sheet, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	290221	As constructed drawings, signed & completed ITP, pre- and post-construction photos, construction photos. Visually confirmed during site visit	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	315665	As constructed drawings, signed & completed ITP, site data sheet, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Red Cliffs	315682	As constructed drawings, signed & completed ITP, site data sheet, pre- and post-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.

Based on the records and data provided by LMW, and site inspections, the audit has found sufficient evidence to support a limited assurance (ASAE 3000) finding that the scope of service point removal works confirmed in Section 3.1.3 and used in LMW's Phase 4 water savings estimates has been completed.

3.2.4 Service point replacement

The digital construction records for the service point replacement works were equivalent to those provided for the outlet decommissioning works (see Section 3.2.3).

HARC randomly selected two of the four replaced meters. For these meters, the digital construction records were audited, and the site was visited. The findings from these activities are presented in Table 3-8, and photos from the site inspections are in Appendix C.

Table 3-8: Verification of modernisation works–Audit findings from service point replacement works record trailing

Region	Asset ID	Evidence assessed	Audit findings
Wargan	241867	Signed & completed ITP, site data sheet, pre-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.
Wargan	226618	Signed & completed ITP, site data sheet, pre-construction photos, construction photos. Visually confirmed during site visit.	Works completed, commissioned and consistent with the Phase 4 water savings estimates.

Based on the records and data provided by LMW as well as site inspections, the audit has found sufficient evidence to support a limited assurance (ASAE 3000) finding that the scope of service point replacement works confirmed in Section 3.1.4 and used in LMW's Phase 4 water savings estimates has been completed.

3.3 Review of record management

A full examination of the SWEP's quality management systems for the data, documents and records underpinning the estimation of the Phase 4 water savings is not required under the Protocol's water savings audit scope. The scope does, however, include a review of whether the data collection and inputs are as accurate as could reasonably be expected for estimating water savings.

To address this requirement the audit examined the record management practices and the business systems that were used to collect and manage the SWEP's records.

HARC found that the record management practices were similar to those described in the first SWEP audit (HARC, 2023). HARC notes that all aspects of project management, procurement, contract and construction management relevant to the delivery, completion and closeout of the SWEP have been independently audited and certified (1 August 2023) as meeting the ISO 9001:2015 quality management system standard.

Survey123, an ESRI ArcGIS app, was used to capture field data, photos, ITPs, day sheets, safety inspections, traffic management plans, material checklists, and private land access agreements. Pre- and post-construction photos were taken through the app, which stored meta data including location, date/time, and ID. These features were demonstrated during the site visit and facilitated the verification of the commission and completion of works.

HARC finds that, in addition to its ISO 9001:2015 accredited quality management systems, the LMW use of *Survey123* supports confidence in the management of the inputs used in the estimation of the Phase 4 water savings.

3.4 Findings and recommendations

The findings of HARC's audit of the SWEP 2024 winter works are presented in Table 3-9.

Table 3-9: Audit of irrigation modernisation works – Findings and recommendations

Audit findings	Audited in
The audit has confirmed that the scope of works, for which the Phase 4 water savings were estimated, is consistent with the scope of SWEP works completed and commissioned as part of the 2024 winter works.	Section 3.1
The audit has determined, based on the verification of a sample of works, and within the scope of a limited assurance engagement (ASAE 3000), that there is sufficient evidence to support the conclusion that the works have been constructed, completed and are consistent with the water savings estimates.	Section 3.2
The audit found that the SWEP has clear and established record management practices, as part of its ISO 9001:2015 accredited quality management systems, that support confidence in the data and inputs being as accurate as could reasonably be expected for estimating water savings.	Section 3.3

Based on these assessments, HARC is satisfied that the following audit criteria have been met.

Criteria 1 – The irrigation modernisation works, for which savings are estimated, have been completed and commissioned and are consistent with the water savings estimates.

Criteria 2 – The inputs used in the estimation of the water savings are as accurate as could reasonably be expected and the processes and systems for their collection and management support confidence in their accuracy.

4. Audit of the water savings estimates

This section documents HARC's audit of LMW's Phase 4 water savings estimates for the SWEP, excluding those already audited in 2023. Unless stated otherwise, all discussions of LMW works in Section 4 refer to the verified modernisation works (Section 3).

The works for which LMW's Phase 4 water savings estimates have been audited are:

- channel lining (Section 4.1)
- channel asset removal (Section 4.2)
- service point removal (Section 4.3)
- service point replacement (Section 4.4).

These water savings estimates have been audited using the following criteria:

Criteria 3 – The methods used to estimate the water savings are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 4 – The inputs used in the water savings calculations are consistent with the Protocol or have been approved by DEECA ED-WRS.

Criteria 5 – The water savings calculations are performed correctly.

The audit against these criteria addresses or contributes to addressing the following Protocol audit scope requirements:

- Verify that the water savings estimates have been made in accordance with the Protocol.
- Confirm that water savings have been estimated based on the nature and the extent of all irrigation modernisation works.
- Determine whether the data collection and inputs are as accurate as could reasonably be expected for estimating water savings.
- Provide a corrected estimate of the water savings for any component where the project proponent's calculations are found to be non-compliant with the Protocol.

4.1 Water savings from channel remediation

Water savings from channel remediation are achieved through the reduction of seepage and bank leakage.

LMW calculated that the SWEP 2024 winter channel remediation works delivered 1048 ML LTAAY (GHD, 2025, p.40) of water savings.

The estimation of water savings from channel remediation are primarily dealt with in Chapter 12 of the Protocol. Chapter 12, along with the broader Protocol methods and data it references, has therefore been used as the basis for HARC's evaluation of the audit criteria above. The following discussion documents the evaluation.

4.1.1 Audit of the method(s) used to estimate the water savings

The Protocol states that Phase 4 water savings from channel remediation are calculated using the sum of the estimated long-term water savings from the reduction of channel seepage and bank leakage (Equation 4-1).

$$\mathbf{WS_{LTCE}} = \mathbf{WS_{seepage(LTCE)}} + \mathbf{WS_{bank\ leakage(LTCE)}} \quad (4\text{-}1)$$

Where

$\mathbf{WS_{LTCE}}$	Estimated total long-term water savings from channel remediation (ML LTCE)
$\mathbf{WS_{seepage(LTCE)}}$	Estimated long-term seepage water savings from channel remediation (ML LTCE)
$\mathbf{WS_{bank\ leakage(LTCE)}}$	Estimated total long-term bank leakage water savings from channel remediation (ML LTCE)

Additionally, it establishes a basis for estimating the long-term water savings from the reduction of seepage and bank leakage through channel remediation works, using pondage tests pre-works and post-works (Equation 4-2 and 4-3).

$$\mathbf{WS_{seepage(LTCE)}} = (\mathbf{S^{Pre\ Works}} - \mathbf{S^{Post\ Works}}) \times \mathbf{DF} \quad (4\text{-}2)$$

$$\mathbf{WS_{bank\ leakage(LTCE)}} = ((\mathbf{PT^{Pre\ Works}} - \mathbf{PT^{Post\ Works}}) \times \mathbf{F(PA)} - (\mathbf{S^{Pre\ Works}} - \mathbf{S^{Post\ Works}})) \times (\mathbf{VL} \times \mathbf{F(LTCE_{Base})} + \mathbf{FL})) \times \mathbf{DF} \quad (4\text{-}3)$$

The Protocol provides the following calculation (Equation 4-4) for estimating the total seepage and bank leakage loss (PT) from a channel using pondage test data. Note, the seepage loss (S) is calculated using the same equation but a different subset of the pondage test data.

$$\mathbf{PT} = [\mathbf{W} \times \mathbf{CPL} \times [\Delta\mathbf{d} - \mathbf{E} + \mathbf{R}] \times \mathbf{T} \times \mathbf{Y}] - \mathbf{N} \times (\mathbf{LTA} + \mathbf{LTT}) \quad (4\text{-}4)$$

Having audited the method used by LMW to estimate the Phase 4 water savings from channel remediation, HARC notes the following:

- Pre- and post-works pondage tests were undertaken for all channels that underwent remediation works; however, many pondage test results were discarded. This is discussed in audit note 1, Section 4.1.1.1.
- Except for the Wargan pool, the pondage testing showed no evidence of bank leakage. In this case, an alternative method was applied to calculate the bank leakage loss. This alternative method was found to be unsuitable (HARC, 2025). Further, LMW has not received approval from DEECA ED-WRS to use this alternative method. Therefore, bank leakage savings - with the exception of the Wargan pool - have not been included in the audited Phase 4 water savings.
- The Protocol notes that for bank leakage water savings, if the channels are not at or above supply level for 100% of the irrigation season, the estimated F(PA) factor should be adjusted down. Instead of factoring F(PA), LMW opted to replace T (length of a standard irrigation season) in Equation 4-4 with $T_{\text{At or above supply level}}$ (length of a standard irrigation season where the channels are at or above supply level). This approach is consistent with the Protocol.

HARC finds that the method used for the estimation of the Phase 4 channel remediation water savings associated with seepage was consistent with the Protocol. The method used to estimate bank leakage savings for the Wargan pool was also consistent with the Protocol. For the other channels, the method used to estimate bank leakage savings was not consistent with the Protocol, and has not received formal approval from DEECA ED-WRS. Therefore, the bank leakage savings estimated for these channels have not been included in the audited Phase 4 water savings for the SWEP.

4.1.1.1 Audit note 1–Pondage tests

Table 4-1 and Table 4-2 summarise the pre- and post-works pondage test results, respectively. 4 out of 10 pre-works and 8 out of 12 post-works pondage tests were considered unreliable and discarded. For the pools where this occurred, pondage test results from a different pool on the same channel was adopted.

Table 4-1: Phase 4 channel remediation water savings–Pre-works pondage tests usage in water savings estimates

Channel	Pool	Usage in water savings estimates	Notes
Mildura K channel	Irymple South	Discarded	The upstream regulator recorded unexplained fluctuations in water level. The results were considered unreliable.
	Tex Pearts	Discarded	Post-works seepage higher than pre-works. Discarded both.
	Dow	Discarded	Fluctuations in water level indicated water entering and exiting the pool. Seepage rate higher post-works.
	Sandilong	Used for Sandilong, Dow, Tex Pearts and Irymple South	Sandilong and K Extension were isolated together during pre-construction pondage testing.
	K Extension	Used for K Extension	See above.
Mildura L channel	Bakers	Used for Bakers	
	Tankards	Used for Tankards	
	92 Foot	Used for 92 Foot	
	Fifth Street	Used for Fifth Street and L Extension	
	L Extension	Discarded	Seepage rate considered relatively high, and thus unreliable.
Merbein	Wargan	Used for Wargan	Pondage test showed bank leakage and seepage.

Table 4-2: Phase 4 channel remediation water savings–Post-works pondage tests usage in water savings estimates

Channel	Pool	Usage in water savings estimates	Notes
Mildura K channel	Irymple South	Discarded	The calculated seepage rate was negative and thus considered unreliable.
	Tex Pearts	Discarded	Post-works seepage higher than pre-works. Discarded both.
	Dow	Used for Dow, Tex Pearts and Irymple South, Sandilong and K Extension	
	Sandilong	Discarded	The calculated seepage rate was negative and thus considered unreliable.
	K Extension	Discarded	Tested twice. The first test results were discarded because customers drew water from the pool. The second seepage test results were considered relatively low, and less reliable as the pondage test was conducted over a shorter period.
Mildura L channel	Bakers	Used for Bakers, Tankards, Fifth St and L Extension	
	Tankards	Discarded	Fluctuations suggested the pool was not isolated. The results were considered unreliable.
	92 Foot	Used for 92 Foot	

Channel	Pool	Usage in water savings estimates	Notes
	Fifth Street	Discarded	Pondage test results were affected by a leak into a piped spur. Results were considered unreliable.
	L Extension	Discarded	Two pipes were observed leaking during the test. Results considered unreliable.
Merbein	Wargan	Used for Wargan	

The Protocol does not provide guidance on the use of pondage test data from adjacent, nearby, or similar channels within the irrigations system to estimate losses. The channel lining and remediation works did differ slightly in small sections of some pool (e.g., lining could not be installed under some bridges, liner was attached to the side of the concrete channel rather than over the concrete channel for small sections of some pools). However, the adopted pondage test results are representative overall of the works done, and it is HARC's view that the assumptions made provide an appropriate basis for estimating the pre- and post-works losses within these pools. It also demonstrates the uncertainties associated with estimates of water savings.

4.1.2 Audit of the inputs used to estimate the water savings

Table 4-3 summarises the inputs used to estimate the Phase 4 seepage and bank leakage water savings.

Table 4-3: Phase 4 channel remediation water savings–Inputs used in the estimation of the seepage and bank leakage water savings

Parameter	Description	Value	Source	Audit findings
W	Average channel surface width (m)	Pool dependent	Site survey data, adopted a lower figure where the width varied.	Consistent with the Protocol
CPL	Length of channel pool (m)	Pool dependent	Site survey data	See audit note 2 (Section 4.1.2.1)
Δd	Rate of change in water level for pondage test data (m/d)	Pool dependent	Calculated from pondage test data	Consistent with the Protocol
E	Evaporation (m/d)	Pool dependent	Mildura Airport (Bureau of Meteorology)	See audit note 3 (Section 4.1.2.2)
R	Rainfall (m/d)	Pool dependent	Mildura Airport (Bureau of Meteorology)	See audit note 3 (Section 4.1.2.2)
T	Length of a standard irrigation season (days)	365	LMW	Consistent with the Protocol
$T_{\text{At or above supply level}}$	Length of a standard irrigation season where the channels are at or above supply level (days). Used to calculate bank leakage loss for Wargan.	140	Calculated as the average number of days at or above supply level in 2023 from Dow, Sandilong, K Ext and Tankards	Using site specific data is more defensible. In this context, HARC finds this estimation acceptable.
Y	Factor to convert from m³ to ML	0.001	Physical constant	Consistent with the Protocol
N	Number of Dethridge meter and open outlet service points within the channel section	0	Not considered in calculations	See audit note 4 (Section 4.1.2.3)
LTA	Leakage around service points (ML/SP/year)	0.4	LMW	See audit note 5 (Section 4.1.2.4)
LTT	Leakage through service points (ML/SP/year)	0.0001	LMW	See audit note 5 (Section 4.1.2.4)

Parameter	Description	Value	Source	Audit findings
DF	Durability factor	0.95	LMW (GHD, 2025)	See audit note 6 (Section 4.1.2.5)
$F(PA)$	Factor to adjust pondage test data to account for additional losses under operating conditions	1.39	Protocol	See audit note 6 (Section 4.1.2.5)
$F(LTCE_{Base})$	Conversion factor for long-term cap equivalent	1	LMW (GHD, 2025)	See audit note 6 (Section 4.1.2.5)
VL	Proportion of bank leakage loss that is variable	0.65	Protocol	Consistent with the Protocol
FL	Proportion of bank leakage loss that is fixed	0.35	Protocol	Consistent with the Protocol

4.1.2.1 Audit note 2–CPL

The lengths of channel pool (CPL) adopted in the water savings calculations were verified against the as constructed drawings provided. The discrepancies are summarised in Table 4-4. It is also noted that the channel lengths states in the GHD (2025) report differ from those used in the calculations.

For all the pools except for Tex Pearts, the CPL derived from the as constructed drawings were slightly longer than those adopted in the calculations. This may be because the adopted CPL excluded the unlined sections adjacent to the regulator structures. However, the CPL should be consistent with the length of channel isolated during the pondage test.

Table 4-4: Phase 4 channel remediation water savings–CPL used in water savings calculations compared to those derived from as constructed drawings.

Channel	Pool	CPL used in calculations (m)	CPL derived from as constructed drawings (m)	Difference
Mildura K channel	Irymple South	1,473	1,523	+50
	Tex Pearts	1,494	916	-578
	Dow	3,259	3,275	+16
	Sandilong	1,689	1,693	+4
	K Extension	733	733	-
Mildura L channel	Bakers	1,725	2,073	+348
	Tankards	1,022	1,049	+27
	92 Foot	783	890	+107
	Fifth Street	897	922	+25
	L Extension	701	733	+32
Merbein	Wargan	6,507	6,603[1]	+96

[1]According to design drawings, because the provided as constructed drawings would not correctly render

The CPL used in the water savings calculations did not match the as constructed drawings in some instances. HARC has re-estimated the Phase 4 water savings using CPLs derived from the as constructed drawings (Table 4-4).

4.1.2.2 Audit note 3–Evaporation and rainfall rate

The evaporation and rainfall rates during the pondage tests were calculated by summing daily evaporation and rainfall measured at Mildura Airport on the days the pondage test was done, and dividing by the duration of the pondage test. An example for evaporation is shown below:

$$\frac{2.1\ \text{mm/d}\ +1.7\ \text{mm/d}\ +1.6\ \text{mm/d}}{2.5\ \text{days}} = 2.2\ \text{mm/d}$$

This is incorrect, because three days of evaporation data is divided by less than three. When corrected, the result is:

$$\frac{(2.1\ \text{mm/d}\ \times 0.5\ \text{days})\ +(1.7\ \text{mm/d} \times 1\ \text{day})\ +(1.6\ \text{mm/d} \times 1\ \text{day})}{2.5\ \text{days}} = 1.8\ \text{mm/d}$$

Additionally, in some cases pan evaporation data was used without applying a pan factor, and/or the data used did not align with the pondage test period.

The evaporation and rainfall rates used in the water savings calculations was found to be incorrect. These evaporation and rainfall rates were corrected by HARC, and used to re-estimate the Phase 4 water savings.

4.1.2.3 Audit note 4–Number of Dethridge meters within channel section

There were 5 Dethridge meters on the Wargan pool pre-works. To estimate leakage through and around Dethridge meters located on channels, LMW use an LTA of 0.4 ML/SP/year and an LTT of 0.0001 ML/SP/year respectively (see audit note 5, Section 4.1.2.4). However, this leakage was not accounted for in the pre-works pondage test. Although a small volume (2 ML/year), it should be included in the pondage test calculations.

There were 5 Dethridge meters present in the Wargan pool during pre-works pondage test which were not considered in the water savings calculations. The pondage test results were corrected, and used to re-estimate the Phase 4 water savings.

4.1.2.4 Audit note 5–LTA and LTT

Based on Goulburn Murray Irrigation District (GMID) Dethridge meter loss data, the Protocol specifies unit loss values through and around Dethridge meters of 1.9 ML/SP/year and 0.4 ML/SP/year respectively. Recognising the difference between the LMW and GMID irrigation distribution systems, LMW have adopted unit loss values that more appropriately represent their own system (Table 4-5).

Table 4-5: Adopted factors for leakage through (LTT) and leakage around (LTA) Dethridge meters.

Factor	Dethridge meters on channels (ML/SP/year)	Dethridge meters on pipelines (ML/SP/year)
LTT	0.0001	0.0001
LTA	0.4[1]	0.00004
[1]Consistent with the Protocol		

HARC notes that these variations to the Protocol were formally approved by DEECA ED-WRS in 2022 (A. May, personal communication, undated).

4.1.2.5 Audit note 6–DF, F(PA) and F(LTCE$_{Base}$)

LMW adopted the following factors:

- Long-term cap equivalent factor for the baseline year (F(LTCE$_{Base}$)) – 1
- Durability factor for channel lining (DF) – 95%
- Pondage test adjustment factor (F(PA)) – 1.39

These factors were approved for the calculation of water savings from the SWEP by DEECA ED-WRS (B Ashworth, personal communication, 20 December 2023), and found to be acceptable by HARC (2025).

HARC notes that these factors were formally approved by DEECA ED-WRS in 2023.

4.1.3 Audit of the water savings calculations

HARC examined the Excel spreadsheets used to perform the water savings calculations. Specifically, HARC has:

- checked that the input parameters sourced from the Protocol or adopted by LMW were applied correctly in the calculations
- checked that the formulas used in the calculations were consistent with the estimation method

An Excel error resulted in the wrong cell being referenced when calculating bank leakage water savings for the Wargan pool. Revised calculations that address this error, and include the changes required to the method (Section 4.1.1) and inputs (Section 4.1.2), are presented in Table 4 6, Table 4 7, Table 4-8, and Table 4-9. These calculations are the basis for the audited water savings presented in Table 4-10.

Table 4-6: Phase 4 channel remediation water savings – Calculation of the pre works seepage volume ($S^{Pre\ Works}$). The cells in orange show where corrections were made.

Pool	W (m)	CPL (m)	Δd (m/d)	E (m/d)	R (m/d)	T (d)	Y	N	LTA	LTT	$S^{Pre\ Works}$ (ML)
Irymple South[1]	7	1,523	0.034	0.0021	0.0009	365	0.001	0	0.4	0.0001	128
Tex Pearts[1]	8	927	0.034	0.0021	0.0009	365	0.001	0	0.4	0.0001	89
Dow[1]	7.5	3,275	0.034	0.0021	0.0009	365	0.001	0	0.4	0.0001	296
Sandilong[1]	6	1,693	0.034	0.0021	0.0009	365	0.001	0	0.4	0.0001	122
K Extension[1]	4.2	733	0.034	0.0021	0.0009	365	0.001	0	0.4	0.0001	37
Bakers	9	2,073	0.028	0.0019	0	365	0.001	0	0.4	0.0001	177
Tankards	6.6	1,049	0.021	0.0019	0	365	0.001	0	0.4	0.0001	48
92 Foot	6.4	890	0.025	0.0018	0.0013	365	0.001	0	0.4	0.0001	50
Fifth Street	5.8	922	0.034	0.0018	0.0013	365	0.001	0	0.4	0.0001	64
L Extension[2]	5.8	733	0.034	0.0018	0.0013	365	0.001	0	0.4	0.0001	51
Wargan	7.6	6,603	0.020	0.0050	0	365	0.001	5	0.4	0.0001	291

[1]Used pondage test results from Sandilong and K Extension (which were isolated together)
[2]Used pondage test results from Fifth Street

Table 4-7: Phase 4 channel remediation water savings – Calculation of the pre works bank leakage and seepage volume ($PT^{Pre\ Works}$). The cells in orange show where corrections were made.

Pool	W (m)	CPL (m)	Δd (m/d)	E (m/d)	R (m/d)	$T_{At\ or\ above\ supply\ level}$ (d)	Y	N	LTA	LTT	$PT^{Pre\ Works}$ (ML)
Wargan	7.6	6,603	0.037	0.0023	0	140	0.001	5	0.4	0.0001	244

Table 4-8: Phase 4 channel remediation water savings – Calculation of the post works seepage volume ($S^{Post\ Works}$). The cells in orange show where corrections were made.

Pool	W (m)	CPL (m)	Δd (m/d)	E (m/d)	R (m/d)	T (d)	Y	N	LTA	LTT	$S^{Post\ Works}$ (ML)
Irymple South[1]	7	1,523	0.0076	0.0009	0	365	0.001	0	0.4	0.0001	27
Tex Pearts[1]	8	927	0.0076	0.0009	0	365	0.001	0	0.4	0.0001	19
Dow	7.5	3,275	0.0076	0.0009	0	365	0.001	0	0.4	0.0001	63
Sandilong[1]	6	1,693	0.0076	0.0009	0	365	0.001	0	0.4	0.0001	26
K Extension[1]	4.2	733	0.0076	0.0009	0	365	0.001	0	0.4	0.0001	8
Bakers	9	2,073	0.0120	0.0025	0	365	0.001	0	0.4	0.0001	68
Tankards[2]	6.6	1,049	0.0120	0.0025	0	365	0.001	0	0.4	0.0001	25
92 Foot	6.4	890	0.0114	0.0025	0	365	0.001	0	0.4	0.0001	19
Fifth Street[2]	5.8	922	0.0120	0.0025	0	365	0.001	0	0.4	0.0001	20
L Extension[2]	5.8	733	0.0120	0.0025	0	365	0.001	0	0.4	0.0001	16
Wargan	7.6	6,603	0.0074	0.0025	0	365	0.001	0	0.4	0.0001	92

[1]Used pondage test results from Dow
[2]Used pondage test results from Bakers

Table 4-9: Phase 4 channel remediation water savings – Calculation of the post works bank leakage and seepage volume ($PT^{Post\ Works}$). The cells in orange show where corrections were made. Note, the post-works pondage test for Wargan showed no evidence of bank leakage, thus the pondage test rates are the same as the seepage rates in Table 4-8.

Pool	W (m)	CPL (m)	Δd (m/d)	E (m/d)	R (m/d)	$T_{At\ or\ above\ supply\ level}$ (d)	Y	N	LTA	LTT	$PT^{Post\ Works}$ (ML)
Wargan	7.6	6,603	0.0074	0.0025	0	140	0.001	0	0.4	0.0001	35

4.1.4 Audited water savings

The audited estimate of Phase 4 water savings from channel remediation works are presented in Table 4-10.

Table 4-10: Audited Phase 4 water savings from channel remediation.

Channel	Pool	$WS_{seepage}$ (ML LTCE)	$WS_{bank\ leakage}$ (ML LTCE)	WS_{LTCE} (ML/yr)
Mildura K channel	Irymple South	96	-	96
	Tex Pearts	67	-	67
	Dow	221	-	221
	Sandilong	92	-	92
	K Extension	28	-	28
Mildura L channel	Bakers	104	-	104
	Tankards	22	-	22
	92 Foot	30	-	30
	Fifth Street	43	-	43
	L Extension	34	-	34
Merbein	Wargan	190	203	392
	Total	**925**	**203**	**1,128**

4.2 Water savings from channel asset removal

Water savings from channel asset removal are achieved through the elimination of seepage, bank leakage and evaporation losses. Where channels are replaced with pipelines, residual losses from these pipelines needs to be accounted for in the estimation of water savings.

LMW calculated that the SWEP 2024 winter channel asset removal works delivered 116 ML LTAAY (GHD, 2025, p.40) of water savings.

The estimation of savings from channel asset removal are primarily dealt with in Chapter 8 of the Protocol. Chapter 8, along with the broader Protocol methods and data it references, has therefore been used as the basis for HARC's evaluation of the audit criteria. The following discussion documents the evaluation.

4.2.1 Audit of the method(s) used to estimate the water savings

The Protocol states that Phase 4 water savings from channel asset replacement are calculated using the sum of the estimated long-term water savings from the elimination of channel seepage, bank leakage and evaporation, less the residual loss associated with the replacement pipeline (Equation 4-5).

$$\mathbf{WS_{LTCE} = WS_{seepage(LTCE)} + WS_{bank\ leakage(LTCE)} + WS_{evaporation(LTCE)} - R} \quad (4\text{-}5)$$

Where

$\mathbf{WS_{LTCE}}$	Estimated total long-term water savings from channel replacement (ML LTCE)
$\mathbf{WS_{seepage(LTCE)}}$	Estimated long-term seepage water savings from channel replacement (ML LTCE)

$WS_{bank\ leakage(LTCE)}$	Estimated total long-term bank leakage water savings from channel replacement (ML LTCE)
$WS_{evaporation(LTCE)}$	Estimated total long-term evaporation water savings from channel replacement (ML LTCE)
R	Residual pipe loss (0.6 ML/km/year)[2] (ML LTCE)

Water savings associated with reduced seepage, bank leakage and evaporation are calculated by multiplying baseline year loss estimates with the ratio of the total length of channel(s) being replaced to the total length of channels in the distribution system (CL) (Equations 4-6, 4-7, and 4-8). The residual pipe loss is calculated using Equation 4-9.

$$WS_{seepage(LTCE)} = S_{Base} \times CL \times EF \times DF \quad (4\text{-}6)$$

$$WS_{bank\ leakage\ (LTCE)} = [(L_{Base} \times FL) + (L_{Base} \times VL \times F(LTCE_{Base}))] \times CL \times EF \times DF \quad (4\text{-}7)$$

$$WS_{evaporation\ (LTCE)} = E_{Base} \times CL \times EF \times DF \quad (4\text{-}8)$$

$$R = R_{rate} \times L_{Pipe} \quad (4\text{-}9)$$

Having audited the method used by LMW to estimate the Phase 4 water savings from channel asset removal, HARC notes the following:

- LMW opted to use pondage test data to estimate channel seepage losses and savings, as per the Protocol's theoretical Phase 4 method (see Equation 4-2).
- Pre-works pondage tests were conducted for both the 92 Foot and Morris pools. The test results showed no evidence of bank leakage but were considered reliable for seepage estimates.
- Pre-works pondage tests were not conducted for the Knife's Edge pool. Test results from the Wargan pool, which is also located in Merbein, were therefore adopted. However, Knife's Edge was a partially lined concrete channel, whereas Wargan was an earthen channel. Therefore, Wargan pre-works pondage test results were not considered representative of Knife's Edge.
- Evaporation savings were calculated using Equation 4-10. This is consistent with Section 4.4 of the Protocol.

$$WS_{evaporation(LTCE)} = \frac{(E \times PEF) - R}{1{,}000{,}000} \times Area \times CWF \times time \quad (4\text{-}10)$$

- A residual loss, for the pipeline replacing the channel, was calculated using the low-pressure pipeline method specified in the Protocol.

HARC finds that the method used to estimate the Phase 4 water savings from removing the 92 Foot and Morris pools is consistent with the Protocol. However, using pondage test data from the Wargan pool is not appropriate for estimating the water savings from removing the Knife's Edge pool due to differences in channel characteristics. Instead, an average of the pre-works seepage rates for the concrete section of Knife's Edge and an average of the post-work seepage rates for the plastic lined section of Knife's Edge can be used.

[2] This applies to low pressure pipelines (<15 m head) with diameter ≤1200 mm

4.2.2 Audit of the inputs used to estimate the water savings

The inputs used to estimate the Phase 4 savings from channel and asset removal are summarised in Table 4-11 and Table 4-12. Table 4-13 summarises the inputs used to estimate the loss from the pipeline that replaced the removed channels.

Table 4-11: Phase 4 channel asset removal water savings–Inputs used in the estimation of the long-term seepage savings

Parameter	Description	Value	Source	Audit findings
W	Average channel surface width (m)	Pool dependent	Site survey data, adopted a lower figure where the width varied.	Consistent with the Protocol
CPL	Length of channel pool (m)	Pool dependent	Site survey data	See audit note 7 (Section 4.2.2.1)
Δd	Rate of change in water level for pondage test data (m/d)	Pool dependent	Calculated from pondage test data	Consistent with the Protocol
E	Evaporation (m/d)	Pool dependent	Mildura Airport (Bureau of Meteorology)	See audit note 3 (Section 4.1.2.2)
R	Rainfall (m/d)	Pool dependent	Mildura Airport (Bureau of Meteorology)	See audit note 3 (Section 4.1.2.2)
T	Length of a standard irrigation season (days)	365	LMW	Consistent with the Protocol
Y	Factor to convert from m³ to ML	0.001	Physical constant	Consistent with the Protocol
N	Number of Dethridge meter and open outlet service points within the channel section	0	Not considered in calculations	No Dethridge meters within the relevant channel sections
LTA	Leakage around service points (ML/SP/year)	0.4	LMW	See audit note 5 (Section 4.1.2.4)
LTT	Leakage through service points (ML/SP/year)	0.0001	LMW	See audit note 5 (Section 4.1.2.4)
EF	Efficiency factor	1	Protocol	Consistent with the Protocol
DF	Durability factor	1	Protocol	Consistent with the Protocol
FL	Proportion of bank leakage loss that is fixed	0.35	Protocol	Consistent with the Protocol

Table 4-12: Phase 4 channel asset removal water savings–Inputs used in the estimation of the long-term evaporation savings

Parameter	Description	Value	Source	Audit findings
E	Average daily evaporation (mm/d)	5.76	BoM's long-term average gridded dataset of pan evaporation (based on at least 10 years of data between 1975 to 2005)	Consistent with the Protocol
PEF	Pan evaporation factor	0.846	Based on the PEF for Mildura Airport from McMahon et al. supplementary paper (2013)	Consistent with the Protocol

Parameter	Description	Value	Source	Audit findings
R	Average daily rainfall (mm/d)	0.78	Taken from BoM's long-term average gridded dataset of rainfall (based on data between 1991 to 2020).	Consistent with the Protocol
Area	Surface area (m2)	Pool dependent	Based on survey data of channel width (W) and length (CPL).	See audit note 7 (Section 4.2.2.1)
CWF	Channel width factor – calculated as the ratio of actual bank width to recorded bank width	1	Not considered.	Used to account for the deterioration of channel banks over time. Not applicable to concrete lined channels. Consistent with the Protocol.
time	Number of days	365	Days in a year	Consistent with the Protocol

Table 4-13: Phase 4 channel asset removal water savings–Inputs used in the estimation of the residual pipeline loss

Parameter	Description	Value	Source	Audit findings
R_{rate}	Residual loss rate for a low pressure pipeline (ML/km/year)	0.6	Protocol	Consistent with the Protocol. The new pipelines meet the classification of a low-pressure pipeline—i.e., the diameter is ≤ 1200 mm and the elevation head < 15 m.
L_{pipe}	Replacement pipeline length (km)	Pool dependent	Site survey data	See audit note 7 (Section 4.2.2.1)

4.2.2.1 Audit note 7–CPL and L_{pipe}

Similar to the audit findings of the CPL adopted for the channel remediation water savings (Section 4.1.2.1), there were some discrepancies found in the CPL and L_{pipe} adopted to estimate the water savings from channel asset removal (Table 4-14 and Table 4-15). These discrepancies are only minor and have little impact on the calculated water savings.

Table 4-14: Phase 4 channel asset removal water savings–CPL used in water savings calculations compared to those derived from as design drawings.

Channel	Pool	CPL used in calculations (m)	CPL derived from as design drawings (m)	Difference
Mildura L channel	92 Foot	614	608	-6
	Morris	482	481	-1
Merbein	Knife's Edge	270	270	0

Table 4-15: Phase 4 channel asset removal water savings– L_{pipe} used in water savings calculations compared to those derived from as constructed drawings.

Channel	Pool	L_{pipe} used in calculations (m)	L_{pipe} derived from as constructed drawings (m)	Difference
Mildura L channel	92 Foot	614	608	-6
	Morris	482	481	-1
Merbein	Knife's Edge	115	113[1]	-2
[1]According to design drawings, because the provided as constructed drawings did not have chainages				

The CPL and Lpipe used in the water savings calculations did not match the as constructed drawings in some instances. HARC has re-estimated the Phase 4 water savings using lengths derived from the as constructed drawings (Table 4-14 and Table 4-15). These differences are minor and do not have a significant impact on the estimated water savings.

4.2.3 Audit of the water savings calculations

HARC examined the Excel spreadsheets used to perform the water savings calculations. Specifically, HARC has:

- checked that the input parameters sourced from the Protocol or adopted by LMW were applied correctly in the calculations
- checked that the formulas used in the calculations were consistent with the estimation method

HARC finds that the water savings calculations for channel remediation were performed correctly. Revised calculations after corrections are made to the method (Section 4.2.1) and inputs (Section 4.2.2) are presented in Table 4-16, Table 4-17, and Table 4-18. These calculations are the basis for the audited water savings presented in Table 4-19.

Table 4-16: Phase 4 channel asset removal water savings – Calculation of the pre works seepage ($S^{Pre\ Works}$). The cells in orange show where corrections were made.

Pool	W (m)	CPL (m)	Δd (m/d)	E (m/d)	R (m/d)	T (d)	Y	N	LTA	LTT	$S^{Pre\ Works}$ (ML)
92 Foot	6.4	608	0.025	0.0018	0.0013	365	0.001	0	0.4	0.0001	34
Morris	6.5	481	0.053	0.0024	0	365	0.001	0	0.4	0.0001	57
Knife's Edge (concrete)[1]	7.6	170	0.031			365	0.001	0	0.4	0.0001	15
Knife's Edge (plastic lined)[2]	7.6	100	0.008			365	0.001	0	0.4	0.0001	2

[1]Used average pre-works pondage test results from concrete channels
[2]Used average post-works pondage test results from plastic lined concrete channels

Table 4-17: Phase 4 channel asset removal water savings – Calculation of the evaporation savings ($WS_{evaporation}$). The cells in orange show where corrections were made.

Pool	E (mm/d)	PEF	R (mm/d)	Area	CWF	time (d)	$WS_{evaporation}$ (ML LTCE)
92 Foot	5.76	0.846	0.78	3,891	1	365	6
Morris	5.76	0.846	0.78	3,127	1	365	5
Knife's Edge	5.76	0.846	0.78	2,052	1	365	3

Table 4-18: Phase 4 channel asset removal water savings – Calculation of the residual pipeline loss (R). The cells in orange show where corrections were made.

Pool	R_{rate} (ML/km/year)	L_{pipe} (km)	R (ML LTCE)
92 Foot	0.6	0.60	0.4
Morris	0.6	0.48	0.3
Knife's Edge	0.6	0.11	0.1

4.2.4 Audited water savings

The audited estimate of Phase 4 water savings from channel asset removal are presented in Table 4-19.

Table 4-19: Audited Phase 4 water savings from channel asset removal.

Channel	Pool	$WS_{seepage}$ (ML LTCE)	$WS_{bank\ leakage}$ (ML LTCE)	$WS_{evaporation}$ (ML LTCE)	R (ML LTCE)	WS_{LTCE} (ML/yr)
Mildura L channel	92 Foot	34	-	6	0.4	40
	Morris	57	-	5	0.3	61
Merbein	Knife's Edge	17	-	3	0.1	20
	Total	108	-	14	0.7	121

4.3 Water savings from service point removal

Water savings from service point removal are achieved through the reduction of meter error, unauthorised use and leakage associated with Dethridge meters.

LMW calculated that the SWEP 2024 winter service point removals delivered 284 ML LTAAY (GHD, 2025, p.41) of water savings.

The estimation of savings from service point removal are primarily dealt with in Chapter 11 of the Protocol. Chapter 11, along with the broader Protocol methods and data it references, has therefore been used as the basis for HARC's evaluation of the audit criteria. The following discussion documents the evaluation.

4.3.1 Audit of the method(s) used to estimate water savings

The Protocol states that Phase 4 water savings from service point removal come from the reduction or elimination of meter error, leakage through service points, leakage around service points, unmetered use and unauthorised use (Equation 4-11).

$$\mathbf{WS_{LTCE}} = \mathbf{WS_{meter\ error(LTCE)}} + \mathbf{WS_{leakage\ through(LTCE)}} + \mathbf{WS_{leakage\ around(LTCE)}} + \mathbf{WS_{unmetered(LTCE)}} + \mathbf{WS_{unauthorised(LTCE)}} \quad (4\text{-}11)$$

Where

$\mathbf{WS_{LTCE}}$	Estimated total long-term water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{meter\ error(LTCE)}}$	Estimated long-term meter error water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{leakage\ through(LTCE)}}$	Estimated long-term leakage through service points water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{\ leakage\ around(LTCE)}}$	Estimated long-term leakage around service points water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{unmetered(LTCE)}}$	Estimated long-term unmetered use water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{unauthorised(LTCE)}}$	Estimated long-term unauthorised use water savings from outlet decommissioning (ML LTCE)

The following calculations from the Protocol are used to estimate each component of the water savings that arise from service point removal:

$$\mathbf{WS_{meter\ error(LTCE)}} = \mathbf{D_{MBase}} \times (\mathbf{MCF} - \mathbf{1}) \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Base})} \quad (4\text{-}12)$$

$$\mathbf{WS_{leakage\ through(LTCE)}} = \mathbf{N_{rationalised}} \times \mathbf{LTT} \times \mathbf{EF} \times \mathbf{DF} \quad (4\text{-}13)$$

$$\mathbf{WS_{leakage\ around(LTCE)}} = \mathbf{N_{rationalised}} \times \mathbf{LTA} \times \mathbf{EF} \times \mathbf{DF} \quad (4\text{-}14)$$

$$\mathbf{WS_{unmetered(LTCE)}} = \mathbf{D_{UBase}} \times (\mathbf{MCF} - \mathbf{1}) \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Base})} \quad (4\text{-}15)$$

$$\mathbf{WS_{unauthorised(LTCE)}} = \mathbf{N_{rationalised}} \times \mathbf{U_{Base}} \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Base})} \quad (4\text{-}16)$$

Having audited the method used by LMW to estimate Phase 4 water savings from service point removal, HARC notes that no water savings associated with unmetered use or meter error were calculated. This is because all the removed service points were inactive.

HARC finds that the method used to estimate Phase 4 water savings from service point removal is consistent with the Protocol.

4.3.2 Audit of the inputs used to estimate the water savings

Table 4-20 summarises the inputs adopted by LMW to estimate the Phase 4 water savings from service point removal.

Table 4-20: Phase 4 service point removal water savings–Inputs used to estimate the water savings.

Region	Parameter	Description	Value	Source	Audit finding
Merbein	$\mathbf{N_{rationalised}}$	Number of Dethridge meter or open outlet service points removed	99	LMW (GHD, 2025)	Consistent with the Protocol
Red Cliffs	$\mathbf{N_{rationalised}}$	Number of Dethridge meter or open outlet service points removed	216	LMW (GHD, 2025)	Consistent with the Protocol
Wargan	$\mathbf{N_{rationalised}}$	Number of Dethridge meter or open outlet service points removed	1	LMW (GHD, 2025)	Consistent with the Protocol
All	$\mathbf{MCF}$	Meter correction factor to correct the indicated volumes measured by Dethridge meters, or deemed at open outlet or unmetered service points	1.086	Protocol	Consistent with the Protocol
	$\mathbf{F(LTCE_{Base})}$	Conversion factor for long-term cap equivalent	1	LMW (GHD, 2025)	See audit note 6 (Section 4.1.2.5)
	$\mathbf{LTT}$	Leakage through service points in the baseline year (ML/SP/year)	0.0001	LMW	See audit note 5 (Section 4.1.2.4)
	$\mathbf{LTA}$	Leakage around service points in the baseline year (ML/SP/year)	0.4 for meters on channel, 0.00004 for meters on pipeline	LMW	See audit note 5 (Section 4.1.2.4)

Region	Parameter	Description	Value	Source	Audit finding
	U_{Base}	Unauthorised use losses in the baseline year (ML/SP/year)	0.9	Protocol	Consistent with the Protocol
	EF	Efficiency factor	1	Protocol	Consistent with the Protocol
	DF	Durability factor	1	Protocol	Consistent with the Protocol
	D_{UBase}	Baseline year customer deliveries through open outlet or unmetered service that were removed (ML)	0	No unmetered use considered	Consistent with the Protocol
	D_{MBase}	Baseline year customer deliveries through removed meters (ML)	0	No deliveries considered	Consistent with the Protocol

HARC finds that the inputs used to estimate the Phase 4 water savings from service point removal are consistent with the Protocol.

4.3.3 Audit of the water savings calculations

HARC examined the Excel spreadsheets used to perform the water savings calculations. Specifically, HARC has:

- checked that the input parameters sourced from the Protocol or adopted by LMW were applied correctly in the calculations
- checked that the formulas used in the calculations were consistent with the estimation method

HARC finds that the water savings from service point removal were calculated correctly, except for one meter located on the Wargan pool, for which an incorrect LTA was used (0.00004 ML/yr instead of 0.4 ML/yr). This calculation was corrected and informed the audited water savings presented in Table 4-21.

4.3.4 Audited water savings

The audited estimate of Phase 4 water saving from service point removal are presented in Table 4-21.

Table 4-21: Audited Phase 4 water savings from service point removal.

Region	$WS_{meter\ error}$ (ML LTCE)	$WS_{leakage\ through}$ (ML LTCE)	$WS_{leakage\ around}$ (ML LTCE)	$WS_{unauthorised}$ (ML LTCE)	$WS_{unmetered}$ (ML LTCE)	WS_{LTCE} (ML/yr)
Merbein	-	0.01	0.004	89	-	89
Red Cliffs	-	0.02	0.009	194	-	194
Wargan	-	0.0001	0.4	0.9	-	1
Total	**-**	**0.03**	**0.4**	**284**	**-**	**285**

4.4 Water savings from service point replacement

Water savings from service point replacement are achieved through the reduction of meter error, unauthorised use and leakage associated with Dethridge meters.

LMW calculated that the SWEP 2024 winter service point replacements delivered 15 ML LTAAY (GHD, 2025, p.41) of water savings.

The estimation of savings from service point replacement are primarily dealt with in Chapter 10 of the Protocol. Chapter 10, along with the broader Protocol methods and data it references, has therefore been used as the basis for HARC's evaluation of the audit criteria. The following discussion documents the evaluation.

4.4.1 Audit of the method(s) used to estimate water savings

The Protocol states that Phase 4 water savings from service point replacement come from the reduction or elimination of meter error, leakage through service points, leakage around service points, unmetered use and unauthorised use (Equation 4-17).

$$\mathbf{WS_{LTCE}} = \mathbf{WS_{meter\ error(LTCE)}} + \mathbf{WS_{leakage\ through(LTCE)}} + \mathbf{WS_{leakage\ around(LTCE)}} + \mathbf{WS_{unmetered(LTCE)}} + \mathbf{WS_{unauthorised(LTCE)}} \quad (4\text{-}17)$$

Where

$\mathbf{WS_{LTCE}}$	Estimated total long-term water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{meter\ error(LTCE)}}$	Estimated long-term meter error water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{leakage\ through(LTCE)}}$	Estimated long-term leakage through service points water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{\ leakage\ around(LTCE)}}$	Estimated long-term leakage around service points water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{unmetered(LTCE)}}$	Estimated long-term unmetered use water savings from outlet decommissioning (ML LTCE)
$\mathbf{WS_{unauthorised(LTCE)}}$	Estimated long-term unauthorised use water savings from outlet decommissioning (ML LTCE)

The following calculations from the Protocol are used to estimate each component of the water savings that arise from service point replacement.

$$\mathbf{WS_{meter\ error(LTCE)}} = \mathbf{D_{MYearx}} \times (\mathbf{1/MCF}) \times (\mathbf{MCF - 1}) \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Yearx})} \quad (4\text{-}18)$$

$$\mathbf{WS_{leakage\ through(LTCE)}} = \mathbf{N_{replaced}} \times \mathbf{LTT} \times \mathbf{EF} \times \mathbf{DF} \quad (4\text{-}19)$$

$$\mathbf{WS_{leakage\ around(LTCE)}} = \mathbf{N_{replaced}} \times \mathbf{LTA} \times \mathbf{EF} \times \mathbf{DF} \quad (4\text{-}20)$$

$$\mathbf{WS_{unmetered(LTCE)}} = \mathbf{D_{MYearx}} \times (\mathbf{1/MCF}) \times (\mathbf{MCF - 1}) \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Yearx})} \quad (4\text{-}21)$$

$$\mathbf{WS_{unauthorised(LTCE)}} = \mathbf{N_{replaced}} \times \mathbf{U_{Base}} \times \mathbf{EF} \times \mathbf{DF} \times \mathbf{F(LTCE_{Yearx})} \quad (4\text{-}22)$$

Having audited the method used by LMW to estimate Phase 4 water savings from service point replacement, HARC notes the following:

- No water savings associated with unmetered use were calculated. This is because all replaced service points were metered.
- For water savings associated with meter error and unauthorised use, LMW opted to use the Protocol's Phase 4 service point removal method (Equations 4-12 and 4-16). This is consistent with the Protocol, which states that if $F(LTCE_{YearX})$ is not available, the Phase 4 equation for service point removal can be used to estimate the savings from service point replacement.

HARC finds that the method used to estimate the Phase 4 water savings from service point replacement is consistent with the Protocol.

4.4.2 Audit of the inputs used to estimate the water savings

Table 4-22 and Table 4-23 summarises the inputs adopted by LMW to estimate the Phase 4 water savings from service point replacement. Note that all service point replacements occurred in the Wargan pool.

Table 4-22: Phase 4 service point replacement water savings–Inputs used to estimate the water savings. Note, EF and DF are described in Table 4-23.

Parameter	Description	Value	Source	Audit finding
$N_{replaced}$	Number of Dethridge meter or open outlet service points replaced	4	LMW (GHD, 2025)	Consistent with the Protocol
MCF	Meter correction factor to correct the indicated volumes measured by Dethridge meters, or deemed at open outlet or unmetered service points	1.086	Protocol	Consistent with the Protocol
$F(LTCE_{Base})$	Conversion factor for long-term cap equivalent	1	LMW (GHD, 2025)	See audit note 6 (Section 4.1.2.5)
LTT	Leakage through service points in the baseline year (ML/SP/year)	0.0001	LMW	See audit note 5 (Section 4.1.2.4)
LTA	Leakage around service points in the baseline year (ML/SP/year)	0.4	LMW	See audit note 5 (Section 4.1.2.4)
U_{Base}	Unauthorised use losses in the baseline year (ML/SP/year)	0.9	Protocol	Consistent with the Protocol
D_{UBase}	Baseline year customer deliveries through open outlet or unmetered service that were removed (ML)	0	No unmetered use considered	Consistent with the Protocol
D_{MBase}	Baseline year customer deliveries through removed meters (ML)	Meter dependent	Based on meter readings during the baseline year (2005/06)	Consistent with the Protocol

Table 4-23: Phase 4 service point replacement water savings–EF and DF used to estimate the water savings. Note, the same EF and DFs were used across all audited projects and stages.

Parameter	Description	WS Component	Value	Source	Audit finding
EF	Effectiveness factor	Unauthorised use for meter replacement	0.8	Protocol	Consistent with the Protocol
		Leakage through for meter replacement	1	Protocol	A factor of 1 applies to automated service points. Consistent with the Protocol.
		Leakage around for meter replacement	1	Protocol	Consistent with the Protocol
		Meter error for meter replacement	1	Protocol	Consistent with the Protocol
		Unmetered for meter replacement	-	Protocol	Not used as D_{UBase} is 0. Consistent with the Protocol.
DF	Durability factor	Unauthorised use for meter replacement	1	Protocol	Consistent with the Protocol
		Leakage through for meter replacement	0.8	Protocol	Consistent with the Protocol
		Leakage around for meter replacement	0.85	Protocol	A factor of 0.85 applies to new meters designed to lower engineering standards. Consistent with the Protocol.
		Meter error for meter replacement	1	Protocol	Consistent with the Protocol
		Unmetered for meter replacement	-	Protocol	Not used as D_{UBase} is 0. Consistent with the Protocol.

HARC finds that the inputs used to estimate the Phase 4 water savings from service point replacement are consistent with the Protocol.

4.4.3 Audit of the water savings calculations

HARC examined the Excel spreadsheets used to perform the water savings calculations. Specifically, HARC has:

- checked that the input parameters sourced from the Protocol or adopted by LMW were applied correctly in the calculations
- checked that the formulas used in the calculations were consistent with the estimation method

HARC finds that the water savings for the replaced meters, which are located on a channel, was calculated using the incorrect LTA (0.00004 ML/yr instead of 0.4 ML/yr). This same error was identified in the water savings calculations for service point removal (Section 4.3.2). The calculations were corrected and informed the audited water savings presented in Table 4-24.

4.4.4 Audited water savings

The audited estimate of Phase 4 water savings from service point replacement are presented in Table 4-24.

Table 4-24: Audited Phase 4 water savings from service point replacement

Region	$WS_{meter\ error}$ (ML LTCE)	$WS_{leakage\ through}$ (ML LTCE)	$WS_{leakage\ around}$ (ML LTCE)	$WS_{unauthorised}$ (ML LTCE)	$WS_{unmetered}$ (ML LTCE)	WS_{LTCE} (ML/yr)
Wargan	13	0.0004	1.6	3.6	-	17
Total	**13**	**0.0004**	**1.6**	**3.6**	**-**	**17**

4.5 Findings and recommendations

The findings of HARC's audit of the Phase 4 water savings from channel remediation, channel asset removal, service point removal, and service point replacement are presented in Table 4-25.

Table 4-25: Phase 4 water savings estimates–Audit findings

Criteria	Works audited	Audited in	Audit findings	Actions
Criteria 3–The method(s) used to estimate the water savings are consistent with the Protocol or have been approved by DEECA ED-WRS.	Channel remediation	Section 4.1.1	Except for the Wargan pool, a method that differed from the Protocol was used to estimate bank leakage water savings.	This alternative method did not receive formal approval from DEECA ED-WRS and thus was omitted from the audited water savings.
	Channel asset removal	Section 4.2.1	Pondage test results from the Wargan pool were used to estimate water savings from removing the Knife's Edge pool. This is not justified, because of the differences in channel characteristics.	The average seepage rates derived from pondage test results from comparable channels were adopted for the Knife's Edge pool.
	Service point removal & replacement	Section 4.3.1 & 4.4.1	The methods used to estimate Phase 4 water savings from service point removal and replacement were consistent with the Protocol.	
Criteria 4–The inputs used in the water savings calculations are consistent with the Protocol or have been approved by DEECA ED-WRS.	Channel remediation	Section 4.1.2	HARC identified the following: ▪ The adopted channel pool lengths (CPL) differed from the as constructed drawings ▪ The pondage test evaporation and rainfall rates were not calculated correctly ▪ The 5 Dethridge meters present in the Wargan pool pre-works were not considered in the pondage test calculations	HARC made the necessary corrections.
	Channel asset removal	Section 4.2.2	The adopted CPL and length of pipeline (L_{pipe}) differed slightly from as constructed drawings. Additionally, the pondage test evaporation and rainfall rates were not calculated correctly.	HARC made the necessary corrections.
	Service point removal & replacement	Section 4.3.2 & 4.4.2	The inputs used to estimate Phase 4 water savings from service point removal and replacement were consistent with the Protocol.	

Criteria	Works audited	Audited in	Audit findings	Actions
Criteria 5–The water savings calculations are performed correctly.	Channel remediation	Section 4.1.3	An Excel error resulted in the wrong cell being referenced when calculating bank leakage savings for the Wargan pool.	HARC made the necessary corrections.
	Channel asset removal	Section 4.2.3	The water savings calculations were performed correctly.	
	Service point removal & replacement	Section 0 & 0	For meters located on the Wargan pool, the incorrect leakage around the service point (LTA) was applied.	

4.6 Verification using water balances

Section 13 of the Protocol recommends checking the accuracy of the water savings estimates by comparing them with water balances for irrigation distribution systems before and after modernisation.

LMW provided HARC with the records of inflows and deliveries for Mildura, Merbein, and Red Cliffs for 2005-06 (the baseline year) and 2024-25 (the latest water year available). A comparison of these two years, as well as of a theoretical year where the deliveries were the same as in 2005-06 occurred but the efficiencies matched 2024-25, is shown in Table 4-26. Water savings can be estimated by subtracting the 2005-06 losses (15.7 GL) from the 2005-06 losses calculated assuming 2024-25 efficiency (7.0 GL).

Table 4-26: Phase 4 audited water savings estimates–Verification using water balances

WY	District	Inflow (ML)	Deliveries (ML)	Losses (ML) (Inflow – Deliveries)	Efficiency (%) (Deliveries/Inflow)
2005-06	Mildura	51,044	42,754	8,290	84%
	Merbein	27,543	23,778	3,765	86%
	Red Cliffs	39,171	35,499	3,672	91%
	Total	**117,758**	**102,031**	**15,727**	**87%**
2024-25	Mildura	39,375	37,536	1,839	95%
	Merbein	21,907	21,140	767	96%
	Red Cliffs	38,067	34,167	3,900	90%
	Total	**99,349**	**92,842**	**6,507**	**93%**
2005-06 with 2024-25 efficiencies	Mildura	44,849	42,754	2,095	95%
	Merbein	24,641	23,778	863	96%
	Red Cliffs	39,551	35,499	4,052	90%
	Total	**109,041**	**102,031**	**7,010**	**94%**

Using this water balance method results in estimated water savings of 8.7 GL. Subtracting the water savings claimed from the Sunraysia Modernisation Project (SMP) of 7.8 GL (Cardno, 2016) leaves 0.9 GL of water savings potentially attributable to the SWEP.

0.9 GL is significantly lower than the audited Phase 4 water savings of approximately 1.8 GL. This difference is perhaps not surprising, because the SWEP works were still taking place in 2024/25, and therefore the efficiencies gained are not fully captured in the 2024/25 data.

HARC recommends that LMW revisits this verification of the water savings using water balances for the irrigation districts once data for the 2025/26 water year is available. This is important to check that the irrigation districts can be sustainably operated with the loss provisions that remain in Bulk Entitlements after water shares created from the savings are handed over to the CEWH. This verification process may also demonstrate that the modernisation works have achieved more savings than have been audited, at which point LMW could consider making an additional claim.

4.7 Conclusions

The audited Phase 4 water savings volumes from the SWEP, excluding those associated with water savings already audited in 2023 was **1,550 ML (LTAAY)**. This is 87 ML higher than LMW reported estimate of 1,463 ML (LTAAY). These changes were predominately due to:

- Correcting the spreadsheet error in the bank leakage savings calculation for the Wargan pool
- Omitting bank leakage savings estimated using methods inconsistent with the Protocol
- Correcting the calculation of pondage test evaporation and rainfall rates

The HARC (2023) audited water savings from SWEP works completed and commissioned by 31 August 2023 was 314 ML (LTAAY). The total audited water savings from SWEP is therefore **1,864 ML (LTAAY)**.

It is recommended that the verification of the water savings using water balances (Section 4.6) is revisited once data is available for the 2025/26 water year (i.e. the first full year of operating the modernised system). This is important to check that the irrigation districts can be sustainably operated with the loss provisions that remain in Bulk Entitlements after water shares created from the savings are handed over to the CEWH. This verification process may also demonstrate that the modernisation works have achieved more savings than have been audited, at which point LMW could consider making an additional claim.

Table 4-27 and Figure 4-1 summarise the audited water savings per irrigation district and intervention type.

Table 4-27: Phase 4 audited estimated water savings estimates, by irrigation district and intervention.

		Water savings (ML LTCE)		
District	Intervention	HARC (2023)	This audit	Total
Merbein	Channel remediation	-	392	392
	Channel asset removal	-	20	20
	Service point removal	19	90	109
	Service point replacement	-	17	17
	District Total	*19*	*520*	*539*
Mildura	Channel remediation	83	735	818
	Channel asset removal	-	101	101
	District Total	*83*	*836*	*919*
Red Cliffs	Channel remediation	174	-	174
	Channel asset removal	19	-	19
	Service point removal	19	194	213
	District Total	*213*	*194*	*407*
Total		**314**	**1,550**	**1,864**

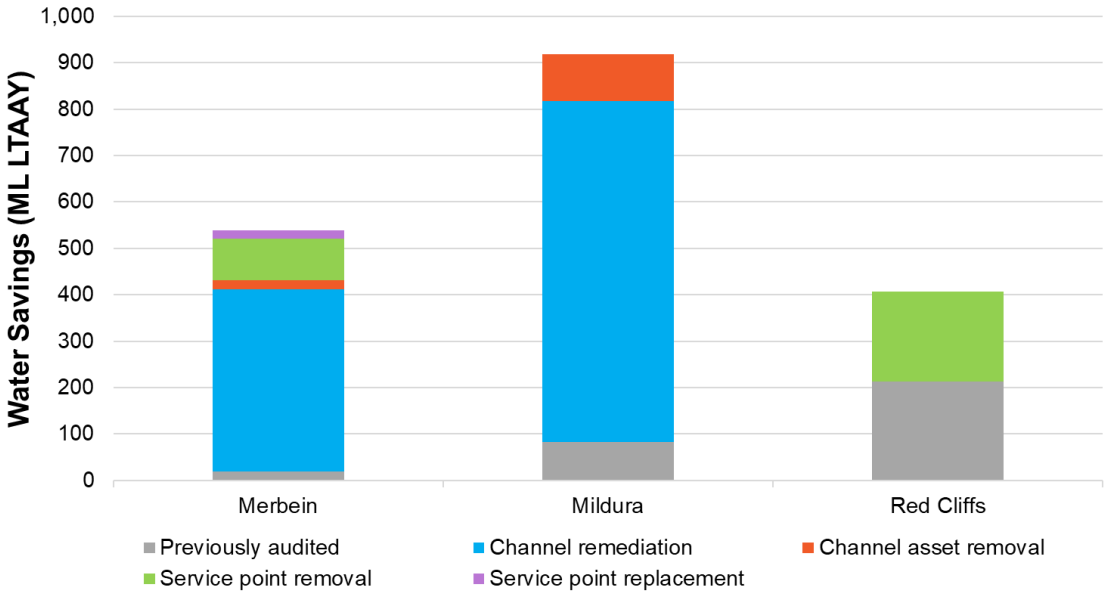

Figure 4-1: A summary of the phase 4 audited estimated water savings estimates, by irrigation district and intervention. The grey volume represents audited water savings from SWEP works completed and commissioned by 31 August 2023 (HARC, 2023).

5. Recommendations for the Protocol

Table 5-1 summarises the identified recommendations to improve the Protocol.

Table 5-1: Identified potential improvements to the Protocol.

Recommendation	Section	Description
Review adjustment to bank leakage water savings calculations for cases where the channel is not always at or above supply level for 100% of the irrigation season.	Section 12.4 Water saving equations for channel remediation	Note 3 for the theoretical phase 3 and 4 and direct phase 2, 3 and 4 equations states that the estimated F(PA) factor should be adjusted to account for the proportion of time the channels will be at, or above, supply level within the channel section that is remediated. However, only scaling F(PA) results in a mismatch in the period considered for PT (bank leakage and seepage) and S (seepage).
Add clarity to the approval process in cases where methods outside the Protocol are adopted.	Section B	Section B outlines the roles and responsibilities of organisation and individuals involved in irrigation modernisation projects. It states that the Minister for Water is responsible for considering water savings from a project or interventions not covered by the Protocol. However, the approval process could be clarified.

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Appendix A Document register

ID	File received	Description	Date	Received
#001	12597707 - RPT - 2 - WW2024 Water Savings .pdf	LMW SWEP Water Savings 2024 Winter Works	29/09/2025 (Revision 2)	06/10/2025
#002	12520997-RPT-1-LMW SWEP-Alternate Approaches used for LMW SWEP Water Recovery-Engineering Report.pdf	Alternate approaches used for LMW SWEP Water Recovery	29/09/2025 (Revision 1)	06/10/2025
#003	12520997-CAL_92 FOOT_2020 Validation DRAFT.xlsx	Draft water savings calculations for 92 Foot channel lining & pre-works pondage test data	11/09/2025	10/10/2025
#004	12520997-CAL_92 Ft & Morris Water Savings Post Con.xlsx	Water savings calculations for 92 Foot and Morris pipelining & post-works pondage test data	11/09/2025	10/10/2025
#005	12520997-CAL_Bakers Water Savings Post Con.xlsx	Water savings calculations for Baker's channel lining & post-works pondage test data	07/09/2025	10/10/2025
#006	12520997-CAL_BAKERS_2020 Validation DRAFT.xlsx	Draft water savings calculations for Baker's & pre-works pondage test data	24/11/2023	10/10/2025
#007	12520997-CAL_Dow_Tex Pearts_Irymple South Water Savings Post Con.xlsx	Water savings calculations for Dow, Tex Pearts and Irymple South, and post-works pondage test data for Dow	11/09/2025	10/10/2025
#008	12520997-CAL_Fifth St and L Ext Water Savings using Bakers Post Con.xlsx	Water savings calculations for Fifth St and L Ext, & post-works pondage test data for Fifth St	11/09/2025	10/10/2025
#009	12520997-CAL_FIFTH ST_2020 Validation DRAFT.xlsx	Draft water savings calculations for Fifth St & pre-works pondage test data	11/09/2025	10/10/2025
#010	12520997-CAL_K Ext Water Savings using Dow Post Con.xlsx	Water savings calculations for K Ext & post-works pondage test data	11/09/2025	10/10/2025
#011	12520997-CAL_K Ext_2023 Pondage Testing DRAFT.xlsx	Draft water savings calculations for K Ext & pre-works pondage test data	10/07/2025	10/10/2025
#012	12520997-CAL_Merbein Wargan_2023 Pondage Testing DRAFT.xlsx	Draft water savings calculations for Wargan & pre-works pondage test data	11/09/2025	10/10/2025
#013	12520997-CAL_Merbein_Wargan Water Savings Post Con.xlsx	Water savings calculations for and Wargan and Knifes Edge, & post-works pondage test data for Wargan	11/09/2025	10/10/2025
#014	12520997-CAL_MORRIS_2020 Validation DRAFT.xlsx	Draft water savings for Morris - including preconstruction pondage test results	24/11/2023	10/10/2025
#015	12520997-CAL_Sandilong Water Savings using Dow Post Con.xlsx	Water savings calculations for Sandilong & post-works pondage test data	11/09/2025	10/10/2025
#016	12520997-CAL_Sandilong_2023 Pondage Testing DRAFT.xlsx	Draft water savings calculations for Sandilong & pre-works pondage test data	11/09/2025	10/10/2025
#017	12520997-CAL_Tankards Water Savings Post Con.xlsx	Water savings calculations for Tankards & post-works pondage test data	11/09/2025	10/10/2025
#018	12520997-CAL_TANKARDS_2020 Validation DRAFT.xlsx	Draft water savings calculations for Tankards & pre-works pondage test data	11/09/2025	10/10/2025
#019	Construction Records (see Appendix D)	As constructed drawings, design drawings, ITPS, photos, and site data sheets	-	10/10/2025
#020	SWEP ISO Certificate - OHSAS-QMS-EMS-JAS-ANZ.pdf	SWEP ISO Certificates for ISO 9001:2015, ISO 45001:2018, ISO 14001:2015	01/08/2023	10/10/2025
#021	2024 001108 Letter from ED WRS to Managing Director LMW (part 1) - signed.pdf	DEECA letter of approval for use of alternative factors for F(LTCE), DF, F(PA)	20/12/2023	10/10/2025
#022	12520997-RPT-1-LMW SWEP-Alternate Approaches used for LMW SWEP Water Recovery-Engineering Report.pdf	Alternate approaches used for LMW SWEP Water Recovery	29/09/2025 (Revision 1)	10/10/2025
#023	12520997-CAL_2024 losses (leakage) DRAFT.xlsx	Bank leakage water savings calculations for the WW2024	11/09/2025	21/10/2025
#024	12520997-CAL_SMO Removal Water Savings.xlsx	SMO removal and replacement water savings	20/10/2025	21/10/2025
#025	MeterReadings 05-06 Outlet 3441 SMO 226665.pdf	Meter readings for SMO No 3441 in 2005-06	09/09/2025	21/10/2025
#026	MeterReadings 05-06 Outlet 3445 SMO 226661.pdf	Meter readings for SMO No 3445 in 2005-06	09/09/2025	21/10/2025
#027	MeterReadings 05-06 Outlet 3460 SMO 241867.pdf	Meter readings for SMO No 3460 in 2005-06	09/09/2025	21/10/2025
#028	MeterReadings 05-06 Outlet 3470 SMO 226618.pdf	Meter readings for SMO No 3470 in 2005-06	09/09/2025	21/10/2025
#029	12520997-CAL_Water Balance 2025.xlsx	Losses from the 2005-06 water balance	13/07/2025	21/10/2025

Appendix B List of decommissioned outlets

Table B-1: List of Dethridge meters that were removed as part of the SWEP 2024 winter works.

Region	Asset ID	Outlet Number
Merbein	310272	35
Merbein	310274	40
Merbein	310276	45
Merbein	310279	130
Merbein	310280	155
Merbein	310285	160
Merbein	310286	165
Merbein	310292	185
Merbein	310295	195
Merbein	310294	200
Merbein	310299	220
Merbein	310207	255
Merbein	310211	300
Merbein	310239	325
Merbein	310268	335
Merbein	310224	410
Merbein	310225	420
Merbein	310223	430
Merbein	310229	436
Merbein	310232	445
Merbein	310233	450
Merbein	310300	460
Merbein	310303	470
Merbein	310305	475
Merbein	310304	480
Merbein	310310	505
Merbein	310314	525
Merbein	310320	560
Merbein	310322	570
Merbein	310266	595
Merbein	310857	740
Merbein	310840	830
Merbein	310383	1045
Merbein	310422	1130
Merbein	310364	1135
Merbein	310351	1400
Merbein	310345	1455
Merbein	310346	1460
Merbein	310347	1465
Merbein	283311	1485
Merbein	310335	1625
Merbein	310805	1880
Merbein	310744	1885
Merbein	310793	2115
Merbein	310794	2120
Merbein	310762	2125
Merbein	310759	2190

Region	Asset ID	Outlet Number
Merbein	310577	2290
Merbein	310570	2330
Merbein	310578	2415
Merbein	310583	2460
Merbein	310683	2465
Merbein	310585	2470
Merbein	310549	2515
Merbein	310550	2520
Merbein	310588	2530
Merbein	310589	2535
Merbein	310594	2550
Merbein	310598	2580
Merbein	310553	2595
Merbein	310554	2600
Merbein	310555	2605
Merbein	310558	2635
Merbein	310490	2640
Merbein	310684	2645
Merbein	310491	2650
Merbein	310493	2660
Merbein	310612	2675
Merbein	310613	2680
Merbein	310602	2725
Merbein	310601	2730
Merbein	310510	2900
Merbein	310516	2920
Merbein	310517	2925
Merbein	310518	2955
Merbein	310519	2960
Merbein	310685	3016
Merbein	310667	3060
Merbein	310669	3065
Merbein	310663	3085
Merbein	310658	3100
Merbein	310655	3120
Merbein	310647	3150
Merbein	310652	3160
Merbein	310671	3215
Merbein	310674	3225
Merbein	310675	3235
Merbein	310724	3270
Merbein	310721	3284
Merbein	310720	3290
Merbein	310718	3295
Merbein	310717	3300
Merbein	310706	3340
Merbein	310708	3345
Merbein	310688	3360
Merbein	310690	3365
Merbein	310694	3385

Region	Asset ID	Outlet Number
Merbein	999901	12043
Merbein	999902	-
Red Cliffs	241861	2334
Red Cliffs	241875	5310
Red Cliffs	315466	5310
Red Cliffs	315469	5380
Red Cliffs	316292	5390
Red Cliffs	226969	5395
Red Cliffs	226970	5400
Red Cliffs	315473	5410
Red Cliffs	315476	5420
Red Cliffs	315477	5425
Red Cliffs	236823	5430
Red Cliffs	315482	5465
Red Cliffs	315483	5470
Red Cliffs	315792	5495
Red Cliffs	315938	5520
Red Cliffs	315807	5535
Red Cliffs	315941	5585
Red Cliffs	315943	5590
Red Cliffs	315944	5595
Red Cliffs	315927	5600
Red Cliffs	315926	5605
Red Cliffs	315922	5620
Red Cliffs	316315	5625
Red Cliffs	315920	5630
Red Cliffs	315945	5660
Red Cliffs	315946	5676
Red Cliffs	315907	5680
Red Cliffs	315908	5685
Red Cliffs	315909	5690
Red Cliffs	315910	5700
Red Cliffs	315911	5705
Red Cliffs	316323	5710
Red Cliffs	315914	5715
Red Cliffs	226767	5735
Red Cliffs	315903	5745
Red Cliffs	226990	5750
Red Cliffs	315933	5755
Red Cliffs	315932	5760
Red Cliffs	315931	5765
Red Cliffs	315929	5770
Red Cliffs	315789	5840
Red Cliffs	315991	5880
Red Cliffs	315988	5885
Red Cliffs	241791	5890
Red Cliffs	315998	5900
Red Cliffs	315999	5905
Red Cliffs	315978	5955
Red Cliffs	315979	5960

Region	Asset ID	Outlet Number
Red Cliffs	315949	6005
Red Cliffs	315951	6010
Red Cliffs	315967	6050
Red Cliffs	315965	6060
Red Cliffs	315956	6070
Red Cliffs	315958	6090
Red Cliffs	316324	6095
Red Cliffs	315963	6120
Red Cliffs	999911	6120
Red Cliffs	315795	6140
Red Cliffs	316319	6145
Red Cliffs	315798	6170
Red Cliffs	315800	6175
Red Cliffs	236773	6265
Red Cliffs	315487	6275
Red Cliffs	315486	6280
Red Cliffs	315488	6285
Red Cliffs	315492	6300
Red Cliffs	315494	6315
Red Cliffs	241792	6475
Red Cliffs	241793	6480
Red Cliffs	241794	6505
Red Cliffs	999908	6515
Red Cliffs	999909	6520
Red Cliffs	239207	6520
Red Cliffs	315597	6525
Red Cliffs	315579	6605
Red Cliffs	241796	6610
Red Cliffs	315604	6615
Red Cliffs	315605	6630
Red Cliffs	290612	6650
Red Cliffs	237324	6685
Red Cliffs	316068	6715
Red Cliffs	316337	6725
Red Cliffs	316336	6735
Red Cliffs	316072	6745
Red Cliffs	316078	6810
Red Cliffs	362480	6815
Red Cliffs	241827	6880
Red Cliffs	316086	6890
Red Cliffs	999914	6905
Red Cliffs	316100	6905
Red Cliffs	316101	6910
Red Cliffs	999913	6951
Red Cliffs	316090	6951
Red Cliffs	316092	6955
Red Cliffs	271674	6960
Red Cliffs	241829	6975
Red Cliffs	316094	6980
Red Cliffs	315581	7000

Region	Asset ID	Outlet Number
Red Cliffs	315582	7005
Red Cliffs	999906	7030
Red Cliffs	315544	7030
Red Cliffs	315540	7040
Red Cliffs	315541	7050
Red Cliffs	237233	7060
Red Cliffs	315558	7085
Red Cliffs	237218	7090
Red Cliffs	315557	7095
Red Cliffs	315556	7100
Red Cliffs	315554	7105
Red Cliffs	315551	7120
Red Cliffs	315533	7170
Red Cliffs	999905	7170
Red Cliffs	315532	7175
Red Cliffs	315530	7180
Red Cliffs	316334	7195
Red Cliffs	315529	7210
Red Cliffs	315527	7234
Red Cliffs	315516	7235
Red Cliffs	315528	7255
Red Cliffs	315585	7260
Red Cliffs	315567	7295
Red Cliffs	315504	7300
Red Cliffs	361737	7340
Red Cliffs	999904	7410
Red Cliffs	315590	7410
Red Cliffs	315592	7425
Red Cliffs	315593	7430
Red Cliffs	315559	7435
Red Cliffs	236805	7445
Red Cliffs	362432	7455
Red Cliffs	315534	7465
Red Cliffs	236794	7475
Red Cliffs	236789	7485
Red Cliffs	315536	7490
Red Cliffs	315537	7495
Red Cliffs	316004	7550
Red Cliffs	316006	7590
Red Cliffs	316008	7610
Red Cliffs	316014	7615
Red Cliffs	316012	7635
Red Cliffs	316114	7695
Red Cliffs	316117	7740
Red Cliffs	316174	7950
Red Cliffs	316245	8510
Red Cliffs	316165	8526
Red Cliffs	316032	8561
Red Cliffs	316048	8602
Red Cliffs	241806	8643

Region	Asset ID	Outlet Number
Red Cliffs	316051	8644
Red Cliffs	316054	8654
Red Cliffs	316060	8665
Red Cliffs	316061	8670
Red Cliffs	316062	8675
Red Cliffs	999915	8675
Red Cliffs	316065	8685
Red Cliffs	316057	8814
Red Cliffs	315668	8827
Red Cliffs	315742	8848
Red Cliffs	316318	8851
Red Cliffs	315744	8854
Red Cliffs	315634	8995
Red Cliffs	315639	9004
Red Cliffs	315655	9055
Red Cliffs	315682	9092
Red Cliffs	290221	9098
Red Cliffs	315773	9135
Red Cliffs	315774	9137
Red Cliffs	315715	9139
Red Cliffs	316020	9140
Red Cliffs	316019	9141
Red Cliffs	315712	9145
Red Cliffs	241818	9151
Red Cliffs	241817	9154
Red Cliffs	315708	9157
Red Cliffs	315706	9163
Red Cliffs	315813	9228
Red Cliffs	315814	9230
Red Cliffs	316320	9236
Red Cliffs	315817	9238
Red Cliffs	315819	9250
Red Cliffs	315820	9251
Red Cliffs	315823	9256
Red Cliffs	315825	9260
Red Cliffs	316321	9262
Red Cliffs	316322	9296
Red Cliffs	315886	9298
Red Cliffs	315884	9300
Red Cliffs	315866	9348
Red Cliffs	315840	9392
Red Cliffs	315900	9434
Red Cliffs	315475	-
Red Cliffs	287550	-
Red Cliffs	290881	-
Red Cliffs	290921	-
Red Cliffs	290922	-
Red Cliffs	288590	-
Red Cliffs	288566	-
Red Cliffs	287426	-

Region	Asset ID	Outlet Number
Red Cliffs	241862	-
Red Cliffs	315976	-
Red Cliffs	315653	-
Red Cliffs	315656	-
Red Cliffs	315665	-
Red Cliffs	999900	-
Red Cliffs	364522	-
Red Cliffs	364697	-
Red Cliffs	215352	-
Red Cliffs	290218	8990
Red Cliffs	289575	-
Red Cliffs	289576	-
Red Cliffs	290924	-
Red Cliffs	315613	6335
Red Cliffs	315640	9007
Red Cliffs	315631	8983
Red Cliffs	315881	9308
Red Cliffs	362690	8488
Wargan	226658	3450

Appendix C Site visit photos

Table B-2, Table B-3, Table B-4, and Table B-5 shows a sample of the post-construction photos taken during the site visit for the channel remediation, channel asset removal, service point removal and service point replacement, respectively.

Table B-2: Photos taken of completed channel remediation works as part of the audit site visit

Channel	Pool	Photo(s)
Mildura K Channel	Dow	
Mildura L Channel	Fifth Street	

Channel	Pool	Photo(s)
Merbein	Wargan	

Table B-3: Photos taken of completed channel asset removal works as part of the audit site visit

Channel	Pool	Photo(s)
Mildura L channel	92 Foot and Morris	 

Channel	Pool	Photo(s)
Merbein	Knifes Edge	 

Table B-4: Photos taken of completed service point removal works as part of the audit site visit

Region	Asset ID	Photo(s)
Merbein	310724	
Merbein	310721	

Region	Asset ID	Photo(s)
Merbein	310720	
Merbein	310718	

Region	Asset ID	Photo(s)
Merbein	310717	
Red Cliffs	241818 & 241817	

Region	Asset ID	Photo(s)
Red Cliffs	315708 & 241861	
Red Cliffs	315706	

Region	Asset ID	Photo(s)
Red Cliffs	290221	
Red Cliffs	315665	

Region	Asset ID	Photo(s)
Red Cliffs	315682	

Table B-5: Photos taken of completed service point replacement works as part of the audit site visit

Region	Asset ID	Photo(s)
Merbein	241867	

Region	Asset ID	Photo(s)
Merbein	226618	

Appendix D Supplementary Document Register

The following sections contain lists of the names of the files within the folders “01 Wargan Channel”, “02 K Channel”, “03 L Channel”, “04 L Pipeline”, “05 Knifes Edge Pipeline” and “06 SMO Works” provided to us.

01 Wargan Channel

- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH0-300.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH1350-1650.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH1800 -2100.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH2250-2550.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH2700-CH3000.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH3150-3450.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH3600-3900.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH4050.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH4200-6380.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH450-750.pdf
- As Con Drawings\1. Earthwork As Cons\Pre-Liner Level Survey CH900-1200.pdf
- As Con Drawings\2. Lining As Cons\Lining As Constructed CH0-6605.pdf
- As Con Drawings\3. Fencing\5420.51 SWEP FENCING AS-CON.pdf
- IFC Drawings\12597707-DRG-0_LMW SWEP - Merbein Wargan Channel Lining_IFC_0.pdf
- ITPs\In-channel works ITP CH0-1200.pdf
- ITPs\In-channel works ITP CH1200-3420.pdf
- ITPs\In-channel works ITP CH3420-3980.pdf
- ITPs\In-channel works ITP CH3980 - 4779.pdf
- ITPs\In-channel works ITP CH4779-6605.pdf
- ITPs\Iso Beam - CH1003.pdf
- ITPs\Iso Beam - CH1998.pdf
- ITPs\Iso beam - CH2996.pdf
- ITPs\Iso beam - CH4186.pdf
- ITPs\Iso beam - CH4198.pdf
- ITPs\Iso beam - CH4503.pdf
- ITPs\Iso beam - CH4517.pdf
- ITPs\Iso beam - CH5520.pdf
- ITPs\Iso beam - CH6390.pdf
- ITPs\Iso beam - CH6450.pdf
- ITPs\Iso beam - CH6605.pdf
- ITPs\Lining Installation ITP - CH1710-3000.pdf
- ITPs\Lining Installation ITP - CH1710-3000_REV2.pdf
- ITPs\Lining Installation ITP - CH3000-4186.pdf
- ITPs\Lining Installation ITP - CH3000-4186_REV2.pdf
- ITPs\Lining Installation ITP CH4186-6605.pdf
- ITPs\Lining Installation ITP CH4186-6605_REV2.pdf
- ITPs\Lining Installation ITP- CH 0 -1710.pdf
- ITPs\Lining Installation ITP- CH 0 -1710_REV2.pdf
- ITPs\LMW Mobilisation ITP.pdf
- ITPs\Meter Install ITP - CH1144.pdf
- ITPs\Meter Install ITP - CH1797.pdf
- ITPs\Meter Install ITP - CH2223.pdf
- ITPs\Meter Install ITP - CH319.pdf

- ITPs\Meter Install ITP - CH4215.pdf
- ITPs\Meter Install ITP - CH4320.pdf
- ITPs\Meter Install ITP - CH4507.pdf
- ITPs\Meter Install ITP - CH478.pdf
- ITPs\Meter Install ITP - CH5390.pdf
- ITPs\Meter Install ITP - CH6597.pdf
- ITPs\Meter Install ITP - CH956.pdf
- ITPs\Occupation Crossing ITP CH4198.pdf
- ITPs\Occupation Crossing ITP CH4503.pdf
- ITPs\Out of Channel ITP - Package 1A.pdf
- ITPs\Out of Channel ITP - Package 1B.pdf
- Photos\1. Wargan Pre Con\12597707-DRG-0_LMW SWEP - Merbein Wargan Channel Lining_IFC_0.pdf
- Photos\1. Wargan Pre Con\Wargan Pre CH0.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0100- CH0000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0200 - CH0100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0300 - CH0200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0350 - CH0300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0400 - CH0300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0500 - CH0400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0600 - CH0500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0700 - CH0600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0800 - CH0700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH0900 - CH0800.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1000 - CH0900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1100 - CH1000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1200 - CH1100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1300 - CH1200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1400 - CH1300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1500 - CH1400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1600 - CH1500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1700 - CH1600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1800 - CH1700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1900 - CH1800.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH1900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2000 - CH1900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2100 - CH2000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2200 - CH2100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2300 - CH2200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2300 - CH2250 DELETE.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2350 - CH2300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2400 - CH2300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2400 - CH2350.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2500 - CH2400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2600 - CH2500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2700 - CH2600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2800 - CH2700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH2900 - CH2800.jpg

- Photos\1. Wargan Pre Con\Wargan Pre CH3000 - CH2900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3100 - CH3000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3200 - CH3100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3300 - CH3200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3400 - CH3300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3450 - CH3400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3450 DELETE.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3500 - CH3400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3500 - CH3450 DELETE.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3550 - CH3500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3600 - CH3550.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3700 - CH3600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3800 - CH3700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH3900 - CH3800.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4000 - CH3900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4100 - CH4000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4200 - CH4100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4200 Crossing.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4300 - CH4200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4400 - CH4300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4500 - CH4400 (3).jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4500 - CH4400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4515 Crossing.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4600 - CH4500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4700 - CH4600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4800 - CH4700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH4900 - CH4800.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5000 - CH4900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5100 - CH5000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5200 - CH5100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5300 - CH5200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5400 - CH5300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5500 - CH5400.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5600 - CH5500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5700 - CH5600 (2).jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5700 - CH5600.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5800 - CH5700.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH5900 - CH5800.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6000 - CH5900.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6100 - CH6000.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6200 - CH6100.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6300 - CH6200 (2).jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6300 - CH6200 (3).jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6300 - CH6200.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6400 - CH6300.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6400 - CH6500.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6420 Wargan Road Crossing.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6500 - CH6420.jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6600 - CH6500 (2).jpg
- Photos\1. Wargan Pre Con\Wargan Pre CH6600 - CH6500.jpg

- Photos\1. Wargan Pre Con\Wargan Pre CH6600 - Outfall.jpg
- Photos\2. Wargan Post Con\Wargan Post CH0.heic
- Photos\2. Wargan Post Con\Wargan Post CH100 - CH0.heic
- Photos\2. Wargan Post Con\Wargan Post CH1000 - CH900.heic
- Photos\2. Wargan Post Con\Wargan Post CH1100 - CH1000.heic
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- Photos\2. Wargan Post Con\Wargan Post CH2600 - CH2500.heic
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- Photos\2. Wargan Post Con\Wargan Post CH4000 - CH3900.heic
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- Photos\2. Wargan Post Con\Wargan Post CH4200 - CH4100.heic
- Photos\2. Wargan Post Con\Wargan Post CH4200 Crossing.heic
- Photos\2. Wargan Post Con\Wargan Post CH4300 - CH4200.heic
- Photos\2. Wargan Post Con\Wargan Post CH4400 - CH4300.heic
- Photos\2. Wargan Post Con\Wargan Post CH4500 - CH4400 (act).heic
- Photos\2. Wargan Post Con\Wargan Post CH4515 Crossing.heic
- Photos\2. Wargan Post Con\Wargan Post CH4600 - CH4500.heic
- Photos\2. Wargan Post Con\Wargan Post CH4700 - CH4600.heic
- Photos\2. Wargan Post Con\Wargan Post CH4800 - CH4700.heic
- Photos\2. Wargan Post Con\Wargan Post CH4900 - CH4800.heic
- Photos\2. Wargan Post Con\Wargan Post CH500 - CH400.heic

- Photos\2. Wargan Post Con\Wargan Post CH5000 - CH4900 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5100 - CH5000 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5200 - CH5100 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5300 - CH5200 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5400 - CH5300 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5500 - CH5400 (2).heic
- Photos\2. Wargan Post Con\Wargan Post CH5600 - CH5500 (2).heic
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- Photos\2. Wargan Post Con\Wargan Post CH600 - CH500.heic
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- Photos\2. Wargan Post Con\Wargan Post CH6200 - CH6100.heic
- Photos\2. Wargan Post Con\Wargan Post CH6300 - CH6200.heic
- Photos\2. Wargan Post Con\Wargan Post CH6400 - CH6300.heic
- Photos\2. Wargan Post Con\Wargan Post CH6420 Wargan Road.heic
- Photos\2. Wargan Post Con\Wargan Post CH6500 - CH6420.heic
- Photos\2. Wargan Post Con\Wargan Post CH6600 - CH6500.heic
- Photos\2. Wargan Post Con\Wargan Post CH6600.heic
- Photos\2. Wargan Post Con\Wargan Post CH6601 - Outfall 1.heic
- Photos\2. Wargan Post Con\Wargan Post CH6601 Outfall.HEIC
- Photos\2. Wargan Post Con\Wargan Post CH700 - CH600.heic
- Photos\2. Wargan Post Con\Wargan Post CH800 - CH700.heic
- Photos\2. Wargan Post Con\Wargan Post CH900 - CH800.heic
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-10.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-11.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-12.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-13.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-14.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-15.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-16.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-17.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-18.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-19.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-2.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-20.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-21.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-22.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-23.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-24.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-25.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-26.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-27.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-28.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-29.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-3.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-30.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-31.jpg

- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-32.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-33.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-34.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-35.jpg
- Photos\3. During\LMW-SWEP-WarganRd-100424-DuringWorks-LR-36.jpg
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- Photos\7. Sandilong Pre Con\Sandilong Pre CH7850 - CH7950.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH7950 - CH8000.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8000 - CH8100.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8100 - CH8200.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8200 - CH8300.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8300 - CH8400.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8400 - CH8500.jpg
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- Photos\7. Sandilong Pre Con\Sandilong Pre CH8550 - CH8627.jpg
- Photos\7. Sandilong Pre Con\Sandilong Pre CH8627.jpg
- Photos\8. Sandilong Post Con\Sandilong Post CH6938 - CH7100.jpg
- Photos\8. Sandilong Post Con\Sandilong Post CH7100 - CH7200.jpg
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- Photos\9. K Extension Pre Con\K Extension Pre CH8627 - CH8650.jpg
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- As Con Drawings\12597707-DRG-1-LMW SWEP TANKARDS_ASCON.pdf
- As Con Drawings\12597707-DRG-2-LMW SWEP BAKERS_ASCON.pdf
- As Con Drawings\12597707-DRG-LMW SWEP 92 FOOT_ASCON.pdf
- As Con Drawings\12597707-DRG-LMW SWEP L EXT_ASCON.pdf
- IFC Drawings\12597707-DRG-LMW SWEP Mildura 92 Foot_IFC_0.pdf
- IFC Drawings\12597707-DRG-LMW SWEP Mildura Bakers_IFC_0.pdf
- IFC Drawings\12597707-DRG-LMW SWEP Mildura Fifth Street_IFC_0.pdf
- IFC Drawings\12597707-DRG-LMW SWEP Mildura L Extension_IFC_0.pdf
- IFC Drawings\12597707-DRG-LMW SWEP Mildura Tankards_IFC_0.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP001_92FootPool_Earthworks_Clearance_&_Veg_Removal.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP001_FifthStreetPool_Earthworks_Clearance_&_Veg_Removal.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP001_LExtensionPool_Earthworks_and_Veg_Removal.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP002_92FootPool_Concrete_Works_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP002_FifthStreetPool_Concrete_Works_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP002_LExtensionPool_Concrete_Works_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP003_92FootPool_Geomembrane_Lining_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP003_FifthStreetPool_Geomembrane_Lining_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP003_LExtensionPool_Geomembrane_Lining_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP004_92FootPool_Fencing_and_Cleanup_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP004_FifthStreetPool_Fencing_and_Cleanup_ITP.pdf
- ITPs\92 Ft, Fifth St, L Ext\ITP004_LExtensionPool_Fencing_and_Cleanup_ITP.pdf
- ITPs\Bakers & Tankards\CN0600 - MES - ITP - Package 5 - Bakers Pool Lot 1.pdf
- ITPs\Bakers & Tankards\CN0600 - MES - ITP - Package 5 - Bakers Pool Lot 2.pdf
- ITPs\Bakers & Tankards\CN0600 - MES - ITP - Package 5 - Tankards.pdf
- ITPs\Bakers & Tankards\QA - Liner Weld Sampling - Bakers.pdf
- ITPs\Bakers & Tankards\QA - Liner Weld Sampling - Tankards.pdf
- Photos\1. Bakers Pre Con\Bakers Pre CH2050 - CH2080.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH2140 - CH2240.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH2240 - CH2300.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH2300 - CH2400.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH2400 - CH2500.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH2500 - 2600.jpg
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- Photos\1. Bakers Pre Con\Bakers Pre CH2890 - CH2950.jpg
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- Photos\1. Bakers Pre Con\Bakers Pre CH3640 - CH3690.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH3690.jpg
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- Photos\1. Bakers Pre Con\Bakers Pre CH4000 - CH4050.jpg
- Photos\1. Bakers Pre Con\Bakers Pre CH4050 - CH4100.jpg
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- Photos\7. 5th St Pre Con\Fifth St CH8100 - CH8200.jpg
- Photos\7. 5th St Pre Con\Fifth St CH8200 - CH8250.jpg
- Photos\7. 5th St Pre Con\Fifth St CH8250 - CH8300.jpg
- Photos\7. 5th St Pre Con\Fifth St CH8300 - CH8400.jpg
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- Photos\7. 5th St Pre Con\Fifth St CH8500 - CH8570.jpg
- Photos\7. 5th St Pre Con\Fifth St CH8570 - CH8590.jpg
- Photos\8. 5th St Post Con\Fifth St Post CH7675 - CH7750.jpg
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- Photos\8. 5th St Post Con\Fifth St Post CH7780 - CH7900.jpg
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- Photos\8. 5th St Post Con\Fifth St Post CH8050 - CH8100.jpg
- Photos\8. 5th St Post Con\Fifth St Post CH8100 - CH8200.jpg
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- Photos\8. 5th St Post Con\Fifth St Post CH8500- CH8570.jpg
- Photos\8. 5th St Post Con\Fifth St Post CH8570 - CH8590.jpg
- Photos\9. L Ex Pre Con\L Extension CH8610 - CH8750.jpg
- Photos\9. L Ex Pre Con\L Extension CH8750 - CH8800 (2).jpg
- Photos\9. L Ex Pre Con\L Extension CH8800 - CH8850.jpg
- Photos\9. L Ex Pre Con\L Extension CH8850 - CH8950.jpg
- Photos\9. L Ex Pre Con\L Extension CH8950 - CH9050.jpg
- Photos\9. L Ex Pre Con\L Extension CH9050 - CH9100.jpg
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- Photos\9. L Ex Pre Con\L Extension CH9250 - CH9270.jpg
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- Photos\9. L Ex Pre Con\L Extension CH9325 (US).jpg
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04 L Pipeline

- As Con Drawings\24020-AC001-A.pdf
- IFC Drawings\12597707-LMW SWEP-Mildura L Pipeline Design_1_C.pdf
- ITPs\LMW SWEP ITP Final.pdf
- Photos\1. Pre Con\ArcGIS L Pipeline CH5670 (US).jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH5670 - CH5720.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH5720 - CH5800.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH5800 - CH5900.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH5900 - CH6000.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6000 - CH6100.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6100 - CH6150.jpg
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- Photos\1. Pre Con\ArcGIS L Pipeline CH6200 - CH6250.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6250.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6270 - CH6400.jpg
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- Photos\1. Pre Con\ArcGIS L Pipeline CH6550 - CH6600.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6600 - CH6700 - CH6730.jpg
- Photos\1. Pre Con\ArcGIS L Pipeline CH6600 - CH6700.jpg

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- Photos\2. Post Con\20250213_221343272_iOS.jpg
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- Photos\2. Post Con\20250213_221618814_iOS.jpg
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- Photos\2. Post Con\20250213_221910986_iOS.jpg
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- Photos\2. Post Con\20250213_222537296_iOS.jpg
- Photos\2. Post Con\LMW-SWEP-NicholsPoint-091024-AfterWorks-LR-10.jpg
- Photos\2. Post Con\LMW-SWEP-NicholsPoint-091024-AfterWorks-LR-21.jpg
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- Photos\2. Post Con\LMW-SWEP-NicholsPoint-091024-AfterWorks-LR-27.jpg
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- Photos\2. Post Con\LMW-SWEP-NicholsPoint-091024-AfterWorks-LR-31.jpg
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- Photos\2. Post Con\LMW-SWEP-NicholsPoint-091024-AfterWorks-LR-35.jpg
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- Photos\3. During\LMW-SWEP-NicholsPoint-220524-DuringWorks-LR-1.jpg
- Photos\3. During\LMW-SWEP-NicholsPoint-220524-DuringWorks-LR-12.jpg
- Photos\3. During\LMW-SWEP-NicholsPoint-220524-DuringWorks-LR-13.jpg
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- Photos\3. During\LMW-SWEP-NicholsPoint-220524-DuringWorks-LR-39.jpg
- Photos\3. During\LMW-SWEP-NicholsPoint-220524-DuringWorks-LR-4.jpg
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05 Knifes Edge Pipeline

- As Con Drawings\gardner2421-LMW-merbein-as constructed.csv
- As Con Drawings\Knifes Edge Pipeline As Constructed Drawing.pdf
- IFC Drawings\12597707-DRG-0_LMW SWEP - Merbein Knifes Edge Pipeline_IFC_0_C.pdf
- ITPs\Knifes Edge Pipeline_ITP_Signed.pdf
- Photos\Original_20240718_080655.jpg
- Photos\Original_20240718_080802.jpg
- Photos\Original_20240718_080836.jpg
- Photos\Original_20240718_080846.jpg
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- Photos\photos_of_works_on_the_day-20240626-021939.jpg
- Photos\photos_of_works_on_the_day-20240626-021949.jpg
- Photos\photos_of_works_on_the_day-20240626-224656.jpg
- Photos\photos_of_works_on_the_day-20240626-231931.jpg
- Photos\photos_of_works_on_the_day-20240717-222456.jpg
- Photos\photos_of_works_on_the_day-20240722-060540.jpg
- Photos\photos_of_works_on_the_day-20240801-034337.jpg
- Photos\photos_of_works_on_the_day-20240801-034357.jpg
- Photos\photos_of_works_on_the_day-20240821-023057.jpg
- Photos\photos_of_works_on_the_day-20240822-213229.jpg
- Photos\photos_of_works_on_the_day-20240822-213417.jpg
- Photos\quality_observation_photos-20240710-215814.jpg
- Photos\safety_observation_photos-20240715-053840.jpg

06 SMO Works

- SWEP - Removed SMO List - Water Savings Claim 2 (2025).xlsx
- 01 Merbein\SMO 283311\SMO 283311 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 283311\SMO 283311 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310207\SMO 310,207 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310207\SMO 310,207 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310207\SMO 310,207 - SWEP Removal SDS.pdf
- 01 Merbein\SMO 310211\SMO 310211 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310211\SMO 310211 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310223\SMO 310223 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310223\SMO 310223 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310224\SMO 310224 - SWEP Removal Ascons.pdf
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- 01 Merbein\SMO 310225\SMO 310225 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310225\SMO 310225 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310229\SMO 310229 AsCon.pdf
- 01 Merbein\SMO 310229\SMO 310229 ITP.pdf
- 01 Merbein\SMO 310232\SMO 310232 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310232\SMO 310232 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310233\SMO 310233 AsCon.pdf
- 01 Merbein\SMO 310233\SMO 310233 ITP.pdf
- 01 Merbein\SMO 310239\SMO 310,239 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310239\SMO 310,239 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310266\SMO 310266 - SWEP Removal Ascons 1.pdf
- 01 Merbein\SMO 310266\SMO 310266 - SWEP Removal Ascons 2.pdf
- 01 Merbein\SMO 310266\SMO 310266 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310268\SMO 310268 AsCon.pdf
- 01 Merbein\SMO 310268\SMO 310268 ITP.pdf
- 01 Merbein\SMO 310272\SMO 310,272 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310272\SMO 310,272 - SWEP Removal ITP.pdf
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- 01 Merbein\SMO 310274\SMO 310274 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310276\SMO 310276 & 289680 - SWEP Removal Ascon 1.pdf
- 01 Merbein\SMO 310276\SMO 310276 & 289680 - SWEP Removal Ascon 2.pdf
- 01 Merbein\SMO 310276\SMO 310276 & 289680 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310279\SMO 310,279 - SWEP Removal Ascons.pdf
- 01 Merbein\SMO 310279\SMO 310,279 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310279\SMO 310,279 - SWEP Removal SDS.pdf
- 01 Merbein\SMO 310280\SMO 310,280 - SWEP Ascons.pdf
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- 01 Merbein\SMO 310598\310598 As Con.pdf

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- 01 Merbein\SMO 310601\SMO 310601 - SWEP Removal ITP.pdf
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- 01 Merbein\SMO 310613\SMO 310613 - SWEP Removal ITP.pdf
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- 01 Merbein\SMO 310647\SMO 310,647 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310647\SMO 310,647 - SWEP Removal SDS.pdf
- 01 Merbein\SMO 310652\SMO 310,652 - SWEP Removal Ascons.pdf
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- 01 Merbein\SMO 310683\SMO 310585 & 310683 - SWEP Removal Acons 1.pdf
- 01 Merbein\SMO 310683\SMO 310585 & 310683 - SWEP Removal Acons 2.pdf
- 01 Merbein\SMO 310683\SMO 310585 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310683\SMO 310683 - SWEP Removal ITP.pdf
- 01 Merbein\SMO 310684\SMO 310490 & 310684 - SWEP Removal Ascons 1.pdf
- 01 Merbein\SMO 310684\SMO 310490 & 310684 - SWEP Removal Ascons 2.pdf
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- 01 Merbein\SMO 310706\SMO 310706 - SWEP Removal Ascons 1.pdf
- 01 Merbein\SMO 310706\SMO 310706 - SWEP Removal Ascons 2.pdf
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- 02 Red Cliffs\SMO 241794\SMO 241,794 - SWEP Removal Ascons.pdf
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- 02 Red Cliffs\SMO 241796\SMO 241796 - SMO Removal Ascons.pdf
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- 02 Red Cliffs\SMO 241806\SMO 241806 - SWEP Removal ITP.pdf
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- 02 Red Cliffs\SMO 241818\SMO 241,818 - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 241818\SMO 241,818 - SWEP Removal ITP__OID280.pdf
- 02 Red Cliffs\SMO 241827\SMO 241,827 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 241827\SMO 241827 - SMO Removal Ascons.pdf
- 02 Red Cliffs\SMO 241829\SMO 241,829 - SWEP Removal ITP.pdf
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- 02 Red Cliffs\SMO 241861\SMO 241861 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 241861\SMO 241861 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 241861\SMO 241861 Prop unknown - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 241862\SMO 241862 - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 241862\SMO 241862 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 241862\SMO 241862 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 241875\SMO 241875 - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 241875\SMO 241875 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 241875\SMO 241875 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 271674\SMO 271,674 - SWEP Removal Ascons.pdf
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- 02 Red Cliffs\SMO 287426\SMO 287426 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 287426\SMO 287426 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 287550\SMO 287550 - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 287550\SMO 287550 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 287550\SMO 287550 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 288566\SMO 316165 & 288566 - SWEP Removal Ascons.pdf
- 02 Red Cliffs\SMO 288566\SMO 316165 & 288566 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 288566\SMO 316165 & 288566 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 288590\SMO 316245 & 288590 - SWEP Removal Ascon.pdf
- 02 Red Cliffs\SMO 288590\SMO 316245 & 288590 - SWEP Removal ITP.pdf
- 02 Red Cliffs\SMO 288590\SMO 316245 & 288590 - SWEP Removal SDS.pdf
- 02 Red Cliffs\SMO 289575\SMO 289575 & 289576 - SWEP Removal Ascon.pdf
- 02 Red Cliffs\SMO 289575\SMO 289575 & 289576 - SWEP Removal Doc.pdf
- 02 Red Cliffs\SMO 289575\SMO 289575 & 289576 - SWEP Removal ITP.pdf
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- 02 Red Cliffs\SMO 315473\SMO 315745 & 315743 - SWEP Removal Ascons.pdf
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- 02 Red Cliffs\SMO 315795\SMO 316319 & 315795 - SWEP Removal Ascons.pdf
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- 03 Wargan\LMO 226618\00-2641-067-S-012 - SMO Replacement Detail.pdf
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