

Revenue Reconciliation Diagnostic

Demo Water Service · period 2026-05 · 2026-06-27 01:16 UTC
2009 transactions · 96% auto-matched

Estimated leakage: 837 EUR

- Unmatched: 513 EUR (30 payments)
- Duplicates: 184 EUR (12 payments)
- Wrong-site: 140 EUR (8 payments)
- Expected vs collected gap: 364 EUR
- Recoverable (at 60% recovery): 502 EUR
- Estimated hours saved vs manual reconciliation: 64.3 h

Trust Score: 97/100

Match rate (30%)		92/100
Completeness (20%)		99/100
Agent reliability (20%)		99/100
Geo-integrity (10%)		97/100
Temporal integrity (10%)		100/100
Outlier risk (10%)		99/100

Decision Readiness: C - Notable anomalies limit use: the data should be verified or corrected

Recommendation: Fix the flagged anomalies, then recompute the score before using the data.

Reconciliation by site

- (unresolved): collected 242 EUR, unmatched 242 EUR, expected 0 EUR (0/15 matched)
- WP003: collected 962 EUR, unmatched 57 EUR, expected 939 EUR (48/51 matched)
- WP033: collected 1,032 EUR, unmatched 53 EUR, expected 1,007 EUR (49/51 matched)
- WP002: collected 870 EUR, unmatched 50 EUR, expected 865 EUR (48/51 matched)
- WP036: collected 904 EUR, unmatched 49 EUR, expected 867 EUR (49/53 matched)
- WP001: collected 915 EUR, unmatched 46 EUR, expected 915 EUR (48/50 matched)
- WP004: collected 937 EUR, unmatched 43 EUR, expected 926 EUR (48/51 matched)
- WP008: collected 883 EUR, unmatched 40 EUR, expected 883 EUR (48/50 matched)

Reconciliation by agent

- AG05: collected 14,521 EUR, 245/254 matched, 0 off-roster
- AG03: collected 9,527 EUR, 245/253 matched, 0 off-roster
- AG07: collected 9,467 EUR, 252/265 matched, 0 off-roster
- AG01: collected 9,464 EUR, 251/261 matched, 0 off-roster
- AG04: collected 8,986 EUR, 216/225 matched, 0 off-roster
- AG02: collected 4,686 EUR, 247/257 matched, 0 off-roster
- AG06: collected 4,626 EUR, 247/249 matched, 0 off-roster
- AG00: collected 4,187 EUR, 226/235 matched, 0 off-roster

Top anomalies (96)



- unmatched_payment (30): Payment of 12 has no reading or invoice for period 2026-05.
- missing_meter_reading (20): Subscriber SUB00000 paid for 2026-05 but has no meter reading on record.
- duplicate_transaction (12): Duplicate payment of 25 (repeated id or amount+payer+timestamp).
- agent_collection_discrepancy (10): Collecting agent 'GHOST038' is not in the agent roster.
- wrong_site_payment (8): Payment recorded at water point WP037 but the subscriber belongs to WP030.
- outlier_numeric_value (6): Outlier in 'amount': 5000 outside the expected range [-8.5, 43.5].
- temporal_inconsistency (5): Collection date outside the expected window 2026-05-01T00:00:00Z..2026-05-31T23:59:59Z.
- impossible_gps (4): GPS point (0.00000, 0.00000) falls outside the expected zone.
- revenue_gap (1): Site WP000: collected 622 vs expected 986 (63% of invoiced revenue).

Usage limits

This is a reconciliation diagnostic on the files provided, not an audited financial statement. The recoverable figure applies a stated recovery-rate assumption and is not guaranteed revenue. Unresolved records may reflect missing source files rather than true leakage; confirm with the operator before acting.

Methodology: deterministic, versioned reconciliation (v0.2). Every payment is classified by a fixed precedence; each sub-score starts at 100 and is reduced by the severity-weighted density of its anomalies. Reproducible and explainable ? decision support, not a certification.