AVC Accuracy Reconciliation Report

Operating Period (2026/04/01 - 2026/04/30)Plaza(s) (Trichardt),Lifted Axles

All operating day(s) in selected period are closed

Control Centre : Trichardt Control

Plaza Name : Trichardt

Lane Direction : East

Lane Type : Mixed

Lane 01ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	418999	458156	39158	8	8	1	29	10	1096840	1135968	39129	10

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	39166	39119	46	398	7	99.88	0.041	99.92	99.90	Pass
Class 1	27663	27624	39	75		99.73	0.019	99.75	99.60	Pass
Class 2	2294	2294	0	185		91.94	0.285	92.22	95.00	Failed
Class 3	1610	1608	2	113	5	92.66	0.332	92.99	96.00	Failed
Class 4	7598	7593	5	25	2	99.64	0.086	99.73	99.00	Pass

Lane 02ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	1202079	1231686	29608	0	0	0	217	0	2174601	2203991	29391	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	29608	29391	217	285	1	99.27	0.047	99.32	99.90	Failed
Class 1	24887	24671	216	97		99.61	0.019	99.63	99.60	Pass
Class 2	1443	1442	1	92		93.62	0.285	93.90	95.00	Failed

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Class 3	570	570	0	48	1	91.40	0.332	91.73	96.00	Failed
Class 4	2708	2708	0	48		98.23	0.086	98.32	99.00	Failed

Lane 03ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	2095684	2121689	26006	0	0	0	10	0	2094322	2120317	25996	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	26006	25996	10	121	1	99.96	0.051	100.00	99.90	Pass
Class 1	24605	24595	10	20		99.92	0.019	99.94	99.60	Pass
Class 2	631	631	0	76		87.96	0.285	88.24	95.00	Failed
Class 3	197	197	0	25	1	86.80	0.332	87.13	96.00	Failed
Class 4	573	573	0	0		100.00	0.086	100.00	99.00	Pass

Lane 04ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	4787	4794	8	0	0	0	0	0	4802	4809	8	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	8	8	0	0		100.00	0.078	100.00	99.90	Pass
Class 1	7	7	0	0		100.00	0.019	100.00	99.60	Pass
Class 2	1	1	0	0		100.00	0.285	100.00	95.00	Pass

Lane 05ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	2503249	2541274	38026	0	0	0	7	0	2596139	2634157	38019	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	38026	38019	7	171	1	99.98	0.042	100.00	99.90	Pass
Class 1	36655	36648	7	73		99.80	0.019	99.82	99.60	Pass
Class 2	609	609	0	65		89.33	0.285	89.61	95.00	Failed
Class 3	190	190	0	32	1	82.63	0.332	82.96	96.00	Failed

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Class 4	572	572	0	1		99.83	0.086	99.92	99.00	Pass

Totals for Lane Type : Mixed	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count	Count Missing AVC Seq#
	132806	8	8	1	263	10	132543	10

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	132814	132533	280	975	10	99.79	0.022	99.81	99.90	Failed
Class 1	113817	113545	272	265		99.77	0.037	99.81	99.60	Pass
Class 2	4978	4977	1	418		91.60	0.605	92.21	95.00	Failed
Class 3	2567	2565	2	218	8	91.51	0.758	92.27	96.00	Failed
Class 4	11451	11446	5	74	2	99.35	0.182	99.53	99.00	Pass

Totals for Lane Direction : East	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count	Count Missing AVC Seq#
	132806	8	8	1	263	10	132543	10

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	132814	132533	280	975	10	99.78	0.022	99.8	99.90	Failed
Class 1	113817	113545	272	265		99.77	0.037	99.81	99.60	Pass
Class 2	4978	4977	1	418		91.60	0.605	92.21	95.00	Failed
Class 3	2567	2565	2	218	8	91.51	0.758	92.27	96.00	Failed
Class 4	11451	11446	5	74	2	99.35	0.182	99.53	99.00	Pass

Lane Direction : West

Lane Type : Mixed

Lane 06MW	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	1895685	1944826	49142	0	0	0	15	0	1900818	1949944	49127	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	49142	49127	15	255	1	99.97	0.037	100.00	99.90	Pass

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Class 1	47153	47139	14	137		99.71	0.019	99.73	99.60	Pass
Class 2	978	977	1	82		91.61	0.285	91.89	95.00	Failed
Class 3	263	263	0	27		89.73	0.332	90.06	96.00	Failed
Class 4	748	748	0	9	1	98.66	0.086	98.75	99.00	Failed

Lane 07MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	673823	*680369*	*6547*	*0*	*0*	*0*	*1*	*5*	*1746892*	*1753435*	*6544*	*3*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	6547	6541	6	47		99.91	0.078	99.99	99.90	Pass
Class 1	6236	6230	6	13		99.79	0.019	99.81	99.60	Pass
Class 2	113	113	0	24		78.76	0.285	79.05	95.00	Failed
Class 3	33	33	0	10		69.70	0.332	70.03	96.00	Failed
Class 4	165	165	0	0		100.00	0.086	100.00	99.00	Pass

Lane 08MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	384529	*416494*	*31966*	*0*	*0*	*0*	*53*	*0*	*2369417*	*2401329*	*31913*	*0*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	31966	31913	53	190	1	99.83	0.046	99.88	99.90	Failed
Class 1	27646	27594	52	27		99.90	0.019	99.92	99.60	Pass
Class 2	1449	1449	0	83		94.27	0.285	94.55	95.00	Failed
Class 3	535	534	1	68		87.27	0.332	87.60	96.00	Failed
Class 4	2336	2336	0	12	1	99.44	0.086	99.53	99.00	Pass

Lane 09MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	1842108	*1885000*	*42893*	*2*	*2*	*1*	*37*	*8*	*1914298*	*1957153*	*42856*	*8*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*

The AVC Accuracy Reconciliation Report cannot agree to the Accuracy Summary and Detail reports due to different logic that are applied.

Overall Count	42895	42848	46	590	41	99.89	0.039	99.93	99.90	Pass
Class 1	31119	31075	44	61		99.80	0.019	99.82	99.60	Pass
Class 2	2492	2492	0	220		91.17	0.285	91.45	95.00	Failed
Class 3	1625	1625	0	177	16	88.12	0.332	88.45	96.00	Failed
Class 4	7658	7656	2	132	25	97.95	0.086	98.04	99.00	Failed

Totals for Lane Type : Mixed	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count	Count Missing AVC Seq#
	130548	2	2	1	106	13	130440	11

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	130550	130429	120	1082	43	99.91	0.023	99.93	99.90	Pass
Class 1	112154	112038	116	238		99.79	0.037	99.83	99.60	Pass
Class 2	5032	5031	1	409		91.87	0.602	92.47	95.00	Failed
Class 3	2456	2455	1	282	16	88.52	0.775	89.29	96.00	Failed
Class 4	10907	10905	2	153	27	98.60	0.187	98.79	99.00	Failed

Totals for Lane Direction : West	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count	Count Missing AVC Seq#
	130548	2	2	1	106	13	130440	11

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	130550	130429	120	1082	43	99.88	0.023	99.9	99.90	Pass
Class 1	112154	112038	116	238		99.79	0.037	99.83	99.60	Pass
Class 2	5032	5031	1	409		91.87	0.602	92.47	95.00	Failed
Class 3	2456	2455	1	282	16	88.52	0.775	89.29	96.00	Failed
Class 4	10907	10905	2	153	27	98.60	0.187	98.79	99.00	Failed

Totals for Plaza : Trichardt	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	Count No Class	AVC Trx Count	Count Missing AVC Seq#
	263354	10	10	2	369	23	262983	21

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome

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Overall Count	263364	262962	400	2057	53	99.83	0.016	99.85	99.90	Failed
Class 1	225971	225583	388	503		99.78	0.026	99.81	99.60	Pass
Class 2	10010	10008	2	827		91.74	0.427	92.17	95.00	Failed
Class 3	5023	5020	3	500	24	89.99	0.542	90.53	96.00	Failed
Class 4	22358	22351	7	227	29	97.75	0.130	97.88	99.00	Failed

Totals for Control Centre : Trichardt Control	*Trx Count*	*Missing Trx Count*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*Count No Class*	*AVC Trx Count*	*Count Missing AVC Seq#*
	263354	*10*	*10*	*2*	*369*	*23*	*262983*	*21*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Missed Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	263364	262962	400	2057	53	99.83	0.016	99.85	99.90	Failed
Class 1	225971	225583	388	503		99.78	0.026	99.81	99.60	Pass
Class 2	10010	10008	2	827		91.74	0.427	92.17	95.00	Failed
Class 3	5023	5020	3	500	24	90.05	0.542	90.59	96.00	Failed
Class 4	22358	22351	7	227	29	98.98	0.130	99.11	99.00	Pass

COLUMN DEFINITIONS:

- **General Comment:** Overall Count Accuracy values show whether the AVC correctly detected each vehicle and only true vehicles as per the definition of the Government Gazette. The Classification Accuracy values therefore exclude all missed or over counted vehicle passages.

- **Actual Traffic**

  Overall Count
  This is the actual number of vehicles that passed through the lane/Virtual Plaza or control centre. Based on MIS Data
  Classification Count per class:
  This is the actual number of vehicles (MIS transactions) of a certain class that passed through the lane/Virtual Plaza or control centre based on the corrected/verified vehicle classification. The actual number of vehicles will exclude all vehicles that the AVC failed to detect, as per Kersen Naidoo comments on the 29th July 2010.
  NB. The Actual traffic does not include any of the Class 0 transactions (Class 0 Timeouts and Ghost Violations) Assuming that these are correctly validated by the Operator by means of the VGS.
  This “Actual Traffic” shall also be equal to the total number of physical true vehicle passages through the lane/Virtual Plaza or Control Centre as when verified by means of a manual Video Vehicle count and class verification.
- **AVC Correct Traffic**

  Overall Count

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The number of ACTUAL passages that were detected by the AVC. This count will use the Actual Dataset .

Classification Count

Using the Actual Dataset, this is the number of vehicles that AVC classified correctly.

- **No AVC Present**

  Overall Count

  The number of ACTUAL passages not detected by the AVC or the data was not communicated to the TCC by the AVC thus resulting in no record being sent to the MIS.

  Classification Count

  The number of ACTUAL passages for a specific classification not detected by the AVC or the data was not communicated to the TCC by the AVC thus resulting in no record being sent to the MIS.

- **Misclassified**

  Overall Count

  The number of ACTUAL passages that were classified incorrectly by the AVC. This excludes any passages that were not classified or detected by the AVC.

  Classification Count

  The number of ACTUAL passages for a specific classification that were incorrectly classified by the AVC. This excludes any passages that were not classified or detected by the AVC.

- **NC (No Class)**

  Overall Count

  The number of ACTUAL vehicles that were detected by the AVC but the AVC failed to classify the vehicle.

  Classification Count

  The number of ACTUAL vehicles for a specific classification that were detected by the AVC but the AVC failed to classify the vehicle.

- **Lifted Axles**

  The Number of Vehicles that have axles that are present on a vehicle but are raised off the ground, meaning they are not in contact with the road surface.

- **Simulated Transactions**

  The Number of artificially generated vehicle passages used to test, validate, or monitor AVC systems without real vehicles passing through a tolling or classification point.

- **Measured Accuracy (%)**

  Overall count

  The Actual Traffic less the error count (Vehicles not detected by the AVC plus all ghost violations) as a percentage of the Actual Traffic. Note, the value will never be more than 100%, if it is more than 100% than there is a problem with the counts.

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Classification count

The total number of vehicles classified correctly by the AVC for a specific class as a percentage of the actual number of vehicles for a specific classification. Note, the actual number excludes all passages which the AVC did not detect. This value will never be more than 100%, if it is more than 100% than there is a problem with the counts.

- **Error Margin (%)**

Overall count

n is the actual number of vehicles used in the sample. p and z are given in book 2 volume 4.

Classification count

n is the actual number of vehicles used in the sample for the specific classification, this will exclude any vehicles that the AVC did not detect. p and z are given in book 2 volume 4.

- **AVC Accuracy (%)**

Overall count

The measured accuracy plus d(error margin). This value can exceed 100% and should be displayed as 100% when it exceeds 100%.

Classification count

The measured accuracy for the specific class plus the calculated d(error margin) for the specific class. This value can exceed 100% and should be displayed as 100% when it exceeds 100%.

- **Required Accuracy (%)**

Overall count

This is the expected AVC accuracy which is specified in Book 2 Volume 4.

Classification count

This is the expected AVC accuracy for a specific class which is specified in Book 2 Volume 4.

- **Outcome**

Overall count

If the AVC Accuracy is equal to or exceeds the required AVC accuracy the outcome will be PASSED, if the AVC accuracy is less than the required AVC accuracy the outcome will FAILED.

Classification

If the AVC Accuracy for a specific class is equal to or exceeds the required AVC accuracy for the specific class the outcome will be PASSED, if the AVC accuracy for the specific class is less than the required AVC accuracy for the specific class the outcome will FAILED.

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