AVC Accuracy Reconciliation Report

Operating Period (2026/05/01 - 2026/05/31)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#
	458157	493895	35739	3	3	1	35	18	1135969	1171661	35693	7

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	35742	35686	55	535	8	99.84	0.043	99.88	99.90	Failed
Class 1	24591	24542	49	148		99.40	0.019	99.42	99.60	Failed
Class 2	2158	2158	0	216		89.99	0.285	90.27	95.00	Failed
Class 3	1492	1490	2	131	1	91.14	0.332	91.47	96.00	Failed
Class 4	7500	7496	4	40	7	99.37	0.086	99.46	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#
	1231687	1262808	31122	0	0	0	76	0	2203992	2235037	31046	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	31122	31046	76	624		99.76	0.046	99.81	99.90	Failed
Class 1	26106	26030	76	193		99.26	0.019	99.28	99.60	Failed
Class 2	1504	1504	0	104		93.09	0.285	93.37	95.00	Failed

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Class 3	843	843	0	304	63.94	0.332	64.27	96.00	Failed
Class 4	2669	2669	0	23	99.14	0.086	99.23	99.00	Pass

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#
	2121690	2144018	22329	0	0	0	14	2	2120318	2142632	22315	2

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	22329	22313	16	150		99.93	0.055	99.99	99.90	Pass
Class 1	20594	20578	16	36		99.83	0.019	99.85	99.60	Pass
Class 2	579	579	0	84		85.49	0.285	85.77	95.00	Failed
Class 3	236	236	0	25		89.41	0.332	89.74	96.00	Failed
Class 4	920	920	0	5		99.46	0.086	99.55	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#
	4795	4811	17	0	0	0	0	0	4810	4826	17	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	17	17	0	0		100.00	0.078	100.00	99.90	Pass
Class 1	17	17	0	0		100.00	0.019	100.00	99.60	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#
	2541275	2580675	39401	0	0	0	11	0	2634158	2673547	39390	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	39401	39390	11	236		99.97	0.041	100.00	99.90	Pass
Class 1	37692	37681	11	84		99.78	0.019	99.80	99.60	Pass
Class 2	767	767	0	122		84.09	0.285	84.37	95.00	Failed
Class 3	227	227	0	24		89.43	0.332	89.76	96.00	Failed
Class 4	715	715	0	6		99.16	0.086	99.25	99.00	Pass

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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#
	128608	3	3	1	136	20	128461	9

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	128611	128452	158	1545	8	99.88	0.023	99.9	99.90	Pass
Class 1	109000	108848	152	461		99.58	0.037	99.62	99.60	Pass
Class 2	5008	5008		526		89.50	0.604	90.1	95.00	Failed
Class 3	2798	2796	2	484	1	82.70	0.726	83.43	96.00	Failed
Class 4	11804	11800	4	74	7	99.37	0.179	99.55	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#
	128608	3	3	1	136	20	128461	9

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	128611	128452	158	1545	8	99.87	0.023	99.89	99.90	Pass
Class 1	109000	108848	152	461		99.58	0.037	99.62	99.60	Pass
Class 2	5008	5008		526		89.50	0.604	90.1	95.00	Failed
Class 3	2798	2796	2	484	1	82.70	0.726	83.43	96.00	Failed
Class 4	11804	11800	4	74	7	99.37	0.179	99.55	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#
	1944827	1987010	42184	0	0	0	9	0	1949945	1992119	42175	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	42184	42175	9	248	2	99.98	0.04	100.00	99.90	Pass
Class 1	40293	40284	9	112		99.72	0.019	99.74	99.60	Pass

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Class 2	853	853	0	104		87.81	0.285	88.09	95.00	Failed
Class 3	199	199	0	24	2	86.93	0.332	87.26	96.00	Failed
Class 4	839	839	0	8		99.05	0.086	99.14	99.00	Pass

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#
	680370	697282	16913	0	0	0	8	32	1753436	1770339	16904	31

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	16913	16873	40	119	1	99.76	0.063	99.82	99.90	Failed
Class 1	15749	15709	40	23		99.85	0.019	99.87	99.60	Pass
Class 2	417	417	0	73		82.49	0.285	82.77	95.00	Failed
Class 3	147	147	0	20	1	85.71	0.332	86.04	96.00	Failed
Class 4	600	600	0	3		99.50	0.086	99.59	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#
	416495	446130	29636	0	0	0	26	2	2401330	2430939	29610	2

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	29636	29608	28	483	1	99.91	0.047	99.96	99.90	Pass
Class 1	25268	25240	28	90		99.64	0.019	99.66	99.60	Pass
Class 2	1409	1409	0	88		93.75	0.285	94.03	95.00	Failed
Class 3	787	787	0	287		63.53	0.332	63.86	96.00	Failed
Class 4	2172	2172	0	18	1	99.13	0.086	99.22	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#
	1885001	1924193	39193	4	4	0	47	3	1957154	1996299	39146	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	39197	39143	54	668	9	99.86	0.041	99.90	99.90	Pass

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Class 1	27693	27643	50	138		99.50	0.019	99.52	99.60	Failed
Class 2	2412	2412	0	290		87.98	0.285	88.26	95.00	Failed
Class 3	1593	1593	0	205	3	86.94	0.332	87.27	96.00	Failed
Class 4	7499	7495	4	35	6	99.45	0.086	99.54	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#
	127926	4	4	0	90	37	127835	36

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	127930	127799	131	1518	13	99.90	0.023	99.92	99.90	Pass
Class 1	109003	108876	127	363		99.67	0.037	99.71	99.60	Pass
Class 2	5091	5091		555		89.10	0.599	89.7	95.00	Failed
Class 3	2726	2726		536	6	80.34	0.736	81.08	96.00	Failed
Class 4	11110	11106	4	64	7	99.42	0.185	99.61	99.00	Pass

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#
	127926	4	4	0	90	37	127835	36

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	127930	127799	131	1518	13	99.89	0.023	99.91	99.90	Pass
Class 1	109003	108876	127	363		99.67	0.037	99.71	99.60	Pass
Class 2	5091	5091		555		89.10	0.599	89.7	95.00	Failed
Class 3	2726	2726		536	6	80.34	0.736	81.08	96.00	Failed
Class 4	11110	11106	4	64	7	99.42	0.185	99.61	99.00	Pass

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#
	256534	7	7	1	226	57	256296	45

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	256541	256251	289	3063	21	99.88	0.016	99.9	99.90	Pass

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Class 1	218003	217724	279	824		99.62	0.026	99.65	99.60	Pass
Class 2	10099	10099		1081		89.30	0.425	89.72	95.00	Failed
Class 3	5524	5522	2	1020	7	85.08	0.517	85.6	96.00	Failed
Class 4	22914	22906	8	138	14	96.40	0.129	96.53	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#*
	256534	*7*	*7*	*1*	*226*	*57*	*256296*	*45*

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	256541	256251	289	3063	21	99.88	0.016	99.9	99.90	Pass
Class 1	218003	217724	279	824		99.62	0.026	99.65	99.60	Pass
Class 2	10099	10099		1081		89.30	0.425	89.72	95.00	Failed
Class 3	5524	5522	2	1020	7	81.54	0.517	82.06	96.00	Failed
Class 4	22914	22906	8	138	14	99.40	0.129	99.53	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
  The number of ACTUAL passages that were detected by the AVC. This count will use the Actual Dataset .

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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.

  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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