

Tomingley Gold Operations

Traffic Management Plan



Tomingley Gold Operations

Traffic Management Plan

TABLE OF REVISIONS

| Revision Number | Revision Date | Prepared By | Approved by | Comments |
|-----------------|----------------|-----------------|-----------------------|---|
| Revision 1 | August 2012 | Geolyse | Colleen Measday | Submitted for Approval |
| Revision 2 | October 2012 | Colleen Measday | Michael Sutherland | Updated following consultation with RMS and NSC |
| Revision 3 | February 2015 | Mark Williams | Sean Buxton | Annual Review |
| Revision 3 | February 2015 | Mark Williams | Sean Buxton | Annual Review |
| Revision 4 | September 2016 | Mark Williams | Sean Buxton | Review following Mod 3 |

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Report No. 616/06

Part 7: Traffic Impact Assessment

1. INTRODUCTION AND SCOPE

1.1 BACKGROUND

The Traffic Management Plan has been prepared as a tool to manage traffic related issues during the construction and operation of the Tomingley Gold Operations (TGO). It will be used by TGO personnel as the first point of reference for traffic management related issues.

The Traffic Management Plan sits under the overarching Environmental Management Strategy for the project. The other Environmental Management Plans include:

- Air Quality and Greenhouse Gas Management Plan;
- Blast Management Plan;
- Biodiversity Management Plan;
- Cultural Heritage Management Plan;
- Rehabilitation Management Plan;
- Hazardous Materials Management Plan; and
- Water Management Plan.

1.2 PROJECT APPROVAL

The Tomingley Gold Project was granted Project Approval by the NSW Department of Planning and Infrastructure on 24th July 2012 (Approval Reference 09_0155). Tomingley Gold Operations Pty Ltd has developed the Tomingley Gold Mine at Tomingley in Central West NSW.

Schedule 3, Condition No. 44 of the Project Approval states:

"Traffic Management Plan

The Proponent shall prepare and implement a Traffic Management Plan to the satisfaction of the Secretary. The plan shall:

- (a) focus on traffic management along Tomingley West Road and through the village of Tomingley to minimise the potential for conflicts between project-related traffic and other road users;
- (b) describe the measures to be implemented to ensure the effective operation of the intersections between the project site and the Newell Highway, including the site access road and Tomingley West Road intersection and the Tomingley-Narromine Road and Newell Highway intersection; and
- (c) be developed in consultation with Council and RMS, and must be submitted for the approval of the Secretary prior to the commencement of construction."

It should be noted that whilst Condition No. 44 (b) requires traffic measures to be implemented at specific intersections, Tomingley West Road does not intersect the Newell Highway directly. The Tomingley West Road intersects the Tomingley-Narromine Road which then intersects with the Newell Highway.

1.3 PURPOSE OF REPORT

This Traffic Management Plan has been prepared to document the off-site traffic management measures that are to be implemented during the operational of the TGO in order to minimise traffic associated risks for traffic accessing the mine facility and general traffic interacting with mine generated traffic.

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It will also ensure that traffic generated as a result of the TGO will move in a safe manner with least impact to Tomingley Village.

The implementation of the Traffic Management Plan will minimise the traffic related risks for the TGO employees, contractors, the general public and other vehicle operators on the wider road network surrounding the TGO.

1.4 LEGISLATION

In NSW the *Road Transport (Safety and Traffic Management) Act 1999*, governs the safe management of road transport and will be complied with and referred to during the operation of TGO.

In addition to this act, the following Standards and Guidelines will also guide traffic management for the project.

- Austroads Guide to Road Design
- RMS Supplements to Austroads Guide to Road Design
- Australian Standard AS1742- Manual of Uniform Traffic Control Devices

1.5 CONSULTATION

1.5.1 Roads and Maritime Safety and Narromine Shire Council

This plan has been developed in consultation with NSW Transport, Roads and Maritime Services (RMS) and Narromine Shire Council (NSC).

Revision 1 of the TMP was presented to both parties and Revision 2 was prepared following feedback from both agencies.

Revision 1 was presented to NSC on 15/08/2012 at a meeting held in their offices. They had very few comments and deemed the plan to be adequate. A copy of the minutes from this meeting is included in Appendix A

Revision 1 of the TMP was presented to RMS on 17/08/2012 at a meeting held in their office. RMS distributed the plan to parties within the agency and formal comments were issued to TGO via email on 18/09/2012. These minutes and comments are included in Appendix A of this plan.

1.5.2 NSC Traffic Committee

Proposed details of the Traffic Management signage to be installed as part of this plan will be forwarded to the NSC Traffic Committee for discussion.

2. EXTERNAL ROAD NETWORK

The Main Site Access Road to the TGO has been constructed off Tomingley West Road. Vehicle traffic access TGO via three (3) main routes:

- i) To/from Dubbo via the Newell Highway, Tomingley-Narromine Road and Tomingley West Road:
- ii) To/from Peak Hill and Parkes via the Newell Highway, Tomingley-Narromine Road and Tomingley West Road; and

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iii) To/from Narromine via Tomingley-Narromine Road and Tomingley West Road.

A fourth route that may be used at some time is access from the Newell Highway via Bulgandramine Road, however very few vehicles will use this route. This route would only be used is in the event of a traffic accident on the Newell Highway blocking traffic attempting to access the site from the south. This scenario would be very rare and in the event of its occurrence the existing route can adequately accommodate existing traffic and any mine generated traffic.

The Newell Highway (State Highway No. 17) under the control of RMS, the Tomingley-Narromine Road (Main Road No. 89) is a state road under the control of the NSC and the Tomingley West Road is a local road under the control of NSC.

Tomingley West Road is a two lane, two way undivided corridor. The current sealed pavement along the carriageway is approximately 3.5m to 4m wide. The road is not centreline or edge line marked and there are minimal guideposts along the road.

The initial section of Tomingley West Road, for approximately 260m west from its intersection with the Tomingley-Narromine Road is speed limited to 60km/h, whilst the remainder of Tomingley West Road is speed limited to 100km/h.

As part of the development of the TGO, the Tomingley West Road has been upgraded by widening and strengthening the road pavement to cater for the traffic loads generated by the proposed mine.

The Tomingley West Road and the Narromine-Tomingley Road intersection currently complies with an Auxiliary Right Turn (AUR) intersection in accordance with the RTA Road Design Guide.

The Narromine-Tomingley Road is a two lane two way bitumen sealed rural road with a sealed width of 6.5m with gravel shoulders varying from 1.0m to 2.0m wide. The Narromine-Tomingley Road is speed limited to 80km/h for approximately 460m from its intersection with the Newell Highway whilst the remainder of the Narromine-Tomingley Road is speed limited to 100km/h.

The Newell Highway and the Narromine-Tomingley Road intersection currently complies with an Auxiliary Right Turn (AUR) intersection combined with an Auxiliary Left Turn (AUL) lane in accordance with the RTA Road Design Guide.

The Newell Highway is a two lane two way State Highway with a sealed width of 11m comprising 2 x 3.5m wide travel lanes and 2 x 2m wide sealed shoulders. The Newell Highway is speed limited to 110km/h outside the village of Tomingley and 50km/h within Tomingley whilst at the intersection with the Narromine-Tomingley Road the Newell Highway is speed limited to 80km/h.

2.1 NEWELL HIGHWAY UNDERPASS

A heavy mine vehicle underpass has been excavated and constructed under the Newell Highway south of Tomingley Village. The Newell Highway underpass has been designed and constructed in accordance with the RMS design criteria and standards. Screens have been installed adjacent to, and either side of, the underpass to prevent driver distraction.

Design drawings of the underpass and Newell Highway diversion are attached in Appendix B

3. TRAFFIC DETAILS

3.1 VEHICLE TRAFFIC TYPES

The vehicle types accessing the TGO would include:

- Light vehicles such as passenger vehicles and light delivery trucks;
- Heavy vehicles such as large rigid trucks and semi-trailers;
- Oversize and overweight vehicles used for the infrequent delivery of plant components and mine operation vehicles throughout the life of the mine.

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3.2 TRAFFIC VOLUMES

The generation of traffic from the development of the TGO was assessed for the preparation of the Traffic Impact Assessment included in the Environmental Assessment for the project and was prepared by FJF Group Pty Ltd.

The anticipated traffic generated by the TGO for the operational phases determined in the FJF Group Report is summarised in Table 3.1.

Table 3.1 – Anticipated Traffic Generation for the Tomingley Gold Operations

| Route | Daily Traffic Light Vehicle Volume | Daily Traffic Heavy Vehicle Volume | |
|--------------------------|---------------------------------------|---------------------------------------|--|
| Operations | | | |
| Newell Highway | 102 veh/day | 6 veh/day | |
| Narromine-Tomingley Road | 34 veh/day | 2 veh/day | |
| Tomingley West Road | 136 veh/day | 8 veh/day | |

Traffic counts were also conducted on behalf of the FJF Group to determine the existing traffic volumes on the road network surrounding the TGO site. The existing traffic volumes and the traffic generated by the TGO were assessed to determine the increase in traffic volumes due to the construction and operation of the mine.

The assessment of the increase in traffic volume on the surrounding road network as determined in the FJF Group Report is summarised in Table 3.2.

Table 3.2 – Increase in Traffic Volumes due to the Development of the Tomingley Gold Operations

| Road | Current Traffic | | Project Generated Traffic | | % Increase | | |
|---|------------------|------------------|------------------------------|------------------|------------------|------------------|----------------|
| | Light Vehicle | Heavy Vehicle | Light Vehicle | Heavy Vehicle | Light Vehicle | Heavy Vehicle | All Traffic |
| Operations | | | | | | | |
| Newell Highway | 2250 v/d | 1125 v/d | 102 v/d | 6 v/d | 4.5% | 0.5% | 3.2% |
| Narromine-Tomingley Road | 349 v/d | 149 v/d | 34 v/d | 2 v/d | 9.7% | 1.3% | 7.2% |
| Tomingley West Road | 49 v/d | 25 v/d | 136 v/d | 8 v/d | 377.6% | 32.0% | 294.6% |
| NOTES: Project Operation assumes estimated current existing traffic project to the Year 2020. | | | | | | | |

The FJF Group Report concluded that increases to traffic flow on the:

- Newell Highway would be minimal (<6%) and would have no impact on traffic flows, which is currently well below the capacity of this road.
- Tomingley-Narromine Road and Tomingley West Road would be 16.5%, and the overall traffic volumes on this road would still be minor.
- Tomingley West Road would be 333%; however, the road will be adequate with upgrade to ensure pavement width and strength meet the required RMS engineering standard.

Intersection assessments were carried out for the intersections of:

- Newell Highway and Narromine-Tomingley Road; and
- Narromine-Tomingley Road and Tomingley West Road.

These assessments determined that both the intersections would operate efficiently following the development of the TGO and that no additional mitigation measures were required to be constructed.

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However, additional signs have been provided at each intersection to assist in the management of traffic using these intersections and the various other components of the external road network servicing the TGO.

3.3 TRAFFIC THROUGH TOMINGLEY VILLAGE

An assessment of traffic through Tomingley Village showed that the increase in traffic on the Newell Highway as a result of the project would be "negligible". The assessment indicated increased movement along the Newell Highway would increase by 3.2% during operations. However the increase in traffic through Tomingley village will be dependent upon the direction from which the workforce and materials travel. The majority of the workforce and materials travelling to site will come from the north (Dubbo/Narromine) and increase in traffic through Tomingley Village will be less than 1.6%.

All on site movements between Wyoming and Caloma during operations are via the Newell Highway underpass and therefore will result in no increase in traffic through the Tomingley village.

4. MANAGEMENT MEASURES

Traffic management measures to be implemented to manage external traffic movements associated with the TGO are outlined in the following sections of this report.

As a requirement of Project Approval, TGO will ensure that heavy vehicle movements associated with mining operations do not exceed 8 per day (4 in and 4 out) when measured as a daily average over any calendar month.

4.1 INTERSECTION OF THE NEWELL HIGHWAY AND THE NARROMINE-TOMINGLEY ROAD

As the existing intersection layout caters for the mine increased volumes of light and heavy vehicle numbers using the Newell Highway and the initial section of the Narromine-Tomingley Road, it is not proposed to install any traffic mitigation measures at this intersection.

Advance intersection warning signs on the Narromine-Tomingley Road are installed on the approach to the intersection with the Newell Highway and a bi-directional chevron hazard marker is installed at the intersection.

Directional signage indicating the turn off from the Newell Highway to the TGO have been installed at the intersection in conjunction with the existing Narromine directional sign.

Details of the existing and proposed traffic management measures implemented for the Newell Highway and the Narromine-Tomingley intersection are indicated on Drawing 01G_E19 included in Appendix B.

4.2 INTERSECTION OF TOMINGLEY WEST ROAD AND THE NARROMINE-TOMINGLEY ROAD

The signage at the intersection of Tomingley West Road and the Narromine -Tomingley Road have been upgraded to include directional signage for the TGO, warning signs for turning truck movements and advance warning signs on the approach to the intersection.

The major box culvert on Tomingley West Road approximately 100m west of the intersection with the Narromine Tomingley Road has had a concrete lip installed on each side of the culvert.

Two new street lights were installed at the intersection of the Tomingley West Road and Narromine - Tomingley Road in accordance with the Planning Agreement between Narromine Shire Council and Tomingley Gold Operations.

Details of the existing and proposed traffic management measures implemented for the Tomingley West Road and the Narromine -Tomingley intersection are indicated on Drawing 01G_E19 included in Appendix B of this Report.

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4.3 UPGRADING OF TOMINGLEY WEST ROAD

The eastern section of the Tomingley West Road (as far as TGO entrance road) has been upgraded and widened to a double lane, sealed road. The pavement has been strengthened so that it is capable of taking road trains. Detailed design drawings including signage and line marking are included in Appendix B of this report (Drawings 01G_E01 – 01G_E19).

4.4 INTERSECTION OF TOMINGLEY WEST ROAD AND THE MAIN SITE ACCESS ROAD

The intersection of the Tomingley West Road and the Main Site Access Road has been designed to accommodate the safe movement of vehicles on and off site. The design also includes directional signage for the Tomingley Gold Project, warning signs for turning truck movements and advance warning signs on all approaches to the intersection.

Details of the proposed traffic management measures implemented for the Tomingley West Road and the Main Site Access Road intersection along with detailed design for the intersection are included in Appendix B of this report on drawings 01C_E18 and 01C_E19.

4.5 COMMUNITY INFORMATION

The community of Tomingley and general road users are kept informed about traffic related issues via the following avenues:

- TGO information board within Tomingley Village;
- TGO information board at the truck rest station on the Newell Highway at Tomingley; and
- Information distributed through the Community Consultation Committee.
- Meetings with Narromine Shire Council during the project approval modification process where necessary.

The Information Notice Boards will indicate progress on the construction of the various components of the road infrastructure, expected completion dates and any delays that might be experienced due to such construction works being carried out.

A copy of the Traffic Management Plan is available on the Project Website www.alkane.com.au/tomingley Other avenues for the local community and general road users to obtain information include;

- TGO Project Website,
- The 24-hour TGO Community Information Line Number: 02 6865 6116;
- The project email address is info@tomingleygold.com.au.

This phone number and email address allow the public to gain access to information, make an enquiry or a complaint at any time.

TGO will also operate an open door policy so that members of the public are welcome to come to the site office to get information, make an enquiry or a complaint if this method is preferable to the telephone or internet.

All complaints will be registered in a database and responded to verbally within 24 hours.

4.6 TRAFFIC INCIDENT MANAGEMENT

Traffic incidents for mine related traffic on the external road network will be managed in accordance with the TGO Incident Response Management System.

The management of traffic related incidents will also include liaison with emergency authorities (police, ambulance, fire brigade etc) to ensure that such authorities are aware of the main site access road and emergency access routes available to the mine site.

4.7 EMERGENCY ACCESS ROADS

Two emergency access roads connect directly from the mine site to the Newell Highway, one on either side of the highway. These will only be used in the event of an on-site emergency.

The emergency access road security gates are locked and signage has been installed indicating the access is for emergency use only. In the event of an emergency site personnel will meet the necessary emergency vehicles at the gates and escort them through the site to the emergency thus ensuring the safety of the emergency vehicle through the site.

4.8 RESTRICTED ACCESS VEHICLES

Restricted Access Vehicles (RAVs) will need to deliver mine site components and large mining equipment to site.

A specific Traffic Control Plan (TCP) is required to be developed by the contractor in accordance with RMS requirements developed for each type of RAV delivery. The TCP will address the following issues:

- The TCP shall be prepared in accordance with the Road and Traffic Authority's Traffic Control at Worksites Manual – Issue I:2000 and by suitably qualified and accredited personnel in accordance with Section 2.4 of the Traffic Control at Worksites Manual.
- Appropriate permits being issued by Roads & Maritime Services and the NSW Police Force.
- Use of escort vehicles as required.
- Provision of traffic controllers as required.
- Restriction of RAV deliveries to daylight hours.

5. TRAFFIC MANAGEMENT PLAN OPERATION

5.1 ROLES AND RESPONSIBILITIES

The roles and responsibilities for the implementation of the Traffic Management Plan are indicated in Table 5.1.

Table 5.1 – Traffic Management Plan Implementation

| Role | Responsibility | |
|------------------------|--|--|
| TGO Operations Manager | Implementation of the Traffic Management Plan during mining operations | |
| All personnel | Follow all guidelines and Project rules with respect to traffic management | |

5.2 TRAFFIC MANAGEMENT PLAN AUDIT

The Traffic Management Plan will be audited in accordance with the internal audit processes incorporated into the Environmental Management Strategy.

5.3 TRAFFIC MANAGEMENT PLAN REVIEW

Reviews of the Traffic Management Plan will be undertaken annually, following operational or regulatory modification, or as per the TGO Environmental Management Strategy.

6. COMPETENCE TRAINING AND AWARENESS

All personnel working on the TGO will undergo a project induction. This induction includes information on the management of traffic related issues while travelling to and from site, including the following points:

- Consideration and courtesy are essential when driving on public roads;
- Speed limits must be strictly adhered to:
- Formal entries and exits from site must be used;
- Emergency exits are just for emergencies.

After completing the induction workers will sign a statement of attendance and records of this will be kept in the site office.

7. REFERENCES

AUSTROADS. Guide to Traffic Engineering Practice - Local Area Traffic Management

FJF Group Pty Ltd. Tomingley Gold Project Traffic Impact Assessment September 2011

Roads and Traffic Authority of NSW

- Traffic Control at Worksites Manual Issue I:2000
- Signs and Marking Manual
- Road Design Guide

Guide to Traffic Generating Developments

R.W. Corkery &Co. Pty Limited. Tomingley Gold Project Environmental Assessment Major Project Application No. PA 09_0155 May 2011,

APPENDIX A

Consultation with NSC and RMS

Alistair Whittle Geolyse PO Box 1963 154 Peisley St ORANGE NSW 2800

Dear Alistair

PROPOSED TOMINGLEY WEST ROAD UPGRADE

Thank you for the detailed design plans for the above road improvement project, Drawing Sheets 01B_E01 to 01B_E20 Revision B and Pavement Investigation and Design Report from Geotech, Ref: 11/439.

Please be advised that the work shown on the plans is approved by Council subject to the requirements for signs, markings and traffic facilities mentioned below:

Please note that there is not sufficient detail on the plans for signage to be assessed and it is a matter for the applicant to ensure that all signage, road markings and traffic facilities installed as part of the works, meet the relevant Roads and Maritime Services design requirements or, in the absence of a Roads and Maritime Services requirement, the current Australian Standard 1742 for legend, symbols, colours, font, dimensions, location, etc.

If you require further information, please contact Council's Manager Technical Services, Mr Ross Bignell, on 02 6889 9940.

Yours faithfully

Les Simons

Director of Engineering Services

| RMS Comments for consideration, taken from RMS email on 18 September 2012 to Henry Kaye | TGO Response to comments |
|--|---|
| Condition 44 of the Major Project Approval requires a TMP to be submitted, however the content of the TMP (as detailed in condition 44) only needs to address traffic issues at Tomingley West Road, traffic through Tomingley, traffic at the intersection of Newell Highway/Tomingley-Narromine Road (89), 89 /Tomingley West Road and site access road/Tomingley West Road. Condition 44 does not include the diversion of the highway and does not include the proposed emergency access to the highway (although it would seem appropriate that the latter is included in the TMP). | Comment Noted |
| In Appendix 7 to the Major Project Approval (Statement of Commitments) the proponent is required to submit two TMPs. The first TMP to address the matters detailed in condition 44. The second TMP being a Construction Road Traffic Management Plan (CRTMP), essentially a separate plan which addresses the underpass construction and diversion construction/operation process. | Comment Noted, this TMP addresses the requirements of Condition 44 of Project Approval |
| Emergency access road from site to Newell Highway. The TMP proposes that this access will only be used during flood events where the Tomingley West Road is unpassable. The TMP also proposes to provide flag men to regulate the movement of mine vehicles onto the highway to ensure safe movements. Access would only be available during daylight hours. | The TMP has been updated to reflect that the Emergency Access Roads will only be used in the event of an emergency and not during flooding. Feedback on the use of flagmen in a 110km/hr zone has been noted and the use of flagmen was removed from the management measures within the TMP. |
| Advice received from Alkane has been that the access from the highway would | |

| only be required in the event of an emergency on the mine site. The TMP is contrary to this advice. If the access is required for an on-site emergency only, no upgrading of the existing farm access is necessary. Should access to the highway be required for any event/use outside of this, a rural property access and BAR will be required. Flagmen/Traffic controllers may only operate in a 60km or less environment. The current speed zone in this locale is 110kmph. To provide traffic control on the highway would require the speed zone to be reduced to 60km during emergency events. This is not supported by RMS. | |
|---|--|
| TMP does not including sealing of Tomingley West Road (only refers to strengthening the road pavement). Major Project Approval requires sealing. | TMP has been updated to include details of the road upgrade including the sealing of the road. |
| Lighting of Tomingley West Rd/89 intersection - who pays for lighting operation costs? | Narromine Shire Council |
| Whilst traffic generation details have been provided in the TMP, no details of daily peak travel movements (eg shift changes). At the very least, it would appear that the 89/Tomingley West Rd intersection will require a BAR. | The TMP has been updated in section 3.2 Traffic Volume to provide further information. Please note that the 89/Tomingley West Road is currently a BAR intersection (as detailed within the Traffic Impact Assessment of the TGP EA). |
| TMP does not adequately address traffic through Tomingley | Comment is noted and further detail is provided in Section 2.1 |
| TMP does not provide detail of how conflict between project related traffic and other road users will be minimised. | Comment is noted and further detail is provided in Section 2.1 |
| TMP does not address movement of oversize vehicles to and from the site. | Section 4.9 has been updated. |
| Line marking at intersections needs to comply with RMS Delineation Guide. | Comment noted and design drawings amended accordingly |
| I wish to advise you that the formal acceptance of your Traffic Management Plan is undertaken at the "Construction Phase". The Project Management Plans as noted in the Checklist for Developers | Comment noted. |

SPECIALIST CONSULTANT STUDIES

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5 - Construction Section Project Management Plans, the developer at that point is required to submit all project management plans to RMS for review. These plans must include: 1) A Construction Program, 2) Quality Plan, 3) Inspection and Test Plans, Construction Traffic Management Plan (CTMP) including a Vehicle Movement Plan, 5) Traffic Control Plans, 6) A Construction Environment Management Plan including an Erosion and Sediment Control Plan

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APPENDIX B

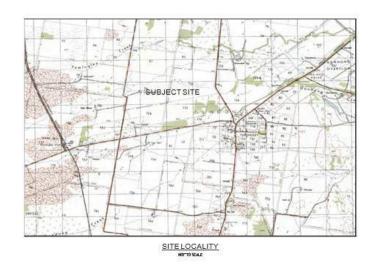
Design Drawings

TOMINGLEY GOLD PROJECT TOMINGLEY GOLD OPERATIONS LTD.

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PROPOSED TOMINGLEY WEST ROAD UPGRADE

| | SCHEDULE OF DRAWINGS | | | | |
|---------|---|------|------------|--|--|
| SHEET | TITLE | REV. | DATE | | |
| 01G_E01 | TITLE SHEET, DRAWING LIST, AND SITE LOCALITY | G | 24/05/2013 | | |
| 01G_E02 | ROAD TYPICAL CROSS SECTION AND DETAILS | G | 24/05/2013 | | |
| 01G_E03 | TOMINGLEY WEST ROAD PLAN AND LONG SECTION SHEET 1 OF 5 | G | 24/05/2013 | | |
| 01G_E04 | TOMINGLEY WEST ROAD PLAN AND LONG SECTION SHEET 2 OF 5 | G | 24/05/2013 | | |
| 01G_E05 | TOMINGLEY WEST ROAD PLAN AND LONG SECTION SHEET 3 OF 5 | G | 24/05/2013 | | |
| 01G_E06 | TOMINGLEY WEST ROAD PLAN AND LONG SECTION SHEET 4 OF 5 | G | 24/05/2013 | | |
| 01G_E07 | TOMINGLEY WEST ROAD PLAN AND LONG SECTION SHEET 5 OF 5 | G | 24/05/201 | | |
| 01G_E08 | TOMINGLEY WEST ROAD CROSS SECTIONS SHEET 1 OF 5 | G | 24/05/2013 | | |
| 01G_E09 | TOMINGLEY WEST ROAD CROSS SECTIONS SHEET 2 OF 5 | G | 24/05/201 | | |
| 01G E10 | TOMINGLEY WEST ROAD CROSS SECTIONS SHEET 3 OF 5 | G | 24/05/201 | | |
| 01G_E11 | TOMINGLEY WEST ROAD CROSS SECTIONS SHEET 4 OF 5 | G | 24/05/201 | | |
| 01G E12 | TOMINGLEY WEST ROAD CROSS SECTIONS SHEET 5 OF 5 | G | 24/05/201 | | |
| 01G_E13 | TOMINGLEY WEST ROAD SETOUT TABLES | G | 24/05/201 | | |
| 01G E14 | GUNDONG CREEK CULVERT BARRIER KERB DETAILS | G | 24/05/201 | | |
| 01G E15 | TOMINGLEY WEST ROAD PIPE CULVERT EXTENSION DETAILS | G | 24/05/201 | | |
| 01G E16 | TOMINGLEY WEST ROAD AND MINE ACCESS ROAD INTERSECTION DETAIL | G | 24/05/201 | | |
| 01G E17 | TOMINGLEY WEST ROAD AND MINE ACCESS ROAD SIGNAGE PLAN | G | 24/05/201 | | |
| 01G E18 | NARROMINE-TOMINGLEY ROAD AND TOMINGLEY WEST ROAD SIGNAGE PLAN | G | 24/05/201 | | |
| 01G E19 | PRIVATEACCESSREARRANGEMENTS | G | 24/05/201 | | |



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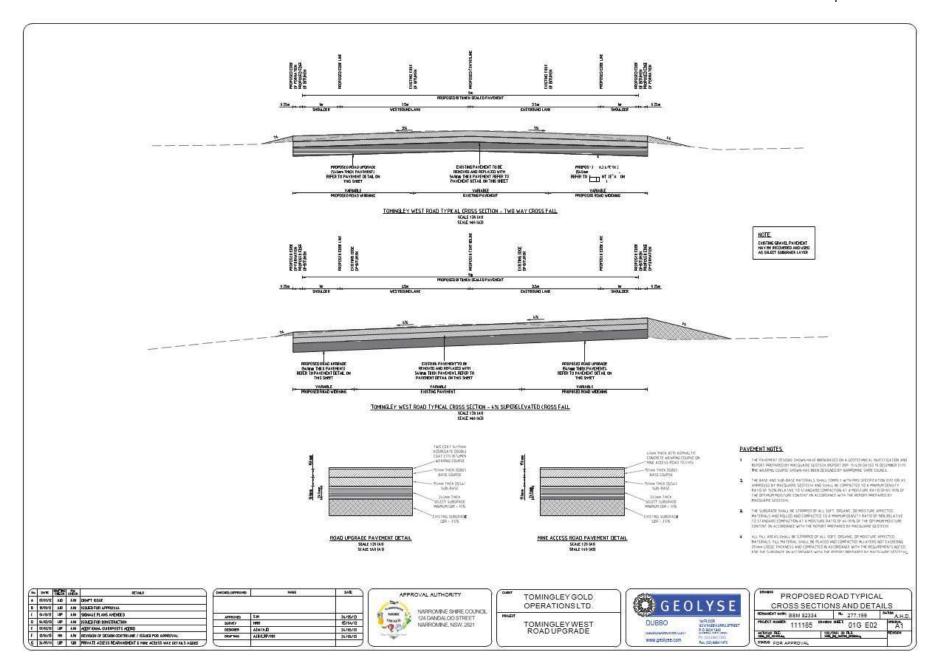
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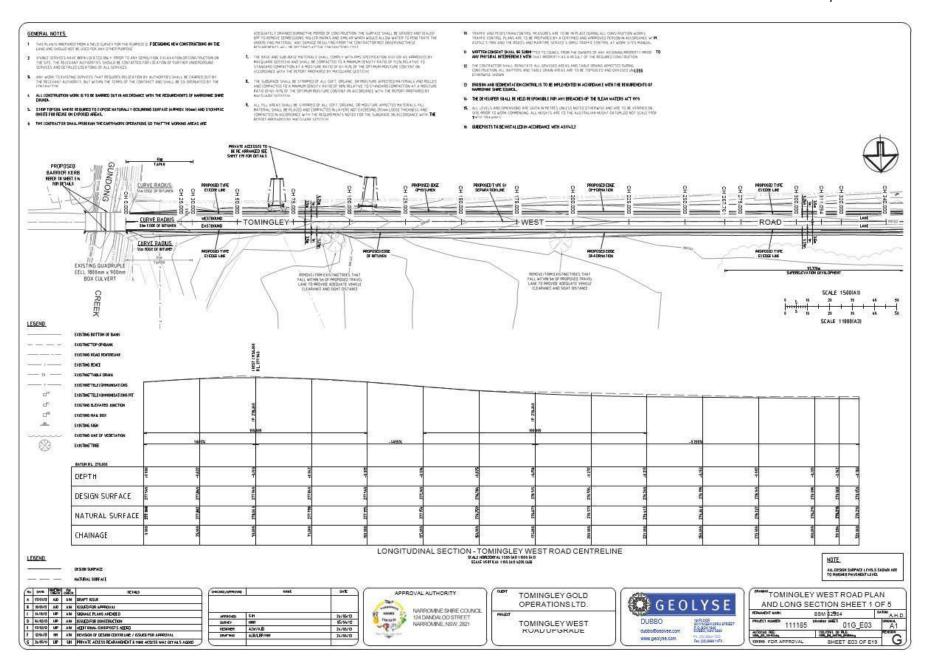


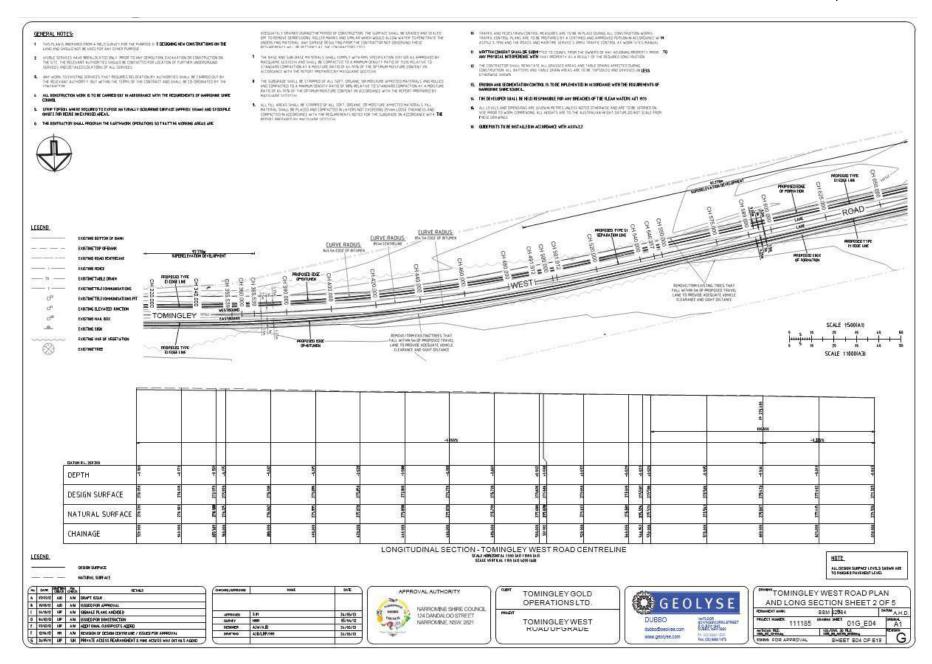
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| | ROADUPGRADE |

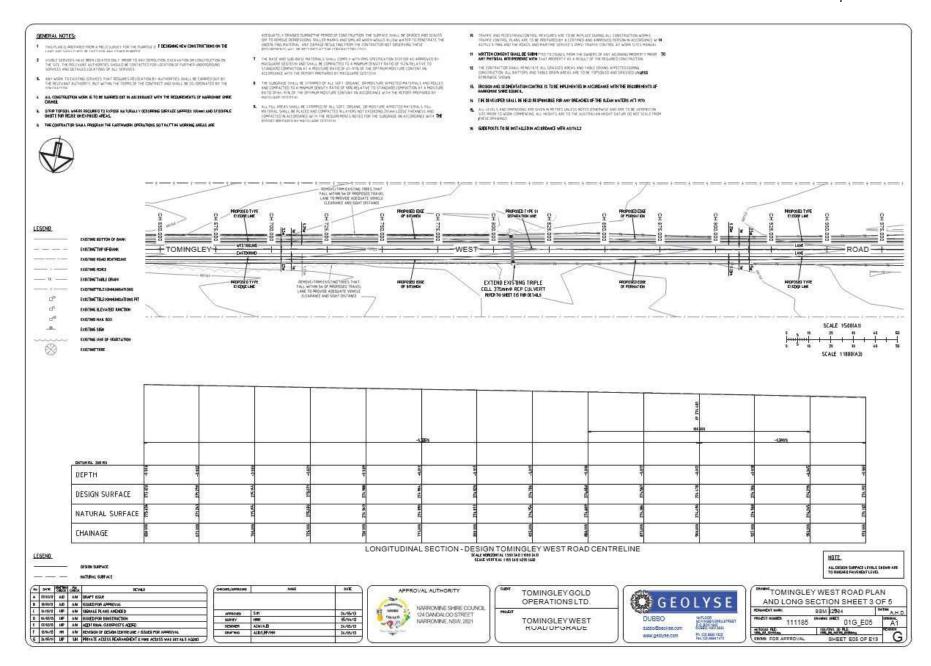
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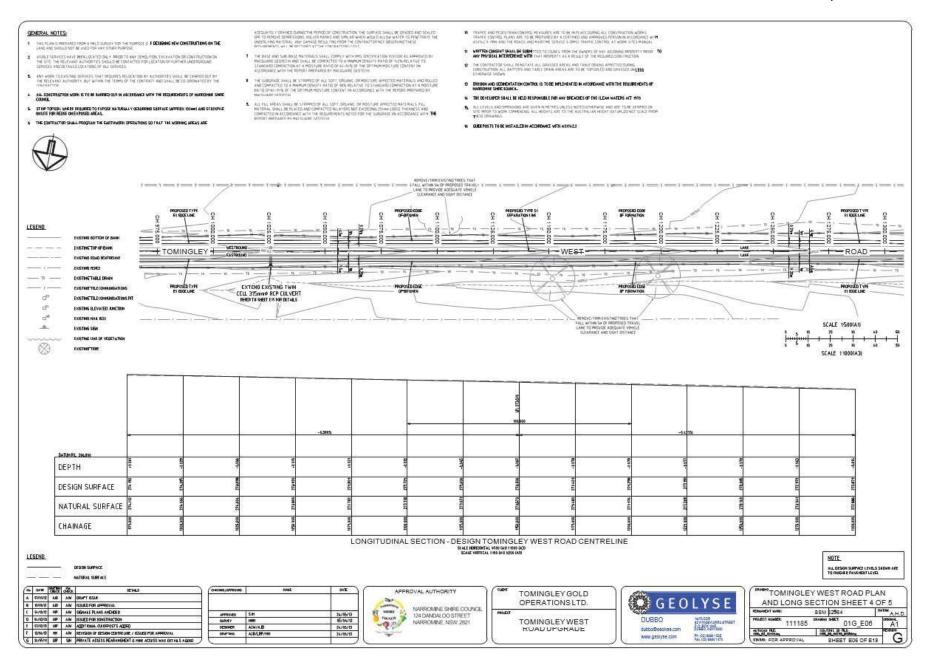
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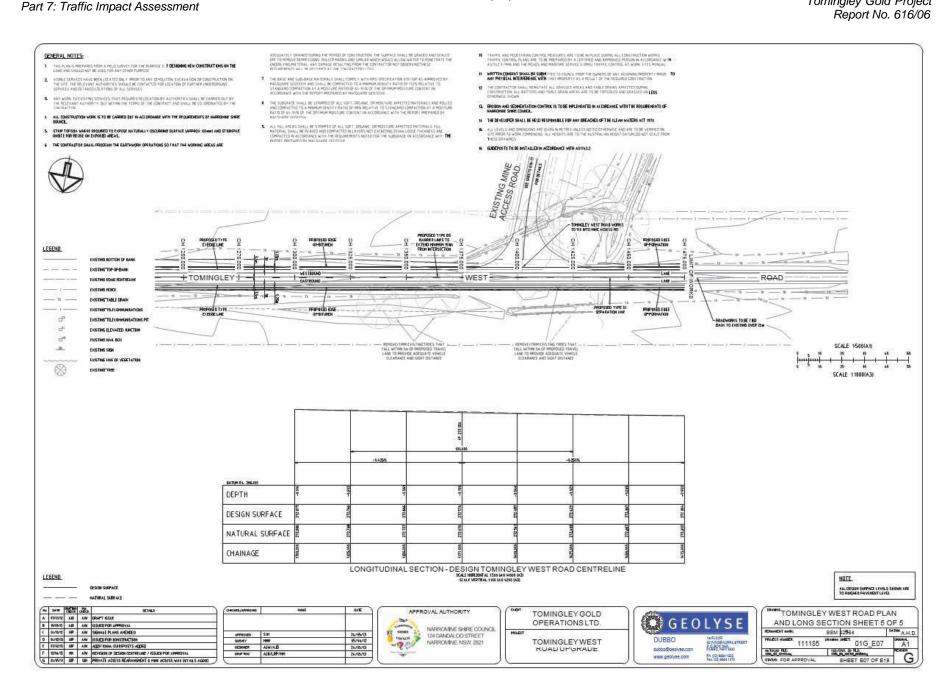


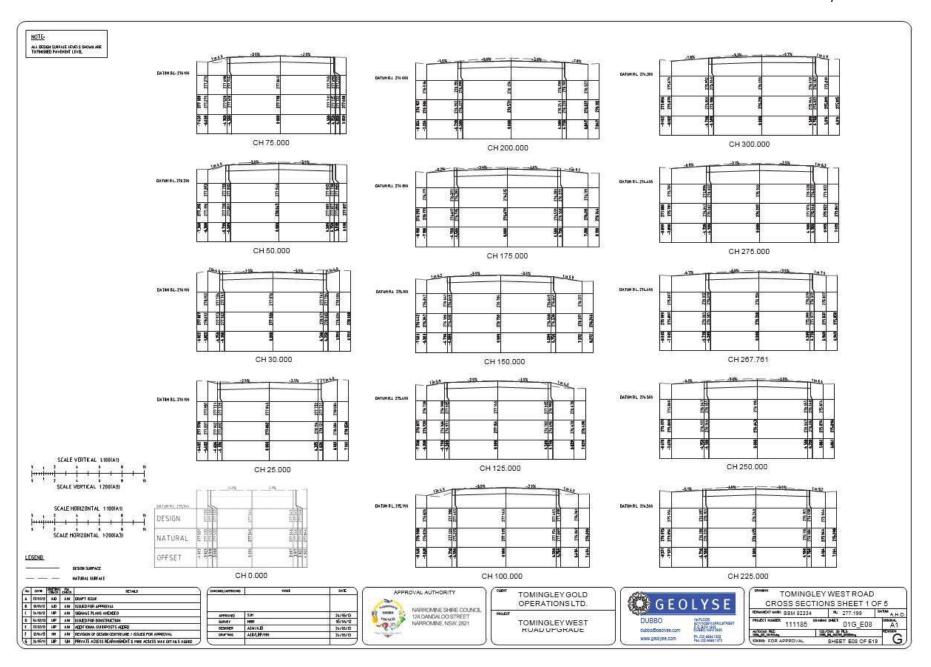


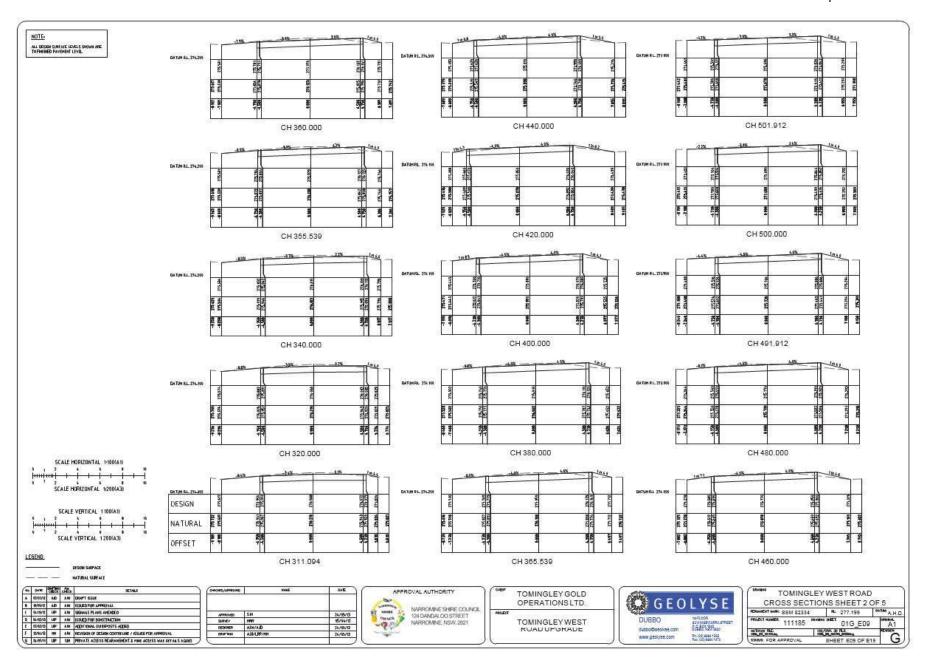


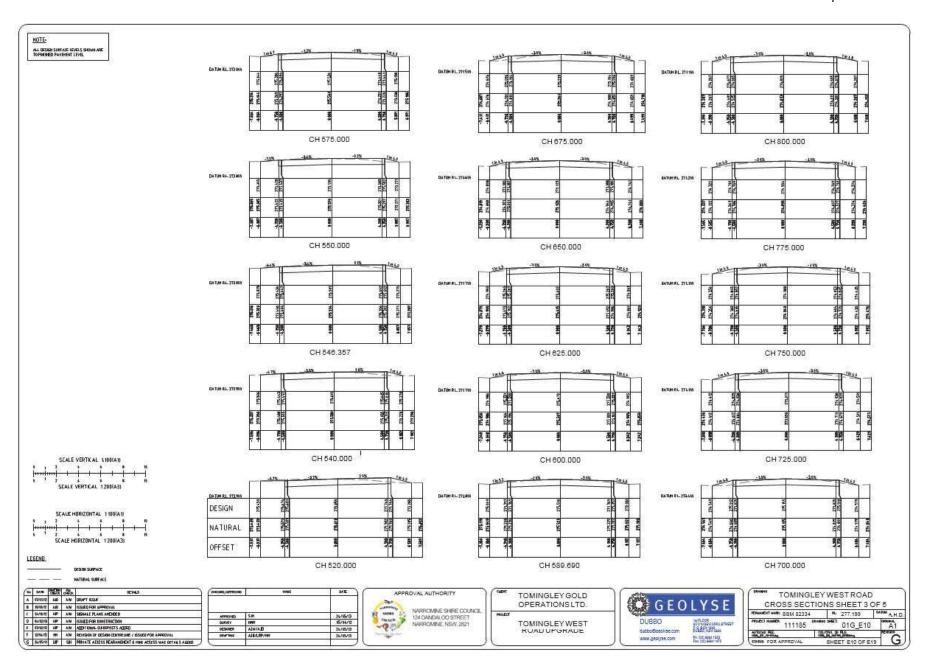


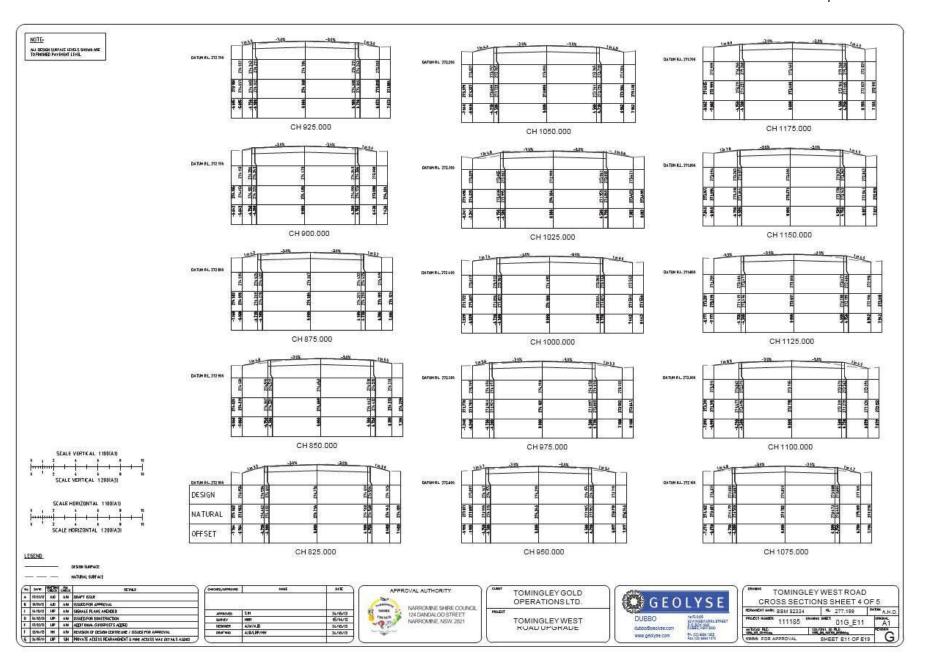
ALKANE RESOURCES LTD Tomingley Gold Project

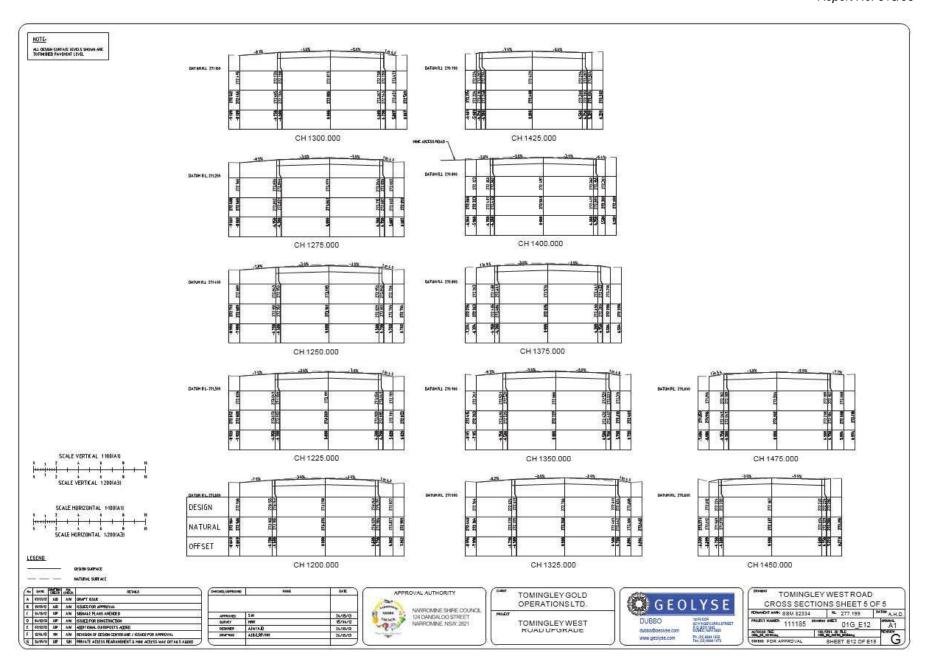


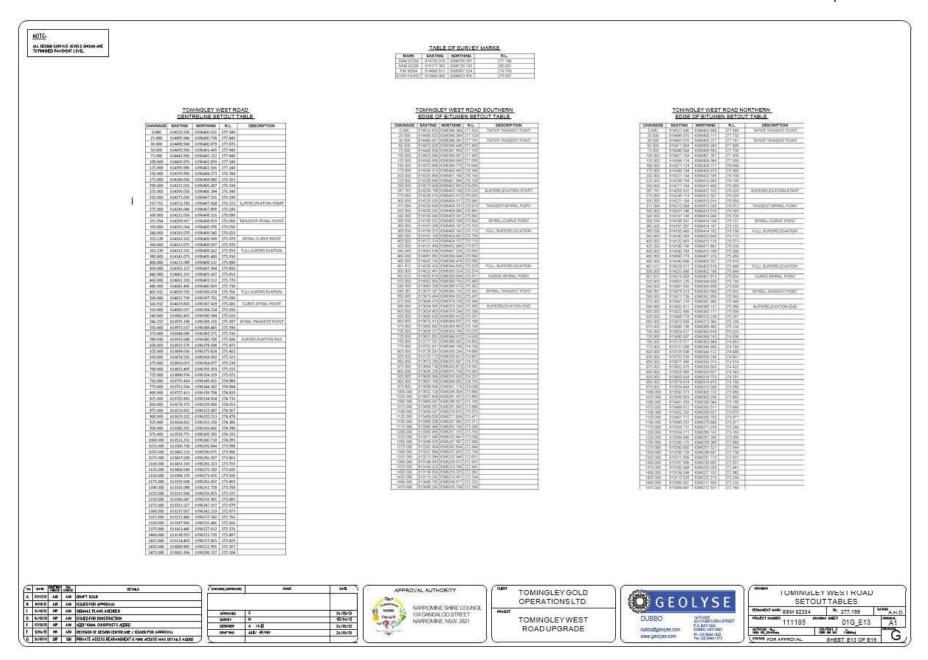


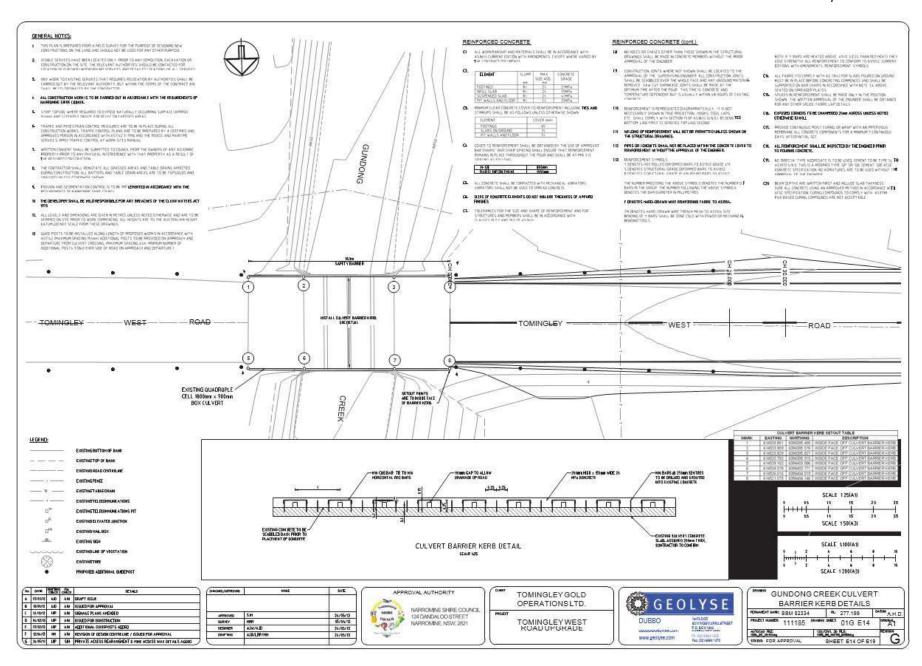


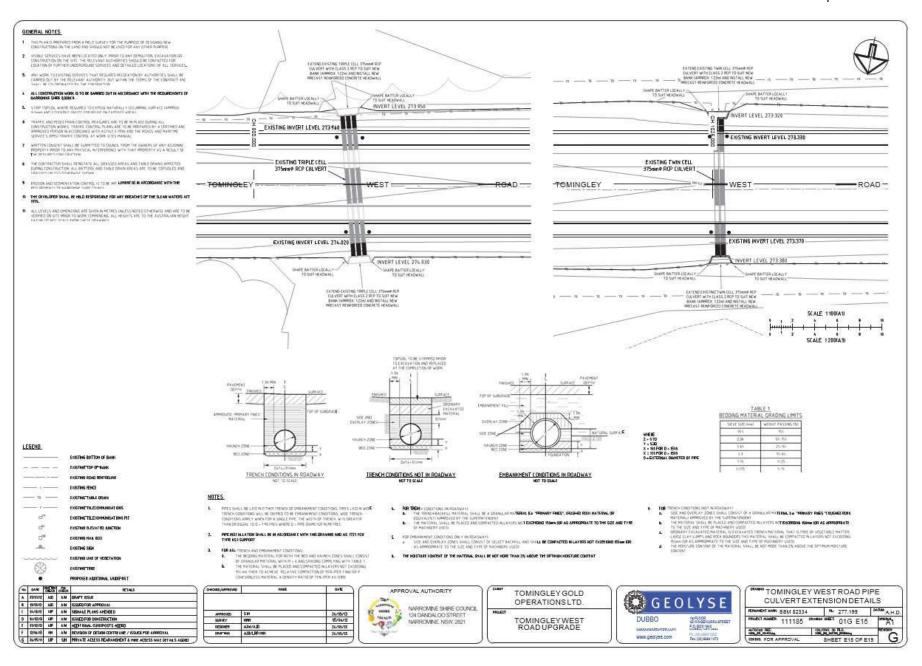


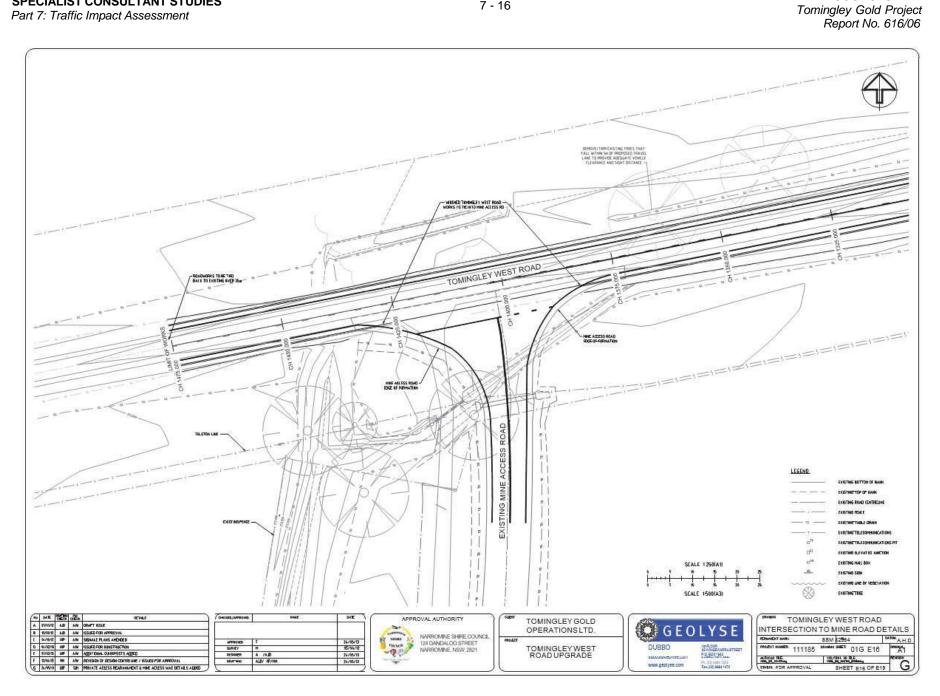


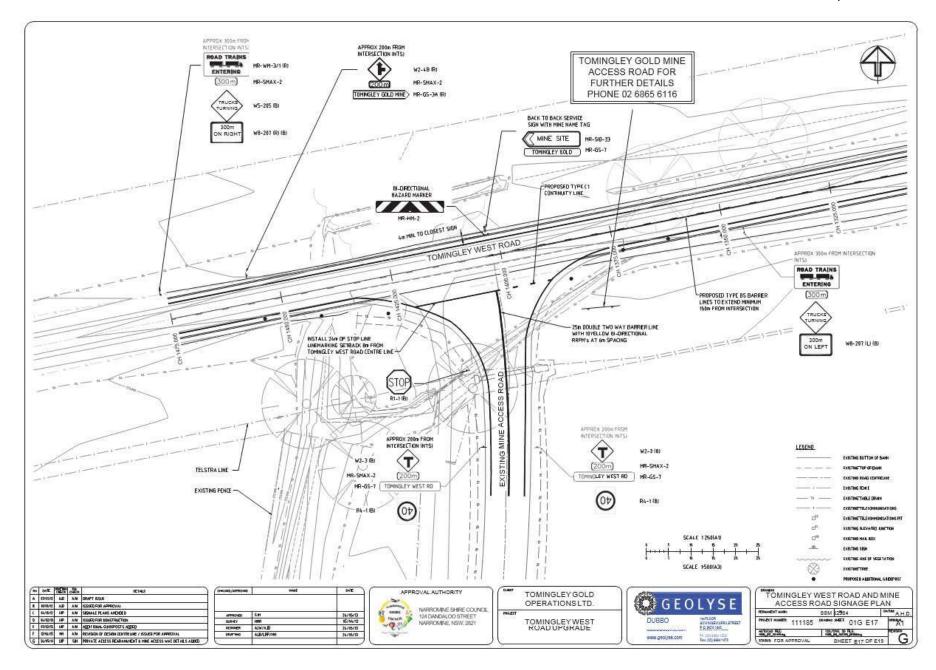


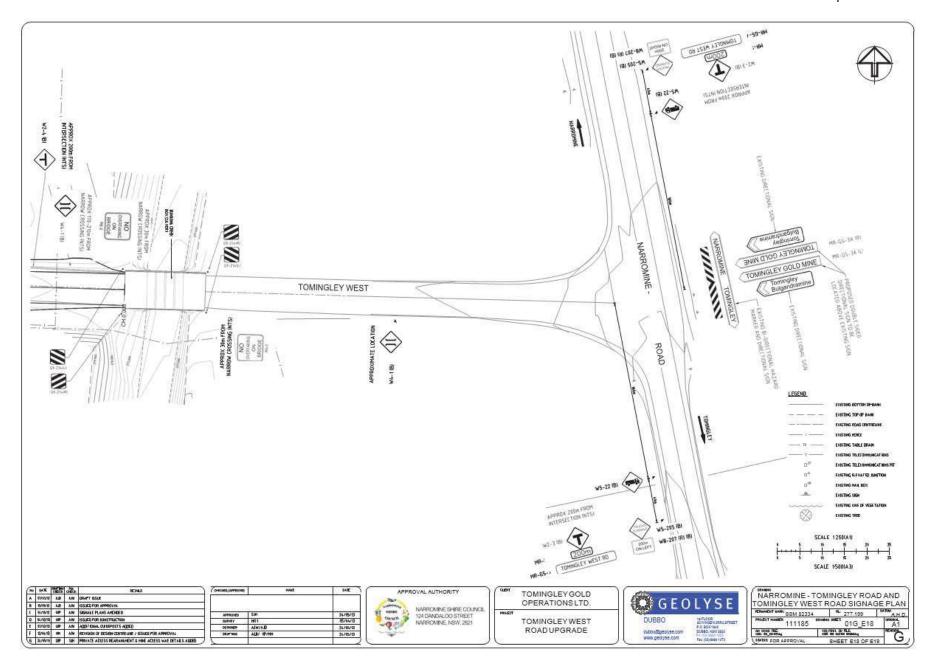




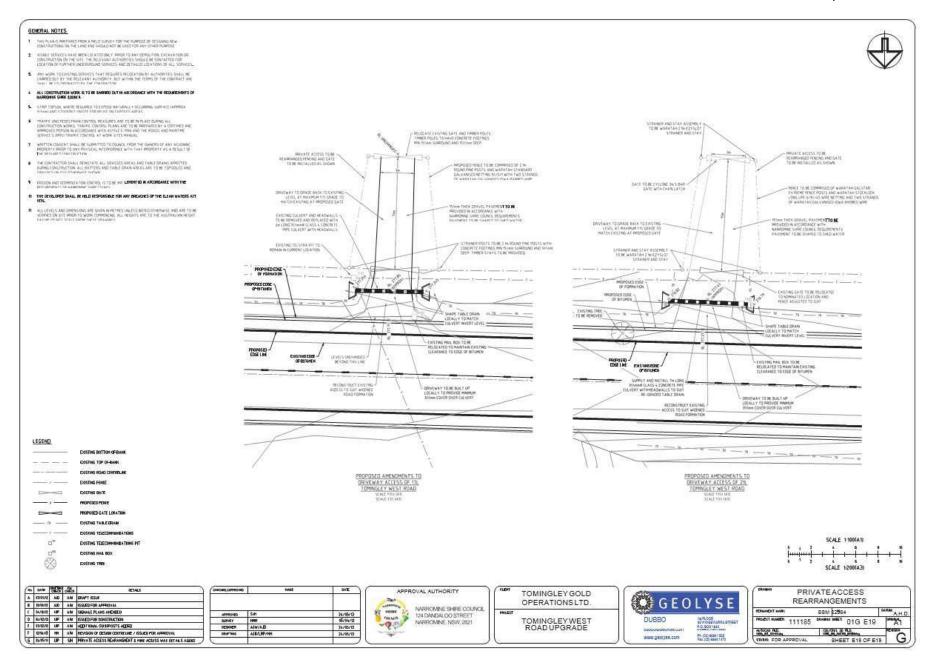








Tomingley Gold Project Report No. 616/06



APPENDIX C

Intersection Sensitivity Analysis (reproduced from EA)



Movement Summary

SH17 and MR89

2017 Base+Sen PM - Parkes

Give-way

Vehicle Movements

| Mov ID | Tum | Dem Flow (vch/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|-----|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 21 | 28.6 | 0.014 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 211 | 32.7 | 0.118 | 0.9 | LOS A | | 0.00 | 0.07 | 58.7 |
| SH17 - No | rth | | | | | | | | | |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.012 | 11.3 | LOS A | 1 | 0.39 | 0.66 | 46.9 |
| Approach | | 200 | 33.0 | 0.118 | 0.6 | LOS A | 1 | 0.02 | 0.03 | 59.2 |
| MR89 - W | est | | | | | | | | 100 | 55555 00 |
| 10 | L. | 11 | 30.0 | 0.500 | 26.7 | LOS B | 30 | 0.75 | 1.01 | 35.2 |
| 12 | R | 127 | 29.9 | 0.494 | 25.9 | LOS B | 30 | 0.75 | 1.05 | 35.0 |
| Approach | | 137 | 29.9 | 0.495 | 26.9 | LOS B | 30 | 0.75 | 1.05 | 35.1 |
| All Vehicle | | 548 | 32.1 | 0.500 | 7.3 | Not Applicable | 30 | 0.19 | 0.30 | 50.4 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue
- Density for continuous movement

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Site: 2017 Base+Sen PM - Parkes
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Movement Summary

SH17 and MR89

2017 Base+Sen AM - Parkes

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %н۷ | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|-----------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-----------------------------|-------------------------|
| SH17 - So | | | · service | | | | | | 999C/89 | |
| 1 | L | 127 | 29.9 | 0.083 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 317 | 31.9 | 0.118 | 3.7 | LOS A | | 0.00 | 0.27 | 55.0 |
| SH17 - No | orth | e, me venter er er | | | | ************* | - Indonesia | + Laur Traces | no accessor i appoint i des | M. Mary 1997 |
| 8 | т | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R. | 11 | 30.0 | 0.014 | 12.4 | LOS A | 1 | 0.47 | 0.70 | 45.8 |
| Approach | | 200 | 33.0 | 0.118 | 0.6 | LOS A | 1 | 0.02 | 0.03 | 59.1 |
| MR89 - W | est | | | | CO 1250 M | | | eses on | | R. J. Lee, Long School- |
| 10 | L | 11 | 30.0 | 0.105 | 19.4 | LOS B | 4 | 0.62 | 0.76 | 39.9 |
| 12 | R | 21 | 28.6 | 0.106 | 19.6 | LOS B | 4 | 0.62 | 0.00 | 39.8 |
| Approach | | 31 | 29.0 | 0.106 | 19.5 | LOS B | 4 | 0.62 | 0.84 | 39.8 |
| All Vehicle | es e | 548 | 32.1 | 0.118 | 3.5 | Not Applicable | 4 | 0.04 | 0.22 | 55.2 |

Symbols which may appear in this table:

Following Degree of Saturation $\beta \times 1.00$ for Short Lane with resulting Excess Flow $\star \times 1.00$ due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue # - Density for continuous movement

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Movement Summary

SH17 and MR89

2017 Base+Sen PM - Dubbo

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 21 | 28.6 | 0.014 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 211 | 32.7 | 0.118 | 0.9 | LOS A | | 0.00 | 0.07 | 58.7 |
| SH17 - No | rth | | | | | | | | | |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.012 | 11.3 | LOS A | 1 | 0.39 | 0.66 | 46.9 |
| Approach | | 200 | 33.0 | 0.118 | 0.6 | LOS A | 1 | 0.02 | 0.03 | 59.2 |
| | | | | | | | | 11.000 | | 0.000 |
| MR89 - W | est | | | | | | | | | |
| 10 | L | 117 | 29.9 | 0.248 | 13.3 | LOS A | 11 | 0.49 | 0.74 | 44.9 |
| 12 | R | 21 | 28.6 | 0.247 | 13.5 | LOS A | 11 | 0.49 | 0.84 | 44.7 |
| Approach | | 138 | 29.7 | 0.248 | 13.4 | LOS A | 11 | 0.49 | 0.76 | 44.8 |
| All Vehicle | s | 549 | 32.1 | 0.248 | 3.9 | Not Applicable | 11 | 0.13 | 0.23 | 54.6 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS 9 - Based on density for continuous movements

Following Queue # - Density for continuous movement

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Movement Summary

SH17 and MR89

2017 Base+Sen AM - Dubbo

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | % н ∨ | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|---------------|------------------------|------------------------|-------------------------|------------------------|-----------------------|--------------------------------|-----------------|-------------------|-------------------------|
| 9 666 FC | 90,880,60 | | eeseen a | 89 - 888 - 1 | | 9040 - MSS - 6940 - 1 | r an State | | | caninga |
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 21 | 28.6 | 0.014 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 211 | 32.7 | 0.118 | 0.9 | LOS A | | 0.00 | 0.07 | 58.7 |
| SH17 - No | orth | | The state and bound of | | | A PARKET, I | | | | 2011 |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 50.0 |
| 9 | R | 117 | 29.9 | 0.141 | 11.6 | LOS A | 7 | 0.42 | 0.72 | 46.6 |
| Approach | | 307 | 31.9 | 0.141 | 4.4 | LOS A | 7 | 0.16 | 0.27 | 54.1 |
| MR89 - W | eet | 3227 227 | \$ 100 Miles | | 100000001 1 | TA PRE DESCRIPTION | ##C001 61400 | 964.9 (996) | ermen K M | (1) (0.00) |
| 10 | ear. | 11 | 30,0 | 0.119 | 21.2 | LOS B | 5 | 0.63 | 0.72 | 20.6 |
| 12 | R | 21 | 28.6 | 0.119 | 21.4 | LOS B | 5 | 0.63 | 0.73 | 38.6 |
| Approach | 10.00 | 31 | 29.0 | 0.119 | 21.3 | LOS B | 5 | 0.63 | 0.83 | 38.5 38.5 |
| Will AND SE | part with the | r o stållige | | | ar y 17 Villa | | walle. | | 12000 | |
| All Vehicle | os | 549 | 32.1 | 0.141 | 4.0 | Not Applicable | 7 | 0.13 | 0.23 | 54.5 |

Symbols which may appear in this table:

Following Degree of Saturation $\# \times = 1.00$ for Short Lane with resulting Excess Flow $* \times = 1.00$ due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue # - Density for continuous movement

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Movement Summary

SH17 and MR89

2017 Base+Dev PM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|----------|------------------------|-----------------------|-------------------------|------------------------|--|--------------------------------|-----------------|-------------------|-----------------------------|
| | 11 1 100 | | 001 hot to a 100 to 1 | | | (* *) () () () () () () () () (| . 10000 (140 | | | # (* (*) (# (*) (*) (*) |
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 21 | 28.5 | 0.014 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 211 | 32.7 | 0.118 | 0.9 | LOS A | | 0.00 | 0.07 | 58.7 |
| SH17 - No | orth | | | | | | | | | |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.012 | 11.3 | LOS A | 1 | 0.39 | 0.66 | 46.9 |
| Approach | | 200 | 33.0 | 0.118 | 0.6 | LOS A | 1 | 0.02 | 0.03 | 59.2 |
| | | | | | | | | | 115.1 | C 25 (C) |
| MR89 - W | est | 11000 | | | | | | | | |
| 10 | L | 49 | 30.0 | 0.286 | 18.0 | LOS B | 14 | 0.59 | 0.80 | 40.9 |
| 12 | R | 56 | 30.4 | 0.286 | 18.1 | LOS B | 14 | 0.59 | 0.90 | 40.8 |
| Approach | | 106 | 30.2 | 0.286 | 18.1 | LOS B | 14 | 0.59 | 0.85 | 40.9 |
| All Vehicle | | | 22.2 | 0.206 | 4.0 | Not | | | | |
| All venici | 25 | 517 | 32.3 | 0.286 | 4.3 | Applicable | 14 | 0.13 | 0.21 | 54.1 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue # - Density for continuous movement

SIDRA SOLUTIONS

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Movement Summary

SH17 and MR89

2017 Base+Dev AM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|-----------|------------------------|------------|-------------------------|------------------------------|---------------------|--------------------------------|---|-------------------|-------------------------|
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 56 | 30.4 | 0.037 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 246 | 32.5 | 0.118 | 2.1 | LOS A | | 0.00 | 0.15 | 57.1 |
| SH17 - No | rth | tata na | | | | | | CONTRACTOR OF THE PARTY OF THE | | 0100000 0 |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 49 | 30.0 | 0.064 | 11.8 | LOS A | 3 | 0.43 | 0.71 | 46.4 |
| Approach | | 240 | 32.5 | 0.118 | 2.5 | LOS A | 3 | 0.09 | 0.15 | 56.6 |
| See 37 300 | 9690090 P | elek karangan | 6 386 66 3 | | 56 - 19 0 - 60 (0 | CAR TANA IIIO | H-1607-000-5-4-11 | | - 19 - 19 - 19 | |
| MR89 - W | est | | | | | | | | | |
| 10 | L | 11 | 30.0 | 0.105 | 19.4 | LOS B | 4 | 0.60 | 0.73 | 39.9 |
| 12 | R | 21 | 28.6 | 0.105 | 19.6 | LOS B | 4 | 0.60 | 0.88 | 39.8 |
| Approach | | 31 | 29.0 | 0.106 | 19.5 | LOS B | 4 | 0.60 | 0.83 | 39.8 |
| All Vehicle | 15 | 517 | 32.3 | 0.118 | 3.3 | Not Applicable | 4 | 0.08 | 0.19 | 55.4 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue # - Density for continuous movement

SIDRA SOLUTIONS

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Movement Summary

SH17 and MR89

2017 Base

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %н۷ | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 21 | 28.6 | 0.014 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 211 | 32.7 | 0.118 | 0.9 | LOS A | | 0.00 | 0.07 | 58.7 |
| SH17 - No | rth | | | | | | | | | |
| 8 | T | 189 | 33.2 | 0.118 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.012 | 11.3 | LOS A | 1 | 0.39 | 0.66 | 46.9 |
| Approach | | 200 | 33.0 | 0.118 | 0.6 | LOS A | 1 | 0.02 | 0.03 | 59.2 |
| MR89 - W | est | | | | | | | | | |
| 10 | L | 11 | 30.0 | 0.093 | 17.5 | LOS B | 4 | 0.57 | 0.71 | 41.4 |
| 12 | R | 21 | 28.6 | 0.092 | 17.6 | LOS B | 4 | 0.57 | 0.86 | 41.2 |
| Approach | | 31 | 29.0 | 0.092 | 17.6 | LOS B | 4 | 0.57 | 0.81 | 41.3 |
| All Vehicle | | 442 | 32.6 | 0.118 | 1.9 | Not Applicable | 4 | 0.05 | 0.10 | 57.2 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue # - Density for continuous movement

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Movement Summary

SH17 and MR89

2009 Base+Sen PM - Parkes

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %H V | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|------------|----------|---------------------------------|------------------|-------------------------|------------------------|---|--------------------------------|-----------------|---------------------|-------------------------|
| SH17 - So | uth | | 1,000 | open passes | ADDRESS NO. | 12.000000000000000000000000000000000000 | (1000010000) | | 1966 - 1965 1966 | |
| 1 | E | 16 | 31.2 | 0.011 | 9.3 | LOS A | 0 | 0.00 | 0,67 | 49.0 |
| 2 | Ť | 158 | 32.9 | 0.098 | 0.0 | LOS A | o | 0.00 | 0.00 | 60.0 |
| Approach | | 174 | 32.8 | 0.098 | 0.9 | LOS A | | 0.00 | 0.06 | 58.8 |
| SH17 - No | orth | 93 M (20 (0) 1 (1) 1 2 2 2 | | | ermeese y | 44 (9 (9a)) (salasa | | | | e and the same of |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.011 | 11.0 | LOS A | 0 | 0.35 | 0.65 | 47.2 |
| Approach | | 168 | 32.7 | 0.098 | 0.7 | LOS A | 0 | 0.02 | 0.04 | 59.1 |
| MR89 - W | est | Carrier 9 vince | e concessor spen | | | | | 5 | | 208 309 |
| 10 | L | 11 | 30.0 | 0.400 | 21.0 | LOS B | 23 | 0.66 | 0.87 | 38.7 |
| 12 | R. | 121 | 29.8 | 0.394 | 21.2 | LOS B | 23 | 0.66 | 0.97 | 38.6 |
| Approach | ACCUARTS | 131 | 29.8 | 0.394 | 21.2 | LOS B | 23 | 0.66 | 0.96 | 38.6 |
| All Vohick | | 473 | 31.9 | 0.400 | 6.4 | Not Applicable | 23 | 0.19 | 0.30 | 51.5 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

- Based on density for continuous movements

Following Queue # - Density for continuous movement



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Movement Summary

SH17 and MR89

2009 Base+Sen AM - Parkes

Give-way

Vehicle Movements

| Mov ID | Turn | Dom Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | outh | - W. M. M. M. | | 300 10 100 1000 | | | | | | |
| 1 | L | 121 | 29.8 | 0.079 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 279 | 31.5 | 0.098 | 4.0 | LOS A | | 0.00 | 0.29 | 54.7 |
| SH17 - No | orth | | | | | | | | | |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.013 | 12.0 | LOS A | 1 | 0.44 | 0.68 | 46.2 |
| Approach | | 168 | 32.7 | 0.098 | 0.7 | LOS A | 1 | 0.03 | 0.04 | 59.0 |
| | | | | | | | | | | |
| MR89 - W | est | | | | | | | | | |
| 10 | L | 11 | 30.0 | 0.074 | 16.8 | LOS B | 3 | 0.56 | 0.71 | 41.9 |
| 12 | R | 16 | 31.2 | 0.074 | 17.0 | LOS B | 3 | 0.56 | 0.86 | 41.7 |
| Approach | | 26 | 30.8 | 0.074 | 16.9 | LOS B | 3 | 0.56 | 0.80 | 41.8 |
| All Vehicle | es | 473 | 31.9 | 0.098 | 3.6 | Not Applicable | 3 | 0.04 | 0.23 | 55.2 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow # x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue # - Density for continuous movement

SIDRA SOLUTIONS

Site: 2009 Base+Sen AM - Parkes D:\Modelling\FJF\09-April-Sidra\20100115-revise\SH17 and MR89.aap Processed Jan 15, 2010 12:24:00AM

Tomingley Gold Project Report No. 616/06





Movement Summary

SH17 and MR89

2009 Base+Sen PM - Dubbo

Give-way

Vehicle Movements

| Mav ID | Turn | Dem Flow (veh/h) | %НV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|--------|---|------|-------------------------|------------------------|----------------------------------|--------------------------------|------------------|-------------------|-------------------------|
| SH17 - So | auth. | - 0000000000000000000000000000000000000 | | 50-50-5 | | ACTIVITY FOR | 16.55 (4.96 | | EC 191499 (814) | i inti birani |
| 1 | i i | 16 | 31.2 | 0.011 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | o | 0.00 | 0.00 | 60.0 |
| Approach | · (| 174 | 32.8 | 0.098 | 0.9 | LOS A | | 0.00 | 0.06 | 58.8 |
| SH17 - No | orth | aran Pi inc mina inchin | | | Mary Salah Ma | - We - In a trial langual SE for | | VA SAMPILATO | 56500 | aler (g) |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 10 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.011 | 11.0 | LOS A | 0 | 0.35 | 0.65 | 47.2 |
| Approach | | 168 | 32.7 | 0.098 | 0.7 | LOS A | 0 | 0.02 | 0.04 | 59.1 |
| MR89 - W | est | provided to the pain | | 100 EXTERNAL 1 | | Como, services | | al assalta (140- | 14.48564444.50 | - hadd glad |
| 10 | L | 116 | 30.2 | 0.211 | 12.2 | LOS A | 10 | 0.43 | 0.70 | 45.9 |
| 12 | R | 16 | 31.2 | 0.211 | 12.4 | LOS A | 10 | 0.43 | 0.62 | 45.8 |
| Approach | | 132 | 30.3 | 0.211 | 12.2 | LOS A | 10 | 0.43 | 0.72 | 45.9 |
| All Vehicle | es | 474 | 32.1 | 0.211 | 4.0 | Not Applicable | 10 | 0.13 | 0.24 | 54.6 |

Symbols which may appear in this table:

Following Degree of Saturation $\theta \propto 1.00$ for Short Lane with resulting Excess Flow $\star \propto 1.00$ due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue # - Density for continuous movement

SIDEA SOLUTIONS

Site: 2009 Base+Sen PM - Dubbo D:\Modelling\F7F\09-April-Sidra\20100115-revise\SH17 and MR89.aap Processed Jan 15, 2010 12:23:59AM

| OF SECTION ASSESSMENT | | | | | | | | | |
|-----------------------|----------|---------------|--|-----------------|-----------|---|----------|-------------|--------------|
| | ADDONAGE | | ************************************** | A CONTRACTOR OF | | | | | ***C0C0C0C0C |
| array - marray | | -10.00 - 100 | -50° -30° -8 -100 | -07 -03 | 2220 10 | | 20.2000 | 20.00 | 47.40 144 |
| 11112 | -2.2536 | - P. O. C. | ACC 101 A 28 | -26:34 | 2.000 | ~ | 201-2010 | 200 200 000 | -05'06': 56 |
| a ready because a | -0.4 | -07-05 / D.S. | AND LONGE OF | 2.00 | A 47.00 M | - | 20.75.0 | 27.400 | 22.14 |
| | | | | | | | | | |

Tomingley Gold Project Report No. 616/06

| | | | | | | | | |
|-------------|--------------|------------------|--------|-----------|----|----------|-----------|--------------|
| | | | | | | | | |
| | -36.56 - 56. | -00 OC 4 III | 49.10 | 2.2222 30 | | 201 2222 | 27.72.0 | 20.00 10 |
| -2.2636 | 200 | -000 min at 200 | -26:36 | 2.2000 00 | ~ | 201.2818 | 201 20100 | 255.00 - 546 |
| -4.4 | 27.76 - 94 | AND SPECIAL SEC. | 22.00 | A 400 M | 18 | 20.00 | 27.46.0 | 22.00 |

SIDRA INTERSECTION

Movement Summary

SH17 and MR89

2009 Base+Sen AM - Dubbo

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|------|---------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | outh | | | | | | | | | |
| 1 | L | 16 | 31.2 | 0.011 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 174 | 32.8 | 0.098 | 0.9 | LOS A | | 0.00 | 0.06 | 58.8 |
| SH17 - No | orth | | | | | | | | | |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 116 | 30.2 | 0.132 | 11.2 | LOS A | 6 | 0.38 | 0.70 | 47.0 |
| Approach | | 274 | 31.8 | 0.132 | 4.7 | LOS A | 6 | 0.16 | 0.30 | 53.7 |
| MR89 - W | est | | | | 9.0 | | | | | |
| 10 | L | 11 | 30.0 | 0.083 | 18.2 | LOS B | 3 | 0.55 | 0.68 | 40.8 |
| 12 | R | 16 | 31.2 | 0.082 | 18.3 | LOS B | 3 | 0.55 | 0.86 | 40.7 |
| Approach | | 26 | 30.8 | 0.082 | 18.3 | LOS B | 3 | 0.55 | 0.79 | 40.7 |
| All Vehicle | es | 474 | 32.1 | 0.132 | 4.1 | Not Applicable | 6 | 0.12 | 0.24 | 54.5 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SOLUTIONS

Site: 2009 Base+Sen AM - Dubbo D:\Modelling\FJF\09-April-Sidra\20100115-revise\SH17 and MR89.aap Processed Jan 15, 2010 12:23:59AM

| | | -9-39 - 36 | -01-25 A M | 49.40 | 2220 30 | | 20.2224 | 27.22.0 | 2022 12 | |
|--|-------------------------|--------------------------|---|-------------------|--|------|------------|--------------|----------------|--|
| many of the second of | -2.2636 | -2.42 65 | -300 min A 24 | -26.36 | 2220 20 | ~ | 32.3818 | 201-24-14 | -79°-348 - 168 | |
| 2000 | -0.8 | 25.00 / 94. | Jan. Sarate id. | 200 | 2.000 00 | - 18 | 20.000 | 27.26.0 | A 2 1 18 | |
| | CONTRACTOR OF CHICA- | The second second second | | | | | | | | |
| BELLEVIAN SECTION | Charles and the control | | 0.0000 | | | | | | | |
| | | | | | | | | | | |
| | - AD00700 | | 2404b-05 | - Contraction (A) | The same of the sa | | | | -websessess | |
| management | 2.012 | 20.00 | - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 | 22.43 | 2 4 2 2 2 2 | - | 20.75.4 | 201 2010 | AP-107 E.E. | |
| The state of the s | 2.00 | 200 | -00 JUNE 20 | 1.00 | 2.2000 30 | 46 | 297 297 39 | 20, 30.10 | -37-36 W | |
| Contract Con | | 20.00 200 | -0-200 | 20.00 | 2.2200 10 | 2.2 | 27. 25.25 | 27 - 17 - 17 | -0.00 | |
| THE RESERVE OF THE PERSON OF T | | | | | | | | | | |

Tomingley Gold Project Report No. 616/06



SIDRA - "-INTERSECTION

Movement Summary

SH17 and MR89

2009 Base+Dev PM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------------|---|-----------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| SH17 - So | uth | 0.0000000000000000000000000000000000000 | | | 776000000 | 1 100 - 1000 | and a later (Sec. | At the side | 44 3938.9K : | Aptrocas into |
| 1 | L | 16 | 31.2 | 0.011 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 174 | 32.8 | 0.098 | 0.9 | LOS A | | 0.00 | 0.06 | 58.8 |
| SH17 - No | rth | | * 9000 ju | motor : Noticestin | older, implije | Print (2000/00) An | E 14. 19334E1 | 100000 1000 | | 3 (202) (203) |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.011 | 11.0 | LOS A | 0 | 0.35 | 0.65 | 47.2 |
| Approach | | 168 | 32.7 | 0.098 | 0.7 | LOS A | 0 | 0.02 | 0.04 | 59.1 |
| MR89 - W | | 10 10 10 10 10 10 | 2 220020 | | erana japo j | Magazinesi, j | | 16 35 page | 20 20 3 | a. Wala |
| 10 | L | 49 | 30.0 | 0.216 | 14.9 | LOS B | 10 | 0.51 | 0.71 | 43.5 |
| 12 | R | 47 | 29.8 | 0.217 | 15.1 | LOS B | 10 | 0.51 | 0.85 | 43.3 |
| Approach | | 97 | 29.9 | 0.216 | 15.0 | LOS B | 10 | 0.51 | 0.78 | 43.4 |
| 275 2753 | HOME ACTOR | EEE 0900 3 | FC[1](4) | 3909000 | 90.00 | 265060 W.V | 100 miles | F1 (84 A C) | 100 MM 0 | W W 3 |
| All Vehicle | s | 439 | 32.1 | 0.217 | 3.9 | Not Applicable | 10 | 0.12 | 0.21 | 84.6 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue
- Density for continuous movement



Site: 2009 Base+Dev PM D:\Modelling\FJF\09-April-Sidra\20100115-revise\SH17 and MR89.eap Processed Jan 15, 2010 12:23:59AM

| | - 400 VIII - 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 22.5 | | -N H -N H -2 H | 7,570 A 7,570 A 7,570 A | ~####### V 3 | 20 20 E | JF JF 0 | 22 3 22 3 | |
|---------------------------|--|-----------------------|-----------|----------------------|-------------------------------|--------------------|---------|---------|--------------|--|
| | | 22.0 | 70 70 M H | | 2222 | | | 20.000 | 20.0 | |
| STATE OF THE STATE OF THE | TALBURATURE OF STREET, JULY | and the second second | 2.22.2 | 23/0 | 2 2 2 2 2 2 | | 20.00 | 20.20 | 22.2 | |
| | | | | | | | | | | |

Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

SH17 and MR89

2009 Base+Dev AM

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|---------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-----------------------|-------------------------|
| | | 20020 | 10.0000 | and contact | | | | A | and the second second | K - 10 K - 10 K |
| SH17 - So | uth | 0.00 | 10230 | | | | 772 | | 27.00 | |
| 1 | L | 47 | 29.8 | 0.031 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 205 | 32.2 | 0.098 | 2.1 | LOS A | | 0.00 | 0.15 | 57.1 |
| SH17 - No | orth | | | | | | | | | |
| 8 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 47 | 29.8 | 0.056 | 11.3 | LOS A | 2 | 0.39 | 0.69 | 46.8 |
| Approach | | 205 | 32.2 | 0.098 | 2.6 | LOS A | 2 | 0.09 | 0.16 | 56.4 |
| | | | | | | 4 | | 0.000.000 | 5 50 65 | 10 100.00 |
| MR89 - W | est | | | | | | | | | |
| 10 | L | 11 | 30.0 | 0.073 | 16.6 | LOS B | 3 | 0.54 | 0.69 | 42.0 |
| 12 | R | 16 | 31.2 | 0.073 | 16.8 | LOS B | 3 | 0.54 | 0.85 | 41.9 |
| Approach | | 26 | 30.8 | 0.073 | 16.7 | LOS B | 3 | 0.54 | 0.79 | 41.9 |
| All Vehicle | es | 436 | 32.1 | 0.098 | 3.2 | Not Applicable | 3 | 0.07 | 0.19 | 55.6 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

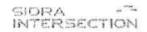
Following LOS # - Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SOLUTIONS

Site: 2009 Base+Dev AM
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Processed Jan 15, 2010 12:23:58AM

| | | | | | | | 20.2224 | | |
|--|--|------------|------------------|----------------|---|-----------|------------|-----------|-------------|
| CO. Con. and Co. | | | | | | | | | |
| | -0.8 | 27.70 / 64 | _000 Johnson 18. | 22:44 | J. 22 10 10 | - | 20.20.0 | 27.200 | 10 2 114 |
| 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | | | | | | | |
| | | | | | | | | | |
| A STORE SHOWER | CONTRACTOR OF THE CONTRACTOR | | | | | | | | |
| | | | | | | | | | |
| Tarichi, Silchemer | | | | ~~~~ | | ~45.0000m | | | -v6500/900- |
| Taring Steel | | | | | | | 27.202 | 20.000 | |
| inger egere. | Accepted to | | -2009005 | -groundring- | ***** | | | | |
| ing and the second of the seco | - ASSESSED - SECOND - | 20.0 | 2000 | -200 Marin 19- | 1200 | - 44 | 20 20 M | 20, 20,00 | 22.5 |
| and day such a | - Anno 191 - Anno 191 - Anno 191 - Anno 191 - Anno 191 | 24.5 | 20.000 | 22.0 | 7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | - 44 | -07 -03 ex | 2012046 | 20 at 10 |



Movement Summary

SH17 and MR89

2009 Base

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|------------------------|--------|------------------------|-----------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-----------------------------|---|
| 696.312.00 | 2000 | | | | | Sec. 1999 1996 | er lighte | 699 C S | \$100mm 1000mm (\$1000mm) | |
| SH17 - So | uth | | | | | | | | | |
| 1 | L | 16 | 31.2 | 0.011 | 9.3 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 2 | T | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 174 | 32.8 | 0.098 | 0.9 | LOS A | | 0.00 | 0.06 | 58.8 |
| SH17 - No | rth | | | 7507 30 | | | | | | 100 10 10 |
| 8 | 3 | 158 | 32.9 | 0.098 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| 9 | R | 11 | 30.0 | 0.011 | 11.0 | LOS A | 0 | 0.35 | 0.65 | 47.2 |
| Approach | | 168 | 32.7 | 0.098 | 0.7 | LOS A | 0 | 0.02 | 0.04 | 59.1 |
| MR89 - W | est | | | | Se Section 1 | | | | reger turns | 12.000000000000000000000000000000000000 |
| 10 | L | 11 | 30.0 | 0.065 | 15.2 | LOS B | 3 | 0.50 | 0.67 | 43.2 |
| 12 | R | 16 | 31.2 | 0.065 | 15.4 | LOS B | 3 | 0.50 | 0.81 | 43.0 |
| Approach | | 26 | 30.8 | 0.065 | 15.4 | LOS B | 3 | 0.50 | 0.76 | 43.1 |
| All Histories esternis | G 4903 | A100117 0.4 | i bernera | FID 0000 1 20 | and the same | | | | | |
| All Vehicle | :9 | 368 | 32.6 | 0.098 | 1.8 | Not Applicable | 3 | 0.05 | 0.10 | 57.4 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue # - Density for continuous movement

FIORA SOLUTIONS

Site: 2009 Base
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Tomingley Gold Project Report No. 616/06



SIDRA ---INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2017 Base+Sen PM Tomingley

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|------|------------------------|-------------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| Tomingle | | bood | | | | | | | | 11.1040401 |
| 1 | L | 4 | 40.0 | 0.200 | 11.2 | LOS A | 11 | 0.30 | 0.59 | 47.3 |
| 3 | R | 109 | 40.0 | 0.200 | 11.7 | LOS A | 11 | 0.30 | 0.68 | 46.9 |
| Approach | | 115 | 40.0 | 0.199 | 11.6 | LOSA | 11 | 0.30 | 0.67 | 47.0 |
| MR89 - Ea | st | | | | | | | | | *** |
| 4 | L | 4 | 0.0 | 0.021 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.021 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 35 | 25.7 | 0.021 | 0.9 | LOSA | | 0.00 | 0.08 | 58.5 |
| A | | | 771 18 1718 | | | | | | | × 34 34000 |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 32 | 29.0 | 0.022 | 0.1 | LOS A | 1 | 0.12 | 0.00 | 58.3 |
| 12 | R | 4 | 0.0 | 0.022 | 8.6 | LOS A | 1 | 0.12 | 0.65 | 48.1 |
| Approach | | 35 | 25.7 | 0.022 | 1.1 | LOS A | 1 | 0.12 | 0.07 | 56.9 |
| All Vehicle | os | 185 | 34.6 | 0.200 | 7.6 | Not Applicable | 11 | 0.21 | 0.45 | 50.5 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow # x = 1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SOLUTIONS

Site: 2017 Base+Sen PM Tomingley D:\Modelling\FJF\09-April-Sidra\20100115-revise\MR89 and Tomingley West.aap Processed Jan 15, 2010 12:29:36AM

| | | | | 20.00 | 1000 0 | -800- | | -0.00 | |
|--|--|--------------------------|--|-----------------|---|-------------|---------|-------|-------------|
| | | | | | | *** | | | -webosynous |
| | | | | | | | | | |
| CORPORATION CONTRACTOR | Contract and Child and Contract of the | | | | | | | | |
| STREET, STREET | MALE CACCAGE AND ARRIVE | | 2000 | | | | | | |
| | COMMUNICIPAL DRIVE, CANADA | management of the second | | | | | | | |
| 200 | 2.000 | 20.0 | 20.00 | -36 34 2 2 4 | 2220 | | 30 3810 | 20.00 | 22.0 |
| | - ADDITION | | ************************************** | -monore- | 200000000000000000000000000000000000000 | ~35 (50)2~~ | | | -weecenew. |

Tomingley Gold Project Report No. 616/06



SIDRA --INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2017 Base+Sen AM Tomingley

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %ну | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|----------|---|-------------------------|-------------------------|------------------------|--|--------------------------------|-----------------|-------------------|-------------------------|
| | | 9 305 35 | 10 1000 | STREET | | 2017 B S 12 5 | | 460 or 16 (640) | | |
| Tomingle | y West R | oad | | | | | | | | |
| 1 | L | 4 | 40.0 | 0.016 | 11.1 | LOS A | 1 | 0.28 | 0.60 | 47.4 |
| 3 | R | 4 | 40.0 | 0.016 | 11.5 | LOS A | 1 | 0.28 | 0.67 | 47.1 |
| Approach | | 10 | 40.0 | 0.016 | 11.3 | LOS A | 1 | 0.28 | 0.64 | 47.2 |
| MR89 - Ea | | *************************************** | er je ja sastojal iz is | | | CH40.1 (H)40.14 | | March 200 (0) | | 1202 |
| 4 | L | 109 | 0.0 | 0.078 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.078 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 140 | 6.4 | 0.078 | 6.4 | LOS A | | 0.00 | 0.52 | 51.0 |
| MR89 - W | est | | | 4.44.730.000 | ander galactica | | 20,70,700 | 400 0000 | 700 5 7 | 2000000 |
| 11 | T | 32 | 29.0 | 0.022 | 0.5 | LOS A | - 10 | 0.25 | 0.00 | 56.6 |
| 12 | R | 4 | 0.0 | 0.022 | 9.0 | LOS A | 1 | 0.25 | 0.64 | 47.6 |
| Approach | | 35 | 25.7 | 0.022 | 1.5 | LOS A | 1 | 0.25 | 0.07 | 55.4 |
| 1 1000 | 6 94000 | | SOLUTION NO. | 3.00 | 2000 500 | (1 × 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + | F385 3(900) | | 100 m | 4 4 14 |
| All Vehicle | es | 185 | 11.9 | 0.078 | 5.7 | Not Applicable | 1 | 0.06 | 0.44 | 51.6 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue # - Density for continuous movement

SIORA SOLUTIONS

Site: 2017 Base+Sen AM Tomingley D:\Modelling\FJF\09-April-Sidra\20100115-revise\MR89 and Tomingley West-aap Processed Jan 15, 2010 12:29:36AM

| 188 188 188 | | 2000 2000 2000 2000 2000 2000 2000 200 | 2000 2000 2000 2000 | 2200 A 2200 A 2200 B | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 2.20 2.20 2.20 | 28:0 28:0 28:0 22:0 |
|-------------------|----------------------|---|------------------------------|----------------------------|--|-------------------------------|------------------------------|
| | 27 H 27 H 28 H | 2000 | 2 2 3 2 3 2 3 8 | 2000 0 | 20 2000 20 2000 20 2000 20 2000 | 20 20 4 20 20 4 20 20 4 | 20.0 20.0 20.0 |

Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2017 Base+Sen PM Narromine

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|------------------|--------|------------------------|---------|---|------------------------|---------------------|--------------------------------|-----------------|------------------------------------|-------------------------|
| 6.5 × 8(%) × 100 | (4) | Y 100 100 | 9.00 | * | 20.00 | 1.30 K (40) F | 200 | | No. 1 Mar. 1 (10) 16 (10) 100 (10) | |
| Tomingley | West R | toad | | | | | | | | |
| 1 | L | 109 | 40.0 | 0.139 | 10.1 | LOS A | 7 | 0.16 | 0.63 | 48.3 |
| 3 | R | 4 | 40.0 | 0.139 | 10.5 | LOS A | 7 | 0.16 | 0.69 | 48.0 |
| Approach | | 115 | 40.0 | 0.139 | 10.1 | LOS A | 7 | 0.16 | 0.63 | 48.2 |
| MR89 - Ea | st | | | | | | | | | |
| 4 | L | 4 | 0.0 | 0.021 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.021 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 35 | 25.7 | 0.021 | 0.9 | LOS A | | 0.00 | 0.08 | 58.5 |
| | | | | | | | | | | |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 32 | 29.0 | 0.022 | 0.1 | LOS A | 1 | 0.12 | 0.00 | 58.3 |
| 12 | R | 4 | 0.0 | 0.022 | 8.6 | LOS A | 1 | 0.12 | 0.65 | 48.1 |
| Approach | | 35 | 25.7 | 0.022 | 1.1 | LOS A | 1 | 0.12 | 0.07 | 56.9 |
| 100 10 | | CHC W | AC 9000 | 00.000 11.000 | 00' 10' 10' | 30 30 101 3 4 | | | | |
| All Vehicle | es | 185 | 34.6 | 0.139 | 6.7 | Applicable | 7 | 0.12 | 0.42 | 51.4 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDION SOLUTIONS

Site: 2017 Base+Sen PM Narromine
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| | - AD00700 | | | | | | | | |
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Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2017 Base+Sen AM Narromine

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------------|--------|------------------------|------------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| Tomingle | West R | | | | | | | | | |
| 1 | L | 4 | 40.0 | 0.017 | 11.4 | LOS A | 1 | 0.19 | 0.60 | 47.1 |
| 3 | R | 4 | 40.0 | 0.017 | 11.8 | LOS A | 1 | 0.19 | 0.69 | 46.8 |
| Approach | | 10 | 40.0 | 0.017 | 11.6 | LOS A | 1 | 0.19 | 0.65 | 46.9 |
| MR89 - Ea | st | | | | 3444 | | | | | 104 ESERTO |
| 4 | L | 4 | 0.0 | 0.021 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.021 | 0.0 | LOS A | D | 0.00 | 0.00 | 60.0 |
| Approach | | 35 | 25.7 | 0.021 | 0.9 | LOS A | | 0.00 | 0.08 | 58.5 |
| MR89 - W | ant. | EXTRA PERMITTER | 1 040 8168 | 500 H | 19645 (91) | | atities a section | salouna in chia | .5442.4473.447 | |
| 11 | T | 32 | 29.0 | 0.097 | 0.2 | LOS A | 4 | 0.12 | 0.00 | 20.0 |
| 12 | R | 109 | 0.0 | 0.097 | 8.6 | LOS A | - 4 | 0.13 | 0.00 | 58.3 |
| Approach | | 140 | 6.4 | 0.098 | 6.7 | LOS A | 4 | 0.13 | 0.65 | 48.1 50.1 |
| 11.44 (11.1 (10.4 | | | | | . 24 | | J., | | (100 miles) | |
| All Vehicle | es | 185 | 11.9 | 0.099 | 5,9 | Not Applicable | 4 | 0.11 | 0.43 | 51.3 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Pollowing Queue # ~ Density for continuous movement

SHORA SOLUTIONS

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Movement Summary

MR89 and Tomingley West Road

2017 Base+ Dev PM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|--------|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| Tomingley | West R | toad | | | | | | | | |
| 1 | L | 39 | 41.0 | 0.179 | 10.8 | LOS A | 9 | 0.23 | 0.61 | 47.7 |
| 3 | R | 75 | 40.0 | 0.179 | 11.3 | LOS A | 9 | 0.23 | 0.68 | 47.3 |
| Approach | | 114 | 40.4 | 0.179 | 11.1 | LOS A | 9 | 0.23 | 0.66 | 47.5 |
| MR89 - Ea | st | | | | | | m 1m2 - 1 | 1.00 | 3000 30 10 | |
| 4 | L | 4 | 0.0 | 0.021 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.021 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 35 | 25.7 | 0.021 | 0.9 | LOS A | | 0.00 | 0.08 | 58.5 |
| MR89 - W | | and the second species | | | | | | | | |
| 11 | T | 32 | 29.0 | 0.022 | 0.1 | LOS A | | 0.13 | A 00 | F0.0 |
| 12 | R | 4 | 0.0 | 0.022 | 8.6 | | | 0.12 | 0.00 | 58.3 |
| *** | | | | | | LOS A | 1 | 0.12 | 0.65 | 48.1 |
| Approach | | 35 | 25.7 | 0.022 | 1.1 | LOS A | | 0.12 | 0.07 | 56.9 |
| All Vehicle | is | 184 | 34.8 | 0.179 | 7.3 | Not Applicable | 9 | 0.17 | 0.44 | 50.9 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SOLUTIONS

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| 79 | | 10.00 | -07 -07-07-04 | 27.2 . 16 | 2.470.00 | 2.3 | 20, 2020 | 207 - 107 - 107 | -22.00 |



Movement Summary

MR89 and Tomingley West Road

2017 Base+Dev AM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-----------------|---------|------------------------|--------------|-------------------------|------------------------|----------------------|--------------------------------------|-----------------|-------------------|-------------------------|
| | | 100020 2002 | W. IV. 40364 | To represent | 1,3100, 100 | had been a remark to | THE RESERVE OF THE PERSON NAMED IN | | 2000 DAN 50 | (mark) (d |
| Tomingley | | | 10000 | 0.000 | 3222 | 1022211 | 100 | 12/22/2 | 627522 | 0000 |
| 1 | L | 4 | 40.0 | 0.016 | 11.2 | LOS A | 1 | 0.26 | 0.60 | 47.3 |
| 3 | R | 4 | 40.0 | 0.016 | 11.6 | LOS A | - 1 | 0.26 | 0.68 | 47.0 |
| Approach | | 10 | 40.0 | 0.016 | 11.4 | LOS A | 1 | 0.26 | 0.64 | 47.1 |
| MR89 - Ea | st | | | entinents of | 0.000.00 | 20-11-277777 | 777 - 776 7 | 100 | | |
| 4 | L. | 75 | 0.0 | 0.059 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.059 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 106 | 8.5 | 0.059 | 5.8 | LOS A | | 0.00 | 0.47 | 51.7 |
| rapide (Alberta | 65361.3 | E SE 25 (95.5 | 898 R | 5850806 33 | 8 7 8 80 | | e 30 7 100 100 | 267 M.M. MI | annen e e | 0.404.00 |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 32 | 29.0 | 0.049 | 0.4 | LOS A | 2 | 0.21 | 0.00 | 57.1 |
| 12 | R | 39 | 0.0 | 0.049 | 8.9 | LOS A | 2 | 0.21 | 0.64 | 47.8 |
| Approach | | 70 | 12.9 | 0.049 | 5.1 | LOS A | 2 | 0.21 | 0.36 | 51.5 |
| All Vehicle | 15 | 186 | 11.0 | 0.059 | 5.0 | Not Applicable | 2 | 0.09 | 0.44 | 51.4 |

Symbols which may appear in this table:

Following Degree of Saturation * x = 1.00 for Short Lane with resulting Excess Flow
* x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue # - Density for continuous movement

STORA SOLUTIONS

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| OF STREET PARTY AND ADDRESS. | | | | | | | | | |
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| 21125 | | - NP 100 - TAX | -50° -30° -8 -100 | 207 143 | 2220 10 | | 20.000 | 20.00 | -07-20 152 |
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Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2017 Base

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %H V | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|--------|------------------------|---------------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| Tomingley | west R | toad | | | | | | | | |
| 1 | L | 4 | 40.0 | 0.015 | 10.5 | LOS A | 1 | 0.18 | 0.61 | 48.1 |
| 3 | R | 4 | 40.0 | 0.015 | 10.9 | LOS A | 1 | 0.18 | 0.66 | 47.8 |
| Approach | | 10 | 40.0 | 0.015 | 10.7 | LOS A | 1 | 0.18 | 0.64 | 47.9 |
| | | | | | | | | Miles 2 5000 | | ** . *** |
| MRS9 - Ea | st | | | | | | | | | |
| 4 | L | 4 | 0.0 | 0.021 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 32 | 29.0 | 0.021 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 35 | 25.7 | 0.021 | 0.9 | LOS A | | 0.00 | 0.08 | 58.5 |
| m. m | | 40.000 | No. 1 (10) 11 | | | | | | 081 15585 | |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 32 | 29.0 | 0.022 | 0.1 | LOS A | 1 | 0.12 | 0.00 | 58.3 |
| 12 | R | 4 | 0.0 | 0.022 | 8.6 | LOS A | 1 | 0.12 | 0.65 | 48.1 |
| Approach | | 35 | 25.7 | 0.022 | 1.1 | LOS A | 1 | 0.12 | 0.07 | 56.9 |
| All Vehicle | 05 | 80 | 27.5 | 0.022 | 2.2 | Not Applicable | 1 | 0.08 | 0.15 | 56.3 |

Symbols which may appear in this table:

Following Degree of Saturation #x = 1.00 for Short Lane with resulting Excess Flow #x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue

- Density for continuous movement

SIDRA SOLUTIONS

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Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2009 Base+Sen PM Tomingley

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %н۷ | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|--------------|------------------------|-----------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| Tomingley | West R | oad | in Marino | | in charges | 115 . TO THEFT | | | | .0. 650000 |
| 1 | L | 3 | 33.3 | 0.188 | 11.0 | LOS A | 10 | 0.27 | 0.59 | 47.5 |
| 3 | R | 108 | 39.8 | 0.188 | 11.4 | LOS A | 10 | 0.27 | 0.67 | 47.2 |
| Approach | | 111 | 39.6 | 0.188 | 11.4 | LOS A | 10 | 0.27 | 0.67 | 47.2 |
| MR89 - Ea | | (m. minorino) (man) | 100000 | 40.000.000.000.00 | | ent. en transmissi | Carlotta estado - Sonto | 190 | | F 582-2-544 |
| 4 | L | 3 | 0.0 | 0.018 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 26 | 30.8 | 0.018 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 29 | 27.6 | 0.018 | 0.8 | LOS A | | 0.00 | 0.07 | 58.6 |
| MR89 - W | est | | | ******* | 777777 E | :28 - 5/59 (5) | | | 50 35 34 550 | t tomotor |
| 11 | T | 26 | 30.8 | 0.018 | 0.1 | LOS A | 1 | 0.11 | 0.00 | 58.5 |
| 12 | P. | 3 | 0.0 | 0.018 | 8.6 | LOS A | 1 | 0.11 | 0.65 | 48.2 |
| Approach | | 29 | 27.6 | 0.018 | 1.0 | LOS A | 1 | 0.11 | 0.07 | 57.2 |
| 26. | ext miles in | Article (section in | 75 696 | C+34-038031 | 4 99 90 | Poran Karibacadae | | 9.544(0) | W 0 0 | av danne |
| All Vehicle | es | 169 | 35.5 | 0.188 | 7.8 | Not Applicable | 10 | 0.20 | 0.46 | 50.4 |

Symbols which may appear in this table:

Following Degree of Saturation

x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue # - Density for continuous movement

STORA SOLUTIONS

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| | CONTRACTOR SALES | receive a region from the first | | | | | | | |
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| | | | 20000 | | 2000 | | | AV 100-40 | 20.00.00 |
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| | 1 P A 2 A A A A A A A A A A A A A A A A A | 22 H | 20000 | | 2000 | | -0.000 -0.000 -0.000 -0.000 | AV 100-40 | 20.00.00 |

Tomingley Gold Project Report No. 616/06





Movement Summary

MR89 and Tomingley West Road

2009 Base+Sen AM Tomingley

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|----------|------------------------|-------------------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------------|-------------------------|
| Yomiaala | Wort D | end. | m () () () () | | | (1000)00 10 1 100 | 100 mm | | 100 TO 10 TO 100 TO 100 | ****** |
| Tomingle | A MG2C K | | 22.2 | 0.000 | 100 | 100 4 | 0 | 0.26 | 0.60 | 47.7 |
| 1 | - | 3 | 33.3 | 0.009 | 10.8 | LOS A | 0 | 0.25 | 0.60 | 47.7 |
| 3 | R | 3 | 33.3 | 0.009 | 11.2 | LOS A | 0 | 0.25 | 0.65 | 47.4 |
| Approach | | 6 | 33.3 | 0.009 | 11.0 | LOS A | 0 | 0.25 | 0.63 | 47.6 |
| MR89 - E | ist | | | | | | | | | |
| 4 | L | 108 | 0.0 | 0.074 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 26 | 30.8 | 0.074 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 134 | 6.0 | 0.074 | 6.6 | LOS A | | 0.00 | 0.54 | 50.8 |
| | | | | | | | | | | |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 26 | 30.8 | 0.018 | 0.5 | LOS A | 1 | 0.24 | 0.00 | 56.7 |
| 12 | R | 3 | 0.0 | 0.018 | 8.9 | LOS A | 1 | 0.24 | 0.64 | 47.7 |
| Approach | | 29 | 27.6 | 0.018 | 1.4 | LOS A | 1 | 0.24 | 0.07 | 55.6 |
| All Vehicle | es | 169 | 10.7 | 0.074 | 5.9 | Not Applicable | 1 | 0.05 | 0.46 | 51.4 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow $^* x = 1.00$ due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue

- Density for continuous movement

SIDRA SOLUTIONS

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| | - Managemen | 24.5 | 20000 | | 2000 0 | - | -07 -10 cm | 2012046 | 40.001.00 |
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| | - According | 24.5 | 20000 | | 2000 0 | | -07 -10 cm | 2012046 | 40.001.00 |





Movement Summary

MR89 and Tomingley West Road

2009 Base+Sen PM Narromine

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | % HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|-------------------------|-----------------------------|-------------|-------------------------|------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| 200 50000 | 90 72 655.41 | 110000 × | 38.8.8 | | 94 888 W. O | | | 2000 | | 3099 205 |
| Tomingle | West R | load | | | | | | | | |
| 1 | L | 108 | 39.8 | 0.132 | 10.0 | LOS A | 6 | 0.14 | 0.63 | 48.3 |
| 3 | R | 3 | 33.3 | 0.130 | 10.4 | LOS A | 6 | 0.14 | 0.68 | 48.1 |
| Approach | | 111 | 39.6 | 0.132 | 10.0 | LOS A | 6 | 0.14 | 0.63 | 48.3 |
| MR89 - Ed | st | 14. 36.5 \$40.5 - 36.00-2-1 | | | You have the wine | on a trace of | | * 570 7 | 1685 W. C. C. | |
| 4 | L | 3 | 0.0 | 810.0 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 26 | 30.8 | 0.018 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 29 | 27.6 | 0.018 | 8.0 | LOS A | | 0.00 | 0.07 | 58.6 |
| MR89 - W | est | | | | | MARKET STORY FOR | | 30,4004 30 | n | |
| 11 | т | 26 | 30.8 | 0.018 | 0.1 | LOS A | 1 | 0.11 | 0.00 | 58.5 |
| 12 | R | 3 | 0.0 | 0.018 | 0.6 | LOS A | 1 | 0.11 | 0.65 | 46.2 |
| Approach | | 29 | 27.6 | 0.018 | 1.0 | LOS A | 1 | 0.11 | 0.07 | 57.2 |
| All Vehicle | 16 | 169 | 35.5 | 0.132 | 6.9 | Not Applicable | 6 | 0.11 | 0.44 | 51.2 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS # - Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SULUTIONS

Site: 2009 Base+Sen PM Narromine D:\Modelling\FJF\(09-April-Sidra\20100115-revise\MR89 and Tomingley West.aap Processed Jan 15, 2010 12:29:33AM

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| married and a second | | - M. De . Tot. | -07 -07 A 10 | 49.40 | 2220 10 | | 20. 22.00 | 200 200 400 | 47.49 154 |
| Birch Silver | -2.2536 | - P. OF . 173 | AND 187 A 28 | -26:34 | 2.000 | ~ | 201-2010 | 200, 240,040 | -05'06': 56 |
| | -0.2 | 28.38 96 | JUL 20100 III | 22.0 | 2.000 10 | - 16 | 20.20.0 | 27.400 | 22.14 |

Tomingley Gold Project Report No. 616/06



SIDRA INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2009 Base+Sen AM Narromine

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|--------|------------------------|------|-------------------------|------------------------|---------------------|--------------------------------|---|-------------------|-------------------------|
| Tomingley | West R | toad | | | | | | | | * 1 ******* 1 ** |
| 1 | L | 3 | 33.3 | 0.009 | 11.1 | LOS A | 0 | 0.16 | 0.61 | 47.5 |
| 3 | R | 3 | 33.3 | 0.009 | 11.5 | LOS A | 0 | 0.16 | 0.69 | 47.1 |
| Approach | | 6 | 33.3 | 0.009 | 11.3 | LOS A | 0 | 0.16 | 0.65 | 47.3 |
| | | | | | | | | | | |
| MR89 - Ea | st | | | | | | | | | |
| 4 | L | 3 | 0.0 | 0.018 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 26 | 30.8 | 0.018 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 29 | 27.6 | 0.018 | 0.8 | LOS A | | 0.00 | 0.07 | 58.6 |
| | | | | | | | 10.000 | 111100000000000000000000000000000000000 | | |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 26 | 30.8 | 0.094 | 0.1 | LOS A | 4 | 0.11 | 0.00 | 58.4 |
| 12 | R | 108 | 0.0 | 0.094 | 8.6 | LOS A | 4 | 0.11 | 0.65 | 48.2 |
| Approach | | 134 | 6.0 | 0.093 | 6.9 | LOS A | 4 | 0.11 | 0.53 | 49.9 |
| | | | | | | | | | | |
| All Vehicle | s | 169 | 10.7 | 0.094 | 6.0 | Not Applicable | 4 | 0.10 | 0.45 | 51.1 |

Symbols which may appear in this table:

Following Degree of Saturation # x=1.00 for Short Lane with resulting Excess Flow * x=1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRA SOLUTIONS

Site: 2009 Base+Sen AM Narromine D:\Modelling\FJF\09-April-Sidra\20100115-revise\MR89 and Tomingley West aap Processed Jan 15, 2010 12:29:33AM

| | | | | 20.00 | 2000 0 | -800- | 2.00 | 20.000 | |
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| | | -P. Nr. 100 | - Department | 450000 | | | | | |
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Tomingley Gold Project Report No. 616/06





Movement Summary

MR89 and Tomingley West Road

2009 Base+ Dev PM

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %HV | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|-----------|------------------------|---------------|--|------------------------|-----------------------|---|------------------|-------------------|-------------------------|
| Tomingley | / West R | load | | | | | | AUG 1,5101 | | |
| 1 | L. | 38 | 39.5 | 0.170 | 10.6 | LOS A | 9 | 0.21 | 0.51 | 47.9 |
| 3 | R | 74 | 39.7 | 0.169 | 11.1 | LOS A | 9 | 0.21 | 0.68 | 47.6 |
| Approach | | 111 | 39.6 | 0.169 | 10.9 | LOS A | 9 | 0.21 | 0.65 | 47.7 |
| MR89 - Ea | st | | | | | | 2000 | 13040446.35 | TO CONTRACT OF | |
| 4 | L | 3 | 0.0 | 0.018 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | т | 26 | 30.8 | 0.018 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 29 | 27.6 | 0.018 | 0.8 | LOS A | | 0.00 | 0.07 | 58.6 |
| e kane x | H.H. F. D | | (314,000,000) | $\Theta(\mathcal{H}_{\mathcal{F}}^{-1}, \mathcal{H}(\mathcal{F}))$ | | 60 (Pre1990) 1 6 7 10 | 000000000000000000000000000000000000000 | port/apace; 101) | 0.00 | roes, liste |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 26 | 30.8 | 0.018 | 0.1 | LOS A | 1 | 0.11 | 0.00 | 58.5 |
| 12 | R | 3 | 0.0 | 0.018 | 8.6 | LOS A | 1 | 0.11 | 0.65 | 48.2 |
| Approach | | 29 | 27.6 | 0.018 | 1.0 | LOS A | 1 | 0.11 | 0.07 | 57.2 |
| All Vehicle | 15 | 169 | 35.5 | 0.170 | 7.5 | Not Applicable | 9 | 0.16 | 0.45 | 50.8 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue # - Density for continuous movement

SIDRA SOLUTIONS

Site: 2009 Base+ Dev PM D:\Modelling\FJF\09-April-Sidra\20100115-revise\MR89 and Tomingley West.aap Processed Jan 15, 2010 12:29:32AM

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Tomingley Gold Project Report No. 616/06



SIDRA ---INTERSECTION

Movement Summary

MR89 and Tomingley West Road

2009 Base+Dev AM

Give-way

Vehicle Movements

| Mov 1D | Turn | Dem Flow (veh/h) | %н۷ | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|----------|------------------------|------|---------------------------|-------------------------|---------------------|--------------------------------|-----------------|-------------------|-------------------------|
| | | KOCKE PK IN | | 44 (000 (0) 44 (0.0) | A 401-MA 241-MA 1 1 1 M | | | 0.00 | * * * * | |
| Tomingle | y West R | | 1000 | | | 100000 | | | | 10000 |
| 1 | L | 3 | 33.3 | 0.009 | 10.9 | LOS A | 0 | 0.24 | 0.60 | 47.6 |
| 3 | R | 3 | 33.3 | 0.009 | 11.3 | LOS A | 0 | 0.24 | 0.66 | 47.3 |
| Approach | | 6 | 33.3 | 0.009 | 11.1 | LOS A | 0 | 0.24 | 0.63 | 47.5 |
| MR89 - E | est | | | | | | | | | |
| 4 | L | 74 | 0.0 | 0.056 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 25 | 30.8 | 0.056 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 100 | 8.0 | 0.056 | 6.1 | LOS A | | 0.00 | 0.49 | 51.4 |
| | | | | MICH. 10. 10. 11. 10. 10. | | | | | | |
| MR89 - W | est | | | | | | | | | |
| 11 | T | 26 | 30.8 | 0.045 | 0.4 | LOS A | 2 | 0.21 | 0.00 | 57.2 |
| 12 | R | 38 | 0.0 | 0.045 | 8.8 | LOS A | 2 | 0.21 | 0.64 | 47.8 |
| Approach | | 64 | 12.5 | 0.045 | 5.4 | LOS A | 2 | 0.21 | 0.38 | 51.3 |
| All Vehicle | es | 170 | 10.6 | 0.056 | 6.0 | Not Applicable | 2 | 0.09 | 0.46 | 51.2 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow * x = 1.00 due to minimum capacity

Following LOS
- Based on density for continuous movements

Following Queue
- Density for continuous movement

STORA SOLUTIONS

Site: 2009 Base+Dev AM
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| And Child Sales Annual | | | | | | | 27.202 | 20.000 | |
| i de la composition de la composition La composition de la | Accepted to | | -2009005 | -groundring- | ***** | | | | - ACTION (MODE) |
| | - ASSESSED - SECOND - | 20.0 | 2000 | -200 Marin 19- | 1200 | - 44 | 20 20 M | 20, 20,00 | 22.5 |
| ing and the second | - Anno 191 - Anno 191 - Anno 191 - Anno 191 - Anno 191 | 24.5 | 20.000 | 22.0 | 7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | - 44 | -07 -03 ex | 2012046 | 2000 100 |





Movement Summary

MR89 and Tomingley West Road

2009 Base

Give-way

Vehicle Movements

| Mov ID | Turn | Dem Flow (veh/h) | %ну | Deg of Satn (v/c) | Aver Delay (sec) | Level of Service | 95% Back of Queue (m) | Prop. Queued | Eff. Stop Rate | Aver Speed (km/h) |
|-------------|-----------------|------------------------|-------------------|-------------------------|------------------------|------------------------|--------------------------------|---|-------------------|-------------------------|
| Tomingley | West R | toad | nacional agraphic | ************ | | 14, 14, 14, 14, 17, 18 | A-14 7 NAVISO | 100000000000000000000000000000000000000 | Checken derivati | |
| 1 | L | 3 | 33.3 | 0.008 | 10.2 | LOS A | 0 | 0.16 | 0.61 | 48.3 |
| 3 | R | 3 | 33.3 | 0.008 | 10.7 | LOS A | 0 | 0.16 | 0.66 | 48.0 |
| Approach | | 6 | 33.3 | 0.008 | 10.5 | LOS A | 0 | 0.16 | 0.63 | 48.1 |
| MR89 - Ea | st | n regalije e | an messeu | | | | THE CONTRACTOR | 백 경 함께 | 50 Y57W3 -60 | 10000000 |
| 4 | L | 3 | 0.0 | 0.018 | 8.2 | LOS A | 0 | 0.00 | 0.67 | 49.0 |
| 5 | T | 26 | 30.8 | 0.018 | 0.0 | LOS A | 0 | 0.00 | 0.00 | 60.0 |
| Approach | | 29 | 27.6 | 0.018 | 0.8 | LOS A | anament series | 0.00 | 0.07 | 58.6 |
| MR89 - W | est | ence in a sometime | | October 14 contrates | | | 400.105.914.0 | | | |
| 11 | T | 26 | 30.8 | 0.018 | 0.1 | LOS A | 1 | 0.11 | 0.00 | 58.5 |
| 12 | R | 3 | 0.0 | 0.018 | 8.6 | LOS A | 1 | 0.11 | 0.65 | 48.2 |
| Approach | | 29 | 27.6 | 0.018 | 1.0 | LOS A | 1 | 0.11 | 0.07 | 57.2 |
| 00 00 m 0 | 100 100 100 100 | 1000 | 5 75.5% | | | | 3 3 5 5 7 | | | |
| All Vehicle | s | 64 | 28.1 | 0.018 | 1.8 | Applicable Not | 1 | 0.06 | 0.12 | 56.8 |

Symbols which may appear in this table:

Following Degree of Saturation # x = 1.00 for Short Lane with resulting Excess Flow # x = 1.00 due to minimum capacity

Following LOS

- Based on density for continuous movements

Following Queue
- Density for continuous movement

SIDRASQUUIDNS

Site: 2009 Base
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