

Berrigan Drive January 2018

Consultation Analysis

Table of Content

1. Executive Summary	3
2. Background.....	3
3. Methodology.....	3
4. Engagement Summary	5
5. Survey results	6

1. Executive Summary

2. Background

A service station is located on the south east side of the intersection, while the property on the opposite side has five medical practices. Berrigan Drive provides access to the Kwinana Freeway.

Although both Berrigan Drive and North Lake Road are managed by the City, the approval and installation of traffic signs and lines must be from Main Roads WA.

- 2015/16: The City upgraded the intersection using State Black Spot funding. The \$279,600 project included lighting upgrade, extending the left turn slip lanes from North Lake Road and Berrigan Drive, resurfacing, anti-skid overlays and improved the signage and line marking. There had been 98 reported crashes in the five year period prior, including 25 resulting in personal injury.
- 2016: The increasing number and severity of traffic accidents caused concern for Council and the local community. The most severe accidents occurred between vehicles making a right hand turn into the fuel station site from Berrigan Drive, and vehicles travelling west along Berrigan Drive in the left turn slip lane leading to North Lake Road.
- September 2016: The City sought approval from Main Roads WA to install Keep Clear markings on the road to delineate the driveway access into the service station to warn drivers approaching along the left turn slip lane of possible conflict with vehicles turning from Berrigan Drive. This proposal was rejected on the grounds that the driveway into the service station was a private driveway and such pavement marking is only approved as part of intersection line marking.
- December 2016: Council installed a temporary median strip to minimise accidents by preventing the right turn into the service station and right turn into the medical practices. Woolworths Group, which oversees the service station, and the medical practices protested strongly about the impact on their businesses.
- January 2017: A site meeting between City and Main Roads staff revisits the City's proposal for the Keep Clear marking. This was approved by Main Roads on the condition that Council provide a 12-month review of its effectiveness in addressing safety concerns.
- January 2018: City seeks feedback from community about whether to retain or change the current traffic management arrangements.

3. Methodology

A total of 88 letters were sent out in January 2018 to both property owners and tenants/residents inviting them to complete a survey on Comment on Cockburn. The survey was also open to the public

Consultation closed on 9 February 2018.

Highlights



3. Outcome

	Yes
Retain the keep clear arrangements	38
Change the arrangements	33

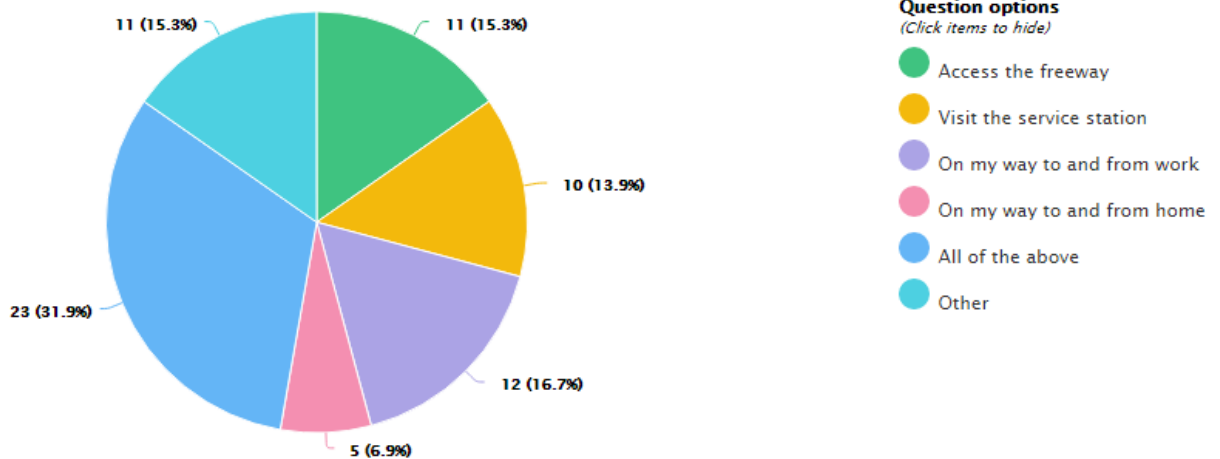
	Yes
The keep clear arrangements have made it safer	45
Change the arrangements	18

4. Engagement Summary

Engagement summary	
<p>We asked</p> <p>Should the City retain the Keep Clear markings on Berrigan Drive or change the traffic arrangements</p>	<p>You said:</p> <p>“Cheap fuel should only be sold between 7pm - 5am”</p> <p>“It is a significant safety issue”</p> <p>“It works most of the time”</p>
<p>Key points in favour of keeping the Keep Clear markings:</p> <p>Too many accidents and near misses at this location</p> <p>It has helped manage the traffic</p>	
<p>Key points in favour of different action</p> <ul style="list-style-type: none"> • Nobody adheres to current markings 	<p>You participated</p> <p>Mailout to 88 homes and businesses</p> <p>Promoted on Cockburn Chat and Comment on Cockburn</p> <p>Survey responses: 72 residents</p>
Next steps	
<p>We are now reviewing all community input.</p>	

5. Survey results

1. As a motorist, I use this intersection to:



2. Other:

- On my way home only.
- To access north lake shops
- Go to Spearwood and surrounding areas as well as the service station
- As I could only chose one it is also to access spud shed Jandakot
- Travel to Cockburn Central, Kardinya, Fremantle throughout the week and weekends.
- All except accessing medical center
- access the service station and freeway
- Drive my daughter to daycare
- some of the above
- I use it to go to work Monday-Friday and to go to Caltex every monday evening for the cheap petrol.
- mainly to access freeway and to and from work
- Access the freeway, visit the service station, on my way to and from work, on my way to and from home
- Not the medical center
- I would turn right at Berrigan to avoid turning right at into Elderberry too dangerous. Petrol discount days can be dangerous as cars sticking out and you can't turn at green arrow otherwise you would hold up flow of traffic
- Freeway and to drop at high school

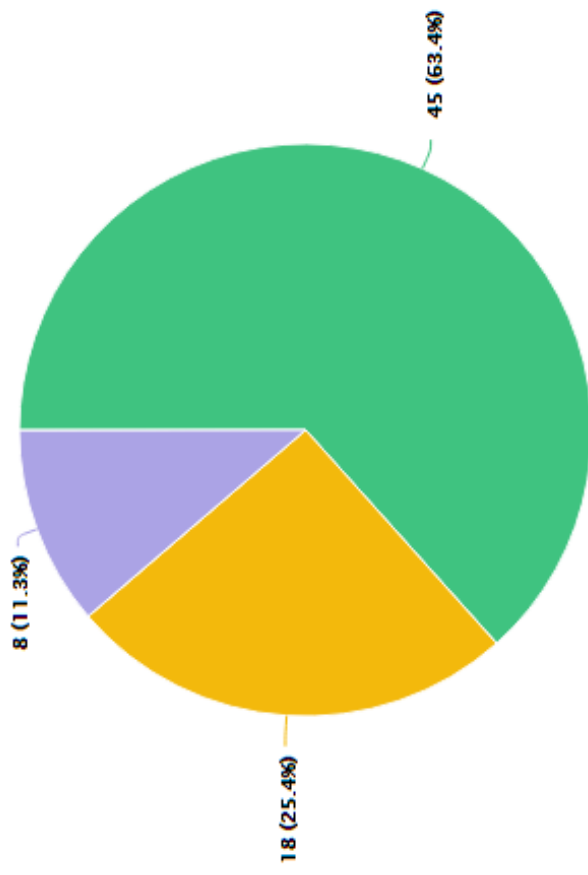
3. Do you believe the Keep Clear marking has been successful in reducing the number and severity of traffic accidents?

Question options
(Click items to hide)

Yes

No

No opinion



Comments

1	It's crazy when cheap petrol at the station
2	There is a significant safety issue with cars banking back on North Lake Road trying to enter the service station and from cars banking back into the intersection want to turn right from Berrigan across into the service station. The service station forecourt isn't designed appropriately to deal with the traffic ingress it attracts.
3	The keep clear marking has significantly improved the intersection, however, problems arise when the petrol station offers reduced petrol prices and cars are forced to queue into the road to access due to increased demand
4	It is ineffective as people ignore the road markings and do whatever they want to
5	I don't think motorists should be able to turn right into the petrol station as it is too busy and is a dangerous spot
6	On cheap petrol days the traffic is a lot more horrendous and dangerous in the area.
7	Very dangerous still with cars overhanging into north lake road from petrol station entry
8	Get rid of slip lane
9	Poor long term planning allowing Service station & Medical centre at that intersection. Also trucks using Berrigan to access Freeway & North lake Rd to gain access to Stock or Leach Hey. Where's Roe 8?
10	People turning into service station sometimes think that the keep clear means they have right of way.
11	I believe having the keep clear in place has definitely helped with managing traffic. Though I find a lot of people still turn right from the gas station through the keep clear area onto Berrigan drive even though it is left turn only
12	Making the turning lane longer is more dangerous as motorist come down the side quite quickly and people turning right into the service station across the traffic can't see the turning lane quickly even with the keep clear being abided by. I have seen alot of near misses at this part of the intersection.
13	It works most of the time except for the odd driver who ether doesn't know how to read or believes that such road marking do not apply to them but for most part works very well
14	Traffic backs up further along Berrigan Drive and blocks exits at Briggs St and

	<p>Semple Court. The number of accidents occurring now are when traffic pulls across into service station and traffic going in to turning lane (turners assume they have right if way due to keep clear sign)</p>
15	<p>I'm really happy with the changes traffic seems to flow better and I feel the keep clear road signing has changed the way motorists deal with the intersection</p>
16	<p>Only a physical barrier will stop people doing a right turn out of the petrol station as line markings are being ignored</p>
17	<p>Seen multiple accidents and near misses, the people hold up traffic past feeder streets onto Berrigan dr, ie Briggs st & Semple crt. Takes ages to get out of our area onto Berrigan. Takes multiple light changes before getting through thanks to the gap and backlog of traffic</p>
18	<p>The barriers put in last year should be permanent. A roundabout should be placed further along Berrigan towards the freeway so it is easier for traffic to exit left via nth lake and doing a loop past the oval etc.</p>
19	<p>I think this is the best option</p>
20	<p>The keep clear signs have definitely helped, but I still consistently see people who are not using it properly.</p>
21	<p>The KEEP CLEAR signage definitely works quite well, as it allows access and free flowing of traffic. Timing of traffic lights needs to be re-visited to coincide with traffic numbers. Since Roe 8 was quashed, there's A LOT more traffic on Berrigan Dve, especially large trucks....</p>
22	<p>There should be an island on Berrigan so no traffic can enter or leave the station to the northern side.</p>
23	<p>People still turn right out of petrol station. Needs to be signposted at station as well.</p>
24	<p>The markings overall are good and I believe have been effective in improving traffic movement and safety at this intersection; there still appears to be risk of collision when cars are turning right into the service station off North Lake Rd while at the same time cars are using the slip road to turn left (either onto North Lake Rd or to also enter the service station) - my observation is this mostly happens when traffic is built up at the lights and cars have had to wait in the left lane for the slip road - then they often speed up (often without indicating) with impatience, and the cars turning right are simultaneously using the 'keep clear' section with confidence (either to avoid holding up traffic behind them or to get through before the lights go green, or possibly thinking the markings guarantee the way is clear across all three lanes) - even although they don't have a good view of the slip road when traffic is built up at the lights. I personally would never take the right turn into the service station with built up traffic for this reason (it's</p>

	fine when visibility is clear). Motorists do mostly respect the markings though and I do think the markings have improved traffic flow.
25	It's much better but cars still turning right out of the caltex despite the left turn only arrow , this is causing a hazard
26	Berrigan drive(and osprey) has become terribly busy with rat-run traffic and heavy vehicles alike since the development of Yangebup (west) Beelieer(west), Coogee and bibra lake. Traffic would be reduced substantially if a dedicated east-west link through the lakes corridor was built. Perhaps extending Roe highway to Stock road would be a start.
27	The actions appear to have been a solution
28	As long as motorists acknowledge and follow the keep clear sign I believe it is effective
29	I don't like the keep clear treatment and would prefer stopping vehicles turning right into the service station and right turn into the medical practices. Woolworths Group, which oversees the service station, and the medical practices protested strongly about the impact on their businesses. Since the keep clear treatment was installed, I rarely drive that way and have been travelling via Armadale Road instead of Berrigan. I don't stop at the medical practices or service station. I would only stop at them if the entries were left in and left out.
30	As it currently is, is easy to use, haven't seen any accidents there for many months.
31	When the petrol station has cheap petrol the backlog of traffic that flows in to the left turning lane to North lake causes cars to swerve around the queue and means people don't leave the space clear when turning from berrigan in to the petrol station. Having the keep clear cause more traffic tailbacks as the lights often dont let many people through
32	The keep clear markings create greater confusion once the lights change green as it is not clear who has right of way. Also, when that intersection or the service station is busy (and that service station is generally busy) the traffic builds up from the people turning into the petrol station to the point where people waiting to turn onto Berrigan Dr to get into the service station are holding up those people turning onto Berrigan but not accessing the service station.
33	I haven't had any issues on Berrigan Drive since the markings were put in. The only issues I have are the crazy drivers inside the Caltex but that's not really related to this issue.

34	Turning right from North Lake onto Berrigan traffic backs up in the morning. Please review timings of the lights to allow more vehicles to turn right. Better access to the service station to reduce build up of traffic on a Monday evening
35	People are stopping in the keep clear zone. Intersection needs something but I don't what
36	My concern is when turning left onto north lake road and the traffic is banked back past the keep clear signage I crawl along in case someone is turning right into the petrol station and not looking out for people like myself who are still driving forward.
37	Cars in the slip lanes still speed along the lip lane.
38	this is the most popular service station in the surrounding area, ease of access and ease of egress are very important
39	Only left hand turns should be permitted to access the service station
40	The left turning lane may still be flowing and you get cars turning into the servo because the other two right turning lanes have stopped to keep clear I have had several near misses in the left turning lane as it is still flowing
41	The extension of the turning slip lane allows traffic to continue to flow & turn the corner, however it is dangerous for vehicles crossing into the service station, as the two lanes of traffic have stopped, but that lane continues to move & often you can't see a vehicle coming in that lane until you've started turning into the service station. The Keep Clear signage has definitely helped improve the safety allowing vehicles to turn easily into the service station.
42	Probably the best that can be done at this stage
43	It means that people can drive into the petrol station more easily without blocking traffic on the other side of the road which is great. However the petrol station often has very low fuel prices, especially on a Monday and traffic is crazy when this happens.
44	The temporary median strip installed on December 2016 should remain permanent. Even with the Keep Clear marking, when Berrigan Drive's traffic is backed up slightly the traffic turning left into North Lake Road from Berrigan Drive (cars on road adjacent to medical centre) would not be able to see the cars turning into the service station. There is a blind spot created by the cars backed up on Berrigan Drive.
45	The keep clear markings are working - they allow motorists access to and from the service station when the lights are red. However the fact that the left lane

	turn onto North Lake Road from Berrigan also contains the entrance to the service stations has meant many motorists exiting the service station assume that because the approaching drive has a left hand flicker on that they are going into the service station. This is not always the case - many are just turning left at North Lake Road.
46	no one adheres to the keep clear or no right turn coming out of petrol station.
47	The build up due to the cheap fuel days is a big traffic hazard that goes on for all day/ night as apposed to a few hours.
48	People should not be able to turn into that service station from Berrigan Drive when heading East, i.e. coming from the North off North Lake Road into Berrigan then trying to turn right. It causes unacceptable bottlenecks for people who just wish to access the Freeway , for us in Bibra Lake with still no future easy access to the Freeway using the proposed MAC Roe 8 junction as recently announced, we have to use Berrigan Drive to commence a 3 hour drive to our country workplace, the last thing we need at the start of a long journey is to be caught in a fuel frenzy bottleneck. But of course that means they would turn left into it from the South side of the intersection - also problematic for congestion at the lights. We believe that large servos should not be allowed to occupy such sites on major intersections unless the existing traffic infrastructure is already in place. Why should ratepayers & taxpayers fund Woolworths corporate profits when in appropriate sites are used. Better still sort out the fuel price rigging to stop the bargain days :(
49	Cars do keep clear from the markings- however when the lights turn green they move other users on the roads don't take notice and cut in from of oncoming traffic believing the should keep it clear at all times. those people trying to come from Briggs street onto Berrigan have a difficult time unless a car lets them in. not all accidents are reported as they are minor however it needs to be reviewed as the main problem is the service station and traffic congestion in that area.
50	This current solution allows people to enter to the medical centre from the freeway. It is the people who are still turning right from the service station on to Berrigan Drive which are the problem. It is impossible to have a 100% success rate with zero traffic accidents but this is a good compromise. They should put a council worker to take down the licence plate numbers of the people turning right and issue infringements under Local Government laws. This will be a deterrent. Any proposals to change the current configuration, will result in a loss of profit for the medical centre clients.
51	No one obeys the L turn arrow The traffic arrangements are fine except on cheap fuel Mondays
52	There are too many people using the right hand turns to get into the service station, majority of which are coming from north lake road which make a left hand turn to get onto berrigan, which backs up into the intersection during peak, which causes chaos for those making a right hand turn from north lake onto berrigan. These people can easily use the left hand entry that is just passed the

	intersection.
53	Some drivers still park across the Zone
54	it works but maybe something to tell drivers turning from North Lake into Berrigan Drive that they should watch for traffic stopping to turn into the service station
55	As a member of a community group i have a reasonable idea of the history of this intersection both accidents and from council /main roads point of view. Unfortunately no matter how it's done it's not going to be perfect or prevent accidents. As it stands at present is ok two problems i see are the extended left turn onto north lake rd thats just waiting for accidents to happen & the keep clear us making people drive up berrigan dr to around Briggs st and do u turns have seen a few people do this very dangerous also.
56	While the 2 main traffic lanes do slow and stop vehicles at the new Keep Clear markings, the addition of the extended turning lane means any vehicles using this turning lane continue travelling at speed through the Keep Clear section. Inattention here could result in a worse accident than previously. In addition, with the exit from the service station now moved back, vehicles leaving the service station often come to far forward in order to be able to see down Berrigan Drive while vehicles sometimes travel down the new turning lane at speed.
57	Block it off . That is safer
58	Seems to be working

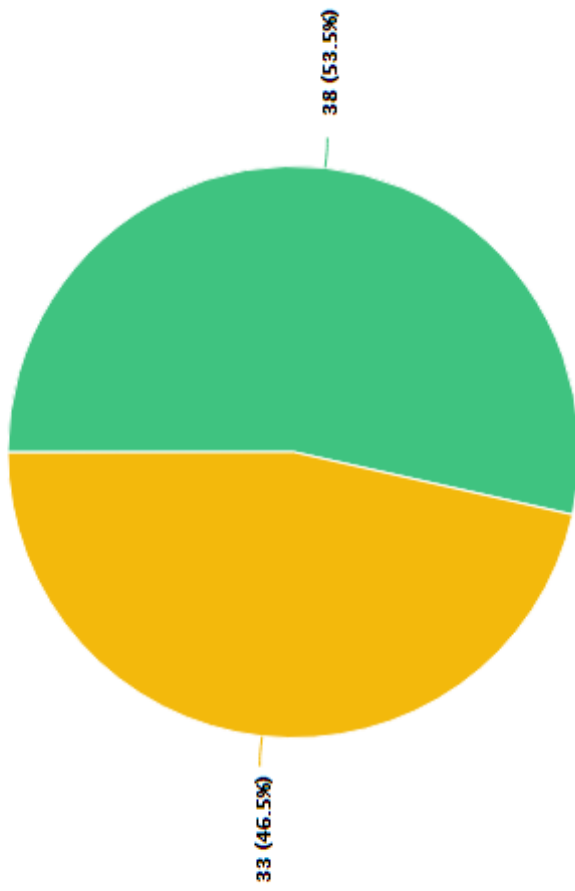
Q5

5. My suggestion is that the current arrangements should:



Question options
(Click items to hide)

- Remain the same with Keep Clear marking
- Change to another solution



6. My suggestion for another solution would be:

Comments	
1	No idea unless you move the road only gets crazy as above when they have cheap petrol
2	Entry only into petrol station from Berrigan Drive heading west (left turn into petrol station, no right turn from Berrigan). The exit for the petrol station should be one way only onto North Lake Road (left turn onto North Lake Road)
3	As per previous solution to stop people turning right into the petrol station
4	Not allow a right turn into the service station from Berrigan drive or install a turning lane
5	It is the only petrol station in the area which does this cheaper fuel prices and it creates chaos. Tell them they can only have the cheap option on a Sunday when less traffic on the road!
6	Main problem only happens when fuel is cheapest in Perth and everyone is trying to get into the servo
7	Bring in Roe 8 to reduce truck demand at Intersection. Better planning processes by Council when approving Business & how they will be accessed & how often.
8	Block turning right into service station off Berrigan drive. It was trialed and I think it was a good solution.
9	Build Roe 8 and listen to the majority of residents in Cockburn not the minority
10	People are still turning right into Berrigan Drive from the service station despite a sign on the road. A possible solution would be to put in some type of curbing to ensure people turned left and not right.
11	Make it more visually clear that drivers can only turn left at the exit of the gas station.
12	Close off the turn in from Berrigan where traffic have to cross the lanes. Precedent has been set at almost all the Service stations on Beeliar Drive, including BP, the coles one at end of Beeliar drive near Beeliar Village (and the new one being built)
13	Concrete median strip
14	Close off the turn into service station, as prior with temp bollards done in 2017 but permanent . As per main roads recommendations
15	Cheap fuel should only be sold between 7pm - 5am
16	Could the slip road to turn into the petrol station and left onto North Lake rd be lengthened?
17	There needs to be monitoring of this intersection to ensure proper use of the signs

18	The North Lake Road entrance to WW Service Station is a big problem. On cheap fuel days, it is so busy, that vehicles enter from NL Road and spill onto NL Road, closing down 1 lane. WW need to close that entrance and have entrance only from Berrigan Dve.
19	Stop cars turning right out of the caltex to make it safer for cars entering the caltex from either direction
20	Reduce the amount of east-west traffic, in particularly heavy haulage, by rerouting them to more suitable infrastructure (build a highway!)
21	Left in and left out only. No right hand turns allowed into the service station, medial practice or houses near the traffic lights at North Lake Road.
22	Put the bollards back
23	The medium strip preventing the right turn into the service station is the best. Perhaps advertise the proposed change for a while before doing it and signpost that the access has changed to alleviate the landowners concerns.
24	Modify the traffic lights to allow drivers heading NW along Northlake Rd to do a u-turn at the lights so that they can enter the Caltex from the Northlake Rd entrance instead. A similar solution could work for the medical area with drivers on Berrigan.
25	More signage and bright writing on the road! or even rumble strips
26	Keeping the keep clear markings but having a separate left turn into the petrol station
27	Additional entry to petrol station from north lake road in both directions.
28	The temporary median strip installed on December 2016 should remain permanent.
29	Put no standing signs at the intersection and fine people who hold up traffic to wait to get into the servo, Put left arrow lights in stead of give way signs
30	Only left hand turns should be permitted into the service station
31	Make the intersection wider or put in place a roundabout.
32	Keep the keep clear markings but have two lanes for turning left. The left one into the service station and the right one for traffic turning left onto North Lake Road.
33	Exit only on to north lake road and entry only through berrigan
34	Maybe get rid of the slip lane outside the petrol station.
35	Due to the small space, I don't see much of a solution. The Keep Clear markings are good and helpful but it's a tight intersection and a busy one at that.

36	Tell the company to relocate their fuel station!
37	There is no ideal solution i don't think. To prevent accidents hard barrier between servi n medical centre but i know this creates other problems 1 i already mentioned
38	More signage on road and for vehicles turning right into the sevo a sign that tells drivers to GIVE WAY to ONCOMMING TRAFFIC.
39	Don't have a sudden drop in fuel price. The road markings are fine.
40	Allowing only left-hand turns into the service station
41	Good-luck on who ever is going to try and make everyone happy and safe. North Lake and Berrigan traffic has become unbelievably congested in recent years and it is important to be fixed before more development in the area progresses.
42	The addition of a stop sign/stop line at the service station exit would be a lot safer... Another issue which I'm not sure council has a say on is the traffic chaos at this intersection every Monday due to "low" fuel prices.
43	Well, linking Farrington with the Roe 8 eastbound would help a lot as many people onc myself wouldnt need to come to Berrigan at all.
44	Block it off . Make it one way in one way our for servo. In on berrigan out on north lake

7. Please describe any traffic accidents you have seen on Berrigan Drive at this location since February 2017.

Comments	
1	Mainly people going up the bum of cars on northlake road while they are trying to get into petrol station the petrol station needs to go or the road moved
2	Car turning right from Berrigan into the petrol station, across the keep clear section was hit by another car exiting the petrol Station that was turning right onto Berrigan (even though the marking indicate this is a no right turn exit. I have seen this happen on at least 3 occassions
3	I have been hit in my car from another car turning right into the station. I have also seen a few there and a lot of near misses
4	The problem is not the Keep Clear marking on Berrigan Drive. It is when the petrol station drop the prices and the queue banks up along Berrigan and North Lake. I think your real priority should be dual lanes down Jandakot Road which is very dangerous. I have had cars nearly come head on driving at night. It's a

	death trap and I am afraid that it may take my life one night on the way home from work!
5	Seen two. The slip lane problem turn into servo and North Lake rd
6	Need Roe 8 too many trucks going through there.
7	I haven't seen any accidents since February but I have seen a few close calls with vehicles exiting the gas station turning right. It is also common for vehicles leaving the station to sit in the keep clear area blocking off traffic going through the lights as they wait to turn onto Berrigan heading towards the freeway.
8	Side swipes between cars waiting to enter petrol station from nth lake road and cars travelling along north lake road. Plenty of near misses!
9	Approx 4 /5 accidents involving cars, no tows needed, traffic crossing into service station failed to give way to traffic coming down to the lights and those who are turning left onto Northlake rd. Multiple near misses and lots of verbal/road rage altercations due to the near misses.
10	I don't count but seen lots of minor fender benders, and road rage people screaming at intersection when getting cut off and lights are green.
11	I have not witnessed any happen, but I have driven past two minor crashes between people waiting to use the petrol station and people wanting to drive past
12	Assisted a lady injured in an accident , she was hit by a car coming up the slip road
13	I've seen cars t-boned at semple, rear-ended between semple and the freeway north on-ramp (due to queuing), t-boned at the service station (entering and exiting the service station).
14	I have not witnessed any accidents but I have seen cars drive through the keep clear area without slowing down enough, and others stopping and turning right there and holding up traffic at the lights, narrowly missing collision as cars behind were still travelling around the corner and did not expect to have to stop so close to the traffic lights. I decided to avoid the intersection and drive a different way.
15	Near misses when cars pull out from left lane when queing behind petrol station traffic. Cars nearly being hit when turning in from berrigan drive to petrol station when traffic is stationary in two right turning lanes but a car heads down the left turning lane
16	I have had people cut me off turning right into the service station as I try to proceed into the intersection when the light has turned green. I have had cars stop suddenly in front of me to turn right at the service station.
17	One on North Lake Road heading east just past Berrigan Drive with 2 cars trying to turn left into the service station. Third car hit them and then traffic banked up on North Lake Road including the traffic lights intersection.
18	I have seen plenty of near misses. Because of people who aren't looking for

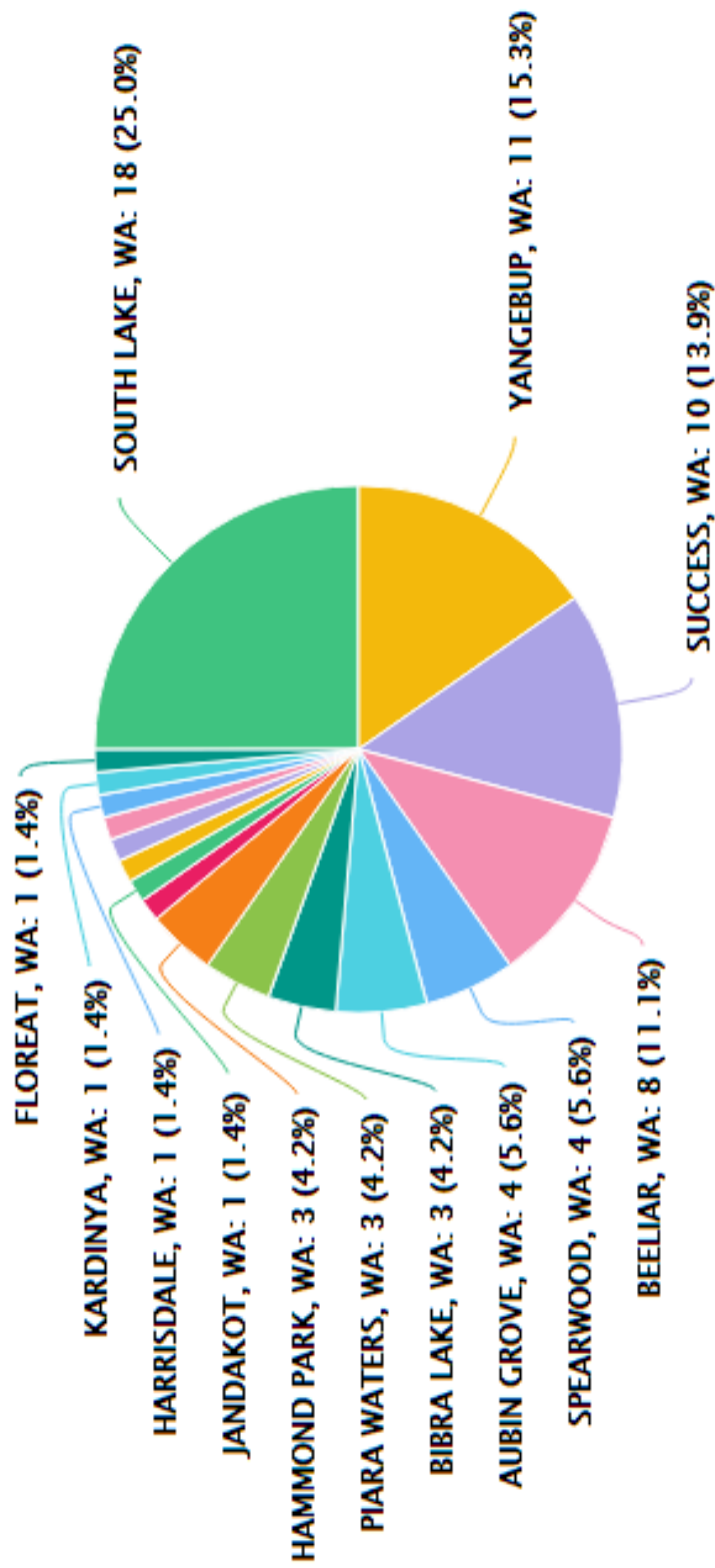
	<p>others turning left onto north Lake Road they see cars stopped and just drive in. Cars becoming aggressive and traffic banked up down berrigan because the petrol station has cheap petrol. As well as cars turning left into the petrol station from north lake road and completely blocking the left lane to the turning corner. As well as traffic heading south towards gateways and cars in the left racing to get into the right to avoid the traffic entering the petrol station. And when turning right into berrigan from north lake you have cars blocking the right lane to get into petrol station and again cars who are turning left into berrigan and then want to immediately turn right into the petrol station then block the left lane so nobody can move forward. Cheap petrol days are a nightmare and the only time I've seen near misses.</p>
19	I've not witnessed any accidents, but several close calls of vehicles turning into the service station almost being hit by vehicles using the slip turning lane
20	Numerous accidents where the cars turning into service station from Berrigan Drive (cars on road adjacent to medical centre) collides with the car turning left onto North Lake Road from Berrigan Drive.
21	Several times I have had to slam on the breaks as I am in the left turning lane and oncoming traffic has turned in front of me as the other lanes are stopped
22	Have seen a couple of accidents where the above has happened. Also many near misses. I go very slow in the area now after one near miss myself. However motorists leaving the service station are not always used to the fact that not all left hand signals mean the driver is going into the service station.
23	People running up the back of each other due to motorists stopping on Berrigan drive to go into the fuel station that is far too packed.
24	Haven't personally seen any have seen a few near misses. It's just a bad intersection like 100's of other around town.
25	Haven't actually seen any but any that do occur are very minor due to increased traffic on cheap fuel days.
26	I have not seen any only heard about them from either people who have been in them or spoken about there nearer misses and I have seen about 2 nearer misses with trucks.
27	Have seen two and it was before the keep clear and was rear end accidents.
28	Lots, over the time. Some minor, other major

jp Form Question:

Suburb



Choose a signup form question to see details



City of Cockburn

9 Coleville Crescent, Spearwood WA 6193

PO Box 1215, Bibra Lake DC Western Australia 6965

T: 08 9411 3888 F: 08 9411 3333

E: comment@cockburn.wa.gov.au

cockburn.gov.wa.au

