

## Engineering Advice and Services (Pty) Ltd

Associated with ULWAZI

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1 June 2015

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For attention: Mr D Henning

NEMAI Consulting P O Box 1673 SUNNINGHILL 2157

Dear Sir

## PROPOSED DEVELOPMENT OF FOXWOOD DAM: SPECIALIST OPINION ON NEED FOR RELOCATION OF MR00639

#### 1. BACKGROUND

The purpose of this opinion is to determine the need to relocate a portion of MR00639 due to the proposed development of Foxwood Dam northwest of Adelaide. The proposed dam is anticipated to inundate a portion of MR00639 approximately 1km in length from the junction with R344 southwards.

MR00639 is a provincial gravel road approximately 6.3km in length linking TR05701 (R63) in the south with MR00638 (R344) in the north. The road permits motorists who wish to travel between the R63 and R344 to bypass Adelaide, with a saving in distance travelled of approximately 8.4 km per direction.

The condition of the road was recently assessed as part of the Rural Road Asset Maintenance programme currently being conducted by the Engineering Advice and Services on behalf of the Eastern Cape District Municipalities and the Eastern Cape Department of Roads and Public Works and is in a fair condition.

This opinion will address current traffic patterns on MR00639, and provide an assessment of the need to relocate MR00639.

The extent of the proposed dam and the portion MR00639 expected to be inundated by the dam are indicated on the Locality Plan **Figure 1** attached as **Annexure A**.

### 2. TRAFFIC VOLUMES

Traffic volumes were conducted over 12-hour periods between 06:00 and 18:00 on Monday 11 May 2014 at six junctions in the vicinity of the proposed dam including the R344 and R63 junctions with MR00639.

The locations of the traffic survey stations are indicated on Figure 1. Figure 2 attached as Annexure B summarises the traffic volumes surveyed at the count stations on MR00639.

A total of 21 vehicles, 11 approaching and 10 leaving the R344 junction were surveyed at station 1355.

A total of 4010 vehicles, 18 approaching and 22 leaving the R63 junction were surveyed at station 1354.

The detailed survey information at each survey station is recorded on the output sheets attached as **Annexure C**.

#### 3. ORIGIN-DESTINATION SURVEYS

Origins and destinations of vehicles entering and exiting MR00639 were determined by recording vehicle registration number plates at both the R63 and R344 junctions. The results of these surveys are attached as **Annexure D**.

Of the 11 vehicles recorded exiting MR00639 at the R344 junction, 10 of these vehicles were recorded entering MR00639 at the R63 junction.

Of the 10 vehicles recorded entering MR00639 at the R344 junction, 8 of these vehicles were recorded exiting MR00639 at the R63 junction.

Thus 18 of 21 vehicles entering and exiting MR00639 at the R344 travelled the entire length of MR00639 to and from the R63.

Of further interest is that of the remaining 12 vehicles recorded entering from the R63, 10 exited back onto the R63. It is noted that the average time that vehicles spent travelling along MR00639 is in the order of 6 minutes. Based on the distance that vehicles would have had to travel through Adelaide, it is assumed that a time saving in the order of 10 minutes can be achieved.

#### 4. CONCLUSIONS

The following conclusions can be drawn from the study:

- Based on the 12-hour surveys, less than 50 vehicles per day use MR00639;
- The surveyed traffic volumes indicates that 40 vehicles entered and exited MR00639 from and to the R63:
- The surveyed traffic volumes indicates that of 21 vehicles entered and exited MR00639 from and to the R344;
- Of the 21 vehicles recorded at the R344 junction 18 vehicles (85%) travelled the entire length of MR00639 to and from the R63;
- The observations indicate the use of MR00639 as a short-cut as opposed to travelling through Adelaide, with a saving in traveling distance of 8.3km per direction;
- The survey results further indicate that 3 vehicles made the trip in both directions (1 of which travelled south to north twice), 6 in one direction from south to north and 5 in one direction from north to south a total of only 14 different vehicles travelling (19 one-way trips);
- Closing MR00639 will result in an additional 160km travel per day for the affected vehicles.

Assuming vehicle consumption of 9 litres / 100km and a fuel price of R12/km, the additional cost for all affected vehicles per year over 300 days amounts to R51 094 per annum. Over 20 years assuming escalation in the fuel price of 5% per annum, the total additional cost amounts to R2 711 352.

#### 5. OPINION

When considering that only 14 vehicles per day travel along the full length of MR00639 over 19 trips and that these trips represent only 15% of the surveyed two-way traffic volume on the R344 just north of MR00639 - 115 vehicles, it can be concluded that the additional cost to these vehicles over a 20 year period does not justify the cost to realign MR00639.

### 6. REFERENCES

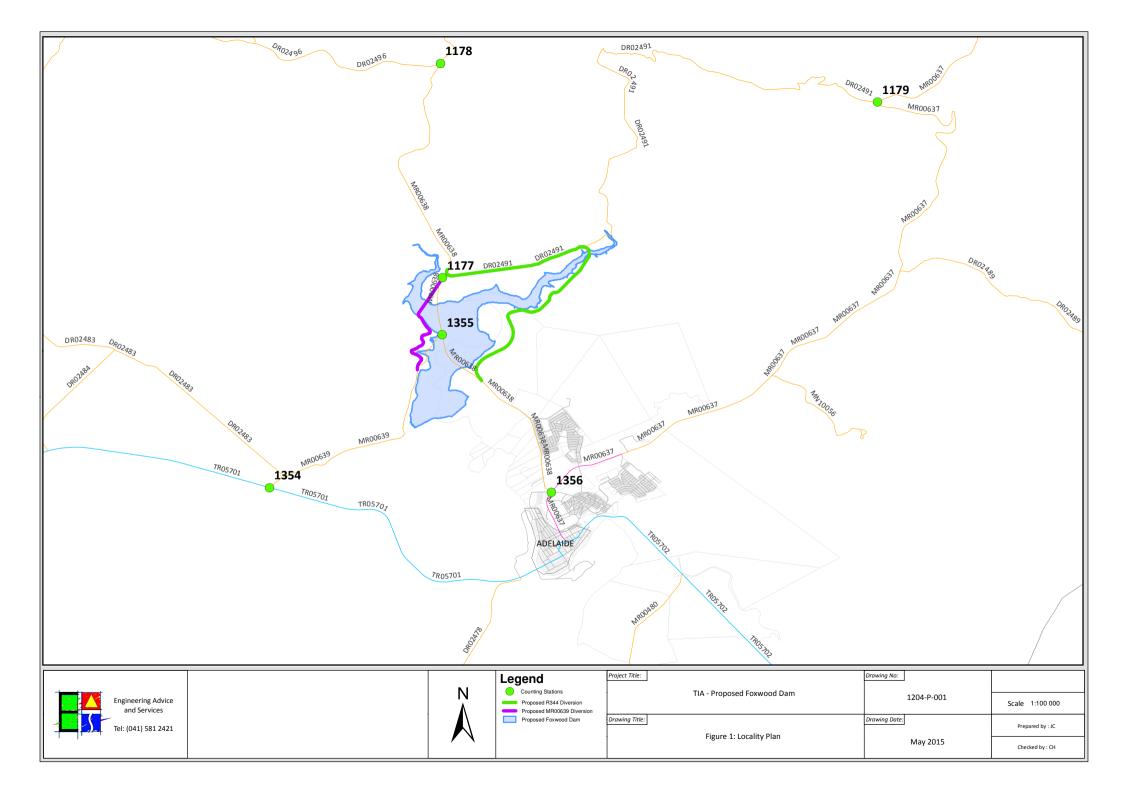
1. Joubert, Sampson, et al, TMH 16 Volume 1- South African Traffic Impact and Site Assessment Manual, COTO, August 2012.

Yours faithfully

Zary Hastie Pr Tech Eng (200070122)

For Engineering Advice & Services (Pty) Ltd

# ANNEXURE A LOCALITY PLAN



# ANNEXURE B TRAFFIC VOLUME

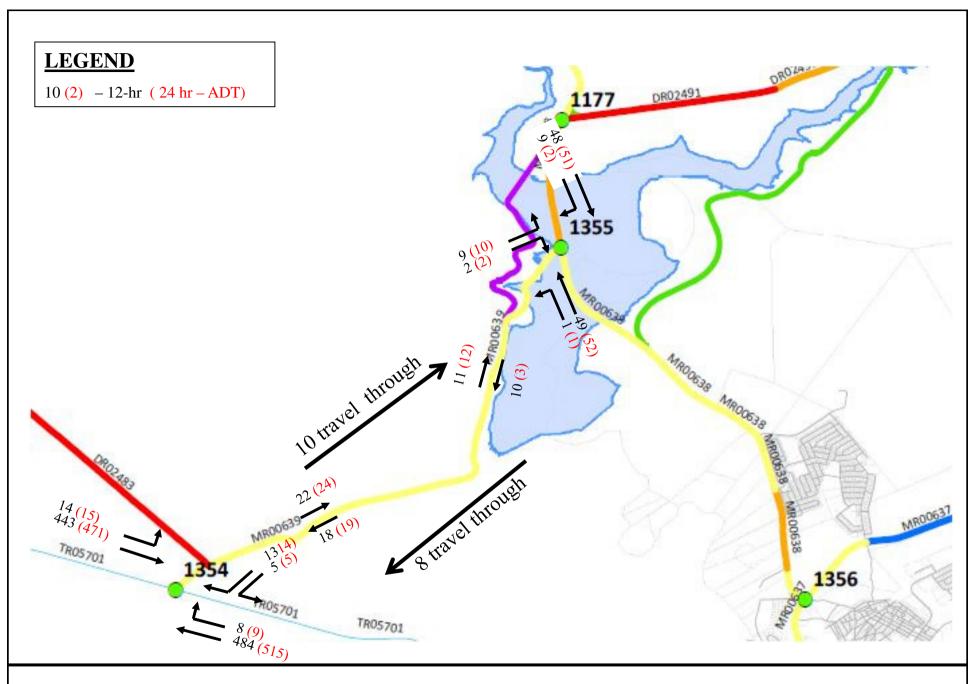


Figure 2: Traffic Volumes

# ANNEXURE C TRAFFIC SURVEY SHEETS

### RRAMS INTERSECTION TRAFFIC COUNT OUTPUT

Station ID 1354

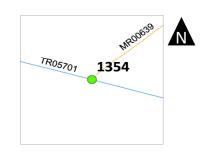
Intersection MR00639 / TR05701

Local Municipality Amahlati

District Municipality Amathole

**Date:** 2015-05-11

Enumerator: Nicholas Masiphula Co-ord: X 27.27867 Y -32.61530



Enumerator:	Nicholas Masiph				ıla	<b>Co-ord</b> : X 27.27867						Y -32.61530					
							Volum	es per m	ovemen	t							
Direction	NB					W	WB SB				EB				TOTAL		
Link ID		1059	9848		1060173			No Road			1059844						
Road Name		MR0		ı		1	5701	ı		<u> </u>	ı	I	TR05701			1	
Movement	Left	Through		Total	Left	Through	Right	Total	Left	Through		Total	Left	Through		Total	
M'ment ID	1	2	3		4	5	6		7	8	9		10	11	12		
12-hr	_		42		42	270		204						1412		424	020
12-hr car	5	0	12	17	13	378	0	391	0	0	0	0	0	413	8	421	829
12-hr taxi	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	22	44
12-hr bus	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
12-hr HV	0	0	1	1	1	41	0	42	0	0	0	0	0	47	0	47	90
12-hr all veh	5	0	13	18	14	443	0	457	0	0	0	0	0	484	8	492	967
AM peak hr																	
AM peak car	0	0	5	5	4	30	0	34	0	0	0	0	0	47	0	47	86
AM peak taxi	0	0	0	0	0	6	0	6	0	0	0	0	0	1	0	1	7
AM peak bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM peak HV	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
AM peak all veh	0	0	5	5	4	36	0	40	0	0	0	0	0	51	0	51	96
OFF peak hr																	
OFF peak car	0	0	0	0	2	38	0	40	0	0	0	0	0	37	0	37	77
OFF peak HV	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
OFF peak bus	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
OFF peak taxi	0	0	0	0	0	5	0	5	0	0	0	0	0	6	0	6	11
OFF peak all veh	0	0	0	0	2	46	0	48	0	0	0	0	0	44	0	44	92
PM peak hr																	
PM peak car	0	0	0	0	1	39	0	40	0	0	0	0	0	45	2	47	87
PM peak HV	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	6
PM peak bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM peak taxi	0	0	0	0	0	4	0	4	0	0	0	0	0	10	0	10	14
PM peak all veh	0	0	0	0	1	46	0	47	0	0	0	0	0	58	2	60	107
ADT (24-hr)																	
24-hr car	5	0	13	18	14	402	0	416	0	0	0	0	0	439	9	448	882
24-hr taxi	0	0	0	0	0	23	0	23	0	0	0	0	0	23	0	23	47
24-hr bus	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
24-hr HV	0	0	1	18	1	44	0	441	0	0	0	0	0	50	0	473	933
24-hr all veh	5	0	14	19	15	471	0	486	0	0	0	0	0	515	9	523	1029

Volumes per approach link (2-way)								
NB WB SB EB								
Link ID	1059848	1060173	No Road	1059844				
ADT	43	1015	0	1000				
% HV	5%	10%	-	10%				

### RRAMS INTERSECTION TRAFFIC COUNT OUTPUT

Station ID 1355

Intersection MR00639 / MR00638

Local Municipality Amahlati

District Municipality Amathole

**Date:** 2015-05-11

Enumerator: Nicholas Masiphula Co-ord: X 27.27867 Y -32.61530



Enumerator:			IVICIIOIAS	Masiphi	aid		ora :			27.2786	,		'	-32.615	30		
							Volum	es per m	ovemen	t							
Direction	NB				WB			SB			EB				TOTAL		
Link ID	1060193				106	0352	No Road					1060354					
Road Name		MRO	0639			MRC	0638	T		ı		ı		MRC	00638	1	
Movement	Left	Through		Total	Left	Through		Total	Left	Through		Total	Left	Through		Total	
M'ment ID	1	2	3		4	5	6		7	8	9		10	11	12	<u> </u>	
12-hr		T	T	1		T	1	T	1	T		T		T			ı
12-hr car	7	0	2	9	1	46	0	47	0	0	0	0	0	46	7	53	109
12-hr taxi	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
12-hr bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-hr HV	2	0	0	2	0	2	0	2	0	0	0	0	0	2	2	4	8
12-hr all veh	9	0	2	11	1	49	0	50	0	0	0	0	0	48	9	57	118
AM peak hr																	
AM peak car	1	0	2	3	1	16	0	17	0	0	0	0	0	4	4	8	28
AM peak taxi	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
AM peak bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM peak HV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM peak all veh	1	0	2	3	1	17	0	18	0	0	0	0	0	4	4	8	29
OFF peak hr																	
OFF peak car	0	0	0	0	0	3	0	3	0	0	0	0	0	5	1	6	9
OFF peak HV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OFF peak bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OFF peak taxi	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	2	3
OFF peak all veh	0	0	0	0	0	4	0	4	0	0	0	0	0	6	2	8	12
PM peak hr																	
PM peak car	2	0	0	2	0	5	0	5	0	0	0	0	0	8	0	8	15
PM peak HV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM peak bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM peak taxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM peak all veh	2	0	0	2	0	5	0	5	0	0	0	0	0	8	0	8	15
ADT (24-hr)																	
24-hr car	7	0	2	10	1	49	0	50	0	0	0	0	0	49	7	56	116
24-hr taxi	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
24-hr bus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-hr HV	2	0	0	10	0	2	0	51	0	0	0	0	0	2	2	56	117
24-hr all veh	10	0	2	12	1	52	0	53	0	0	0	0	0	51	10	61	126

Volumes per approach link (2-way)								
	NB	WB	SB	EB				
Link ID	1060193	1060352	No Road	1060354				
ADT	22	106	0	122				
% HV	19%	4%	-	7%				

# ANNEXURE D NUMBER PLATE SURVEY SHEETS

Number Plate Surveys In/Out STN 1355 MR00639 / R344

Time: 06:00 - 18:00

Name: Khungy

	In		In		Out		Out
Time	Number Plate	Time	Number Plate	Time	Number Plate	Time	Number Plate
07:19	FPT 768 EC			07:46	HDY 962 EC		
07:39	FTV 798 EC			07:52	BLG 882 EC		
07:39	CZG 521 EC			08:11	HBB 082 EC		
07:43	BMH 421 EC			08:24	CZG 521 EC		
07:51	DBR 137 EC			08:58	FMD 739 EC		
09:02	FMJ 025 EC			10:12	HKX 265 EC		
11:18	HJJ 969 EC			14:25	CZG 521 EC		
11:49	HKX 265 EC			16:03	DKB 179 EC		
15:05	FMD 739 EC			16:44	HFH 589 EC		
15:55	HFH 589 EC			16:57	CVD 236 EC		
				17:45	CXN 187 EC		

Number Plate Surveys In/Out STN 1354 MR00639 / R63

Time: 06:00 - 18:00

Name: Andie

Time	
07:39         FVN 962 EC         07:45         CZG 521 EC           07:40         HDY 962 EC         07:50         BMH 421 EC           07:46         BLG 882 EC         08:01         DBR 137 EC           08:03         HBB 082 EC         08:09         FVN 962 EC           08:18         CZG 521 EC         08:19         HHG 896 EC           08:32         DGN 047 EC         08:38         CA 290 938           08:49         HHG 896 EC         09:09         FMJ 025 EC           08:51         FMD 739 EC         09:43         DGN 047 EC           09:21         FVN 962 EC         10:09         CXZ 452 EC           10:04         HKX 265 EC         10:12         HHN 138 EC           10:48         HHN 138 EC         11:25         HJJ 969 EC           12:14         CA 290 938         11:55         HKX 265 EC           12:30         FZF 763 EC         12:18         HCV 124 EC           13:20         HCV 124 EC         15:09         CLY 045 EC           14:19         CZG 521 EC         15:09         CLY 045 EC           15:57         DKB 179 EC         16:30         FVN 962 EC           16:51         CVD 236 EC         16:00         FVN 962 EC <th>late</th>	late
07:40         HDY 982 EC         07:50         BMH 421 EC           07:46         BLG 882 EC         08:01         DBR 137 EC           08:03         HBB 082 EC         08:09         FVN 962 EC           08:18         CZG 521 EC         08:19         HHG 896 EC           08:32         DGN 047 EC         08:38         CA 290 938           08:49         HHG 896 EC         09:09         FMJ 025 EC           08:51         FMD 739 EC         09:43         DGN 047 EC           09:21         FVN 962 EC         10:09         CXZ 452 EC           10:04         HKX 265 EC         10:12         HHN 138 EC           10:48         HHN 138 EC         11:25         HJJ 969 EC           12:14         CA 290 938         11:55         HKX 265 EC           12:20         FZF 763 EC         12:18         HCV 124 EC           13:20         HCV 124 EC         12:23         FVN 962 EC           14:19         FVN 962 EC         15:09         CLY 045 EC           15:41         HHF 886 EC         16:30         FVN 962 EC           16:57         DKB 179 EC         16:30         FVN 962 EC	
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08:03         HBB 082 EC         08:09         FVN 962 EC           08:18         CZG 521 EC         08:19         HHG 896 EC           08:32         DGN 047 EC         08:38         CA 290 938           08:49         HHG 896 EC         09:09         FMJ 025 EC           09:51         FMD 739 EC         09:43         DGN 047 EC           09:21         FVN 962 EC         10:09         CXZ 452 EC           10:04         HKX 265 EC         10:12         HHN 138 EC           10:48         HHN 138 EC         11:25         HJJ 969 EC           12:14         CA 290 938         11:55         HKX 265 EC           12:30         FZF 763 EC         12:18         HCV 124 EC           13:20         HCV 124 EC         12:23         FVN 962 EC           14:19         FVN 962 EC         15:09         CLY 045 EC           15:41         HHF 886 EC         16:30         FVN 962 EC           16:51         CVD 236 EC         16:51         CVD 236 EC	
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08:49     HHG 896 EC     09:09     FMJ 025 EC       08:51     FMD 739 EC     09:43     DGN 047 EC       09:21     FVN 962 EC     10:09     CXZ 452 EC       10:04     HKX 265 EC     10:12     HHN 138 EC       10:48     HHN 138 EC     11:25     HJJ 969 EC       12:14     CA 290 938     11:55     HKX 265 EC       12:30     FZF 763 EC     12:18     HCV 124 EC       13:20     HCV 124 EC     12:23     FVN 962 EC       14:19     FVN 962 EC     15:09     CLY 045 EC       14:19     CZG 521 EC     15:11     FMD 739 EC       15:41     HHF 886 EC     16:30     FVN 962 EC       15:57     DKB 179 EC     16:09     CLY 045 EC       16:51     CVD 236 EC     CVD 236 EC	
08:51     FMD 739 EC     09:43     DGN 047 EC       09:21     FVN 962 EC     10:09     CXZ 452 EC       10:04     HKX 265 EC     10:12     HHN 138 EC       10:48     HHN 138 EC     11:25     HJJ 969 EC       12:14     CA 290 938     11:55     HKX 265 EC       12:30     FZF 763 EC     12:18     HCV 124 EC       13:20     HCV 124 EC     12:23     FVN 962 EC       14:19     FVN 962 EC     15:09     CLY 045 EC       14:19     CZG 521 EC     15:11     FMD 739 EC       15:41     HHF 886 EC     16:30     FVN 962 EC       15:57     DKB 179 EC     16:30     FVN 962 EC       16:51     CVD 236 EC     16:51	
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10:48       HHN 138 EC       11:25       HJJ 969 EC         12:14       CA 290 938       11:55       HKX 265 EC         12:30       FZF 763 EC       12:18       HCV 124 EC         13:20       HCV 124 EC       12:23       FVN 962 EC         14:19       FVN 962 EC       15:09       CLY 045 EC         14:19       CZG 521 EC       15:11       FMD 739 EC         15:41       HHF 886 EC       16:30       FVN 962 EC         15:57       DKB 179 EC       16:09       CLY 045 EC         16:09       CLY 045 EC       CVD 236 EC	
12:14       CA 290 938       11:55       HKX 265 EC         12:30       FZF 763 EC       12:18       HCV 124 EC         13:20       HCV 124 EC       12:23       FVN 962 EC         14:19       FVN 962 EC       15:09       CLY 045 EC         14:19       CZG 521 EC       15:11       FMD 739 EC         15:41       HHF 886 EC       16:30       FVN 962 EC         15:57       DKB 179 EC       16:09       CLY 045 EC         16:51       CVD 236 EC       CVD 236 EC	
12:30       FZF 763 EC       12:18       HCV 124 EC         13:20       HCV 124 EC       12:23       FVN 962 EC         14:19       FVN 962 EC       15:09       CLY 045 EC         14:19       CZG 521 EC       15:11       FMD 739 EC         15:41       HHF 886 EC       16:30       FVN 962 EC         15:57       DKB 179 EC       16:09       CLY 045 EC         16:51       CVD 236 EC       CVD 236 EC	
13:20     HCV 124 EC     12:23     FVN 962 EC       14:19     FVN 962 EC     15:09     CLY 045 EC       14:19     CZG 521 EC     15:11     FMD 739 EC       15:41     HHF 886 EC     16:30     FVN 962 EC       15:57     DKB 179 EC     CLY 045 EC       16:09     CLY 045 EC     CVD 236 EC	
14:19     FVN 962 EC     15:09     CLY 045 EC       14:19     CZG 521 EC     15:11     FMD 739 EC       15:41     HHF 886 EC     16:30     FVN 962 EC       15:57     DKB 179 EC     16:09     CLY 045 EC       16:51     CVD 236 EC     CVD 236 EC	
14:19     CZG 521 EC     15:11     FMD 739 EC       15:41     HHF 886 EC     16:30     FVN 962 EC       15:57     DKB 179 EC     16:09     CLY 045 EC       16:51     CVD 236 EC     CVD 236 EC	
15:41 HHF 886 EC 16:30 FVN 962 EC 15:57 DKB 179 EC 16:09 CLY 045 EC 16:51 CVD 236 EC	
15:57 DKB 179 EC  16:09 CLY 045 EC  16:51 CVD 236 EC	
16:09 CLY 045 EC 16:51 CVD 236 EC	
16:51 CVD 236 EC	
17:39 CXN 187 EC	