Y2-105 Eagle Point 230kV

Generation Interconnection

Network Impacts

The Queue Project #Y2-105 was studied as a 50.0MW (Capacity 50.0MW) injection at the Eagle Point 230 kV substation in the PSEG area. Project #Y2-105 was evaluated for compliance with reliability criteria for summer peak conditions in 2016. Potential network impacts were as follows:

Generator Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

No problems were identified.

Light Load Analysis

(Applicable to wind, coal, nuclear, and pumped storage projects).

Light Load Studies will be conducted during later study phases.

Multiple Facility Contingency

(Double Circuit Tower Line contingencies only for the full energy output. Stuck breaker and bus fault contingencies will be performed for the Impact Study)

No problems were identified.

Short Circuit

After the network upgrades required to alleviate the overloads in the area of this project were included in the analysis, the following circuit breakers were shown to be overdutied upon installation of the Y2-105 generator,

BUS_NO	BUS	BREAKER	Rating Type	Duty Percent With y2-105_PSEG_w-Reinforcements	Duty Percent Without y2-105_PSEG_w-Reinforcements	Duty Percent Difference	Note
5129	EAGLE PT 230.kV	101	S	108.40%	90.50%	17.90%	New Over-duty
5129	EAGLE PT 230.kV	102	S	108.40%	90.50%	17.90%	New Over-duty
5129	EAGLE PT 230.kV	103	S	108.40%	90.50%	17.90%	New Over-duty
5129	EAGLE PT 230.kV	104	S	108.40%	90.50%	17.90%	New Over-duty
5030	GLOUCSTR 230.kV	101H	S	106.70%	99.80%	6.90%	New Over-duty
5030	GLOUCSTR 230.kV	102H	S	106.70%	99.80%	6.90%	New Over-duty

In addition, the analysis also showed a significant fault contribution (i.e. above 3%) to **5 breakers**, which were already identified as over-duty. The breakers are listed below:

BUS_NO	BUS	BREAKER	Rating Type	Duty Percent With y2-105_PSEG_w-Reinforcements	Duty Percent Without y2-105_PSEG_w-Reinforcements	Duty Percent Difference	Note
5030	GLOUCSTR 230.kV	21H	S	134.50%	125.70%	8.80%	Over 100%, > 3% contribution
5030	GLOUCSTR 230.kV	51H	S	134.50%	125.70%	8.80%	Over 100%, > 3% contribution
5030	GLOUCSTR 230.kV	56H	S	134.40%	125.60%	8.80%	Over 100%, > 3% contribution
5030	GLOUCSTR 230.kV	26H	S	132.50%	122.20%	10.30%	Over 100%, > 3% contribution
5030	GLOUCSTR 230.kV	71H	S	123.40%	115.00%	8.40%	Over 100%, > 3% contribution

Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

1. The CUTHBERT-CAMDEN 230 kV line (from bus 219108 to bus 219125 ckt 2) loads from 102.3% to 104.07% (**DC power flow**) of its normal rating (500 MVA) for non-contingency condition. This project contributes approximately 8.88 MW to the thermal violation.

Please refer to Appendix 1 for a table containing the generators having contribution to this flowgate.

2. The CAMDEN-RICHMOND 230 kV line (from bus 219125 to bus 213922 ckt 1) loads from 106.68% to 107.88% (**DC power flow**) of its emergency rating (1754 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('CHIC125/* $ DELCO $ CHIC125 $ K'). This project contributes approximately 21.0 MW to the thermal violation.

CONTINGENCY 'CHIC125/* $ DELCO $ CHIC125 $ K'
TRIP BRANCH FROM BUS 213489 TO BUS 213490 CKT 1 /* CHICHST1 230.00 CHICHST2 230.00 $ DELCO $ CHIC125 $ K
END/* $ DELCO $ CHIC125 $ K

Please refer to Appendix 2 for a table containing the generators having contribution to this flowgate.

3. The WANEETA2-N PHILA 230 kV line (from bus 214010 to bus 213817 ckt 1) loads from 108.4% to 109.73% (**DC power flow**) of its emergency rating (701 MVA) for the bus fault outage of CONTINGENCY DESCRIPTION ('CHI230B1/* $ DELCO $ CHI230B1 $ B'). This project contributes approximately 9.3 MW to the thermal violation.

CONTINGENCY 'CHI230B1/* $ DELCO $ CHI230B1 $ B'
  DISCONNECT BUS 213489   /* CHICHST1 230.00 $ DELCO $ CHI230B1 $ B
  END/* $ DELCO $ CHI230B1 $ B

Please refer to Appendix 3 for a table containing the generators having contribution to this flowgate.

4. The CAMDEN-RICHMOND 230 kV line (from bus 219125 to bus 213922 ckt 1) loads from 110.17% to 111.37% (**DC power flow**) of its emergency rating (1754 MVA) for the bus fault outage of CONTINGENCY DESCRIPTION ('CHI230B1/* $ DELCO $ CHI230B1 $ B'). This project contributes approximately 20.97 MW to the thermal violation.

CONTINGENCY 'CHI230B1/* $ DELCO $ CHI230B1 $ B'
  DISCONNECT BUS 213489   /* CHICHST1 230.00 $ DELCO $ CHI230B1 $ B
  END/* $ DELCO $ CHI230B1 $ B

Please refer to Appendix 4 for a table containing the generators having contribution to this flowgate.

5. The CAMDEN-RICHMOND 230 kV line (from bus 219125 to bus 213922 ckt 1) loads from 110.17% to 111.37% (**DC power flow**) of its emergency rating (1754 MVA) for the line fault with failed breaker contingency outage of CONTINGENCY DESCRIPTION ('CHICH045/* $ DELCO $ CHICH045 $ STBK'). This project contributes approximately 20.97 MW to the thermal violation.

CONTINGENCY 'CHICH045/* $ DELCO $ CHICH045 $ STBK'
  DISCONNECT BUS 213489   /* CHICHST1 230.00 $ DELCO $ CHICH045 $ STBK
  DISCONNECT BUS 213627   /* FOULK8 230.00 $ DELCO $ CHICH045 $ STBK
  END/* $ DELCO $ CHICH045 $ STBK

Please refer to Appendix 5 for a table containing the generators having contribution to this flowgate.

6. The MCKLTON-DEPTFORD 230 kV line (from bus 228401 to bus 219109 ckt 2) loads from 112.09% to 113.61% (**DC power flow**) of its emergency rating (1400 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('PS18'). This project contributes approximately 21.26 MW to the thermal violation.

CONTINGENCY 'PS18'
  DISCONNECT BRANCH FROM BUS 219110 TO BUS 219120 CKT 1   /* GLOUCSTR EAGLE PT 230 230

DISCONNECT BRANCH FROM BUS 219110 TO BUS 219128 CKT 1 /* GLOUCSTR GLOUCSTR 230 26 T1
END

Please refer to Appendix 6 for a table containing the generators having contribution to this flowgate.

7. The EAGLE PT-GLOUCSTR 230 kV line (from bus 219120 to bus 219110 ckt 1) loads from 112.31% to 114.89% (**DC power flow**) of its emergency rating (1400 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('MICK-DEPT_A'). This project contributes approximately 36.11 MW to the thermal violation.

CONTINGENCY 'MICK-DEPT_A'
TRIP LINE FROM BUS 219109 TO BUS 228401 CKT 2 /* DEPTFORD MICKLETON
MOVE 100 PERCENT LOAD FROM BUS 219180 TO BUS 219181
MOVE 100 PERCENT LOAD FROM BUS 219255 TO BUS 219256
END

Please refer to Appendix 7 for a table containing the generators having contribution to this flowgate.

8. The EAGLE PT-GLOUCSTR 230 kV line (from bus 219120 to bus 219110 ckt 1) loads from 112.31% to 114.89% (**DC power flow**) of its emergency rating (1400 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('PS17B'). This project contributes approximately 36.11 MW to the thermal violation.

CONTINGENCY 'PS17B'
DISCONNECT BRANCH FROM BUS 219109 TO BUS 228401 CKT 2 /* DEPTFORD MICKLETON 230 230
MOVE 100 PERCENT LOAD FROM BUS 219180 TO BUS 219181 /* DEPTFORD T1 T2
END

Please refer to Appendix 8 for a table containing the generators having contribution to this flowgate.

9. The GLOUCSTR-CUTHBERT 230 kV line (from bus 219110 to bus 219108 ckt 2) loads from 114.85% to 116.62% (**DC power flow**) of its normal rating (500 MVA) for non-contingency condition. This project contributes approximately 8.84 MW to the thermal violation.

Please refer to Appendix 9 for a table containing the generators having contribution to this flowgate.

10. The CUTHBERT-CAMDEN 230 kV line (from bus 219108 to bus 219125 ckt 1) loads from 115.76% to 117.77% (**DC power flow**) of its normal rating (500 MVA) for non-contingency condition. This project contributes approximately 10.05 MW to the thermal violation.

Please refer to Appendix 10 for a table containing the generators having contribution to this flowgate.

11. The MCKLTON-DEPTFORD 230 kV line (from bus 228401 to bus 219109 ckt 2) loads from 116.97% to 118.45% (**DC power flow**) of its emergency rating (1400 MVA) for the line fault with failed breaker contingency outage of CONTINGENCY DESCRIPTION ('PS60'). This project contributes approximately 20.66 MW to the thermal violation.

```
CONTINGENCY 'PS60'                                  /* GLOUCESTER BRKR 1-2
  DISCONNECT BRANCH FROM BUS 219110 TO BUS 219120 CKT 1          /*
GLOUCSTR EAGLE PT 230 230
  DISCONNECT BRANCH FROM BUS 219110 TO BUS 219128 CKT 1          /*
GLOUCSTR 220-1
  DISCONNECT BRANCH FROM BUS 219110 TO BUS 219185 CKT 1          /*
GLOUCSTR T6
  DISCONNECT BRANCH FROM BUS 219126 TO BUS 219110 CKT 1
  DISCONNECT BRANCH FROM BUS 219110 TO BUS 219237 CKT 1          /*
GLOUCSTR CAP BANK
  MOVE 100 PERCENT LOAD FROM BUS 219185 TO BUS 219184            /* GLOUCSTR
T6 T5
  END
```

Please refer to Appendix 11 for a table containing the generators having contribution to this flowgate.

12. The GLOUCSTR-CUTHBERT 230 kV line (from bus 219110 to bus 219108 ckt 1) loads from 119.0% to 120.83% (**DC power flow**) of its normal rating (550 MVA) for non-contingency condition. This project contributes approximately 10.08 MW to the thermal violation.

Please refer to Appendix 12 for a table containing the generators having contribution to this flowgate.

13. The RICHMOND-WANEETA3 230 kV line (from bus 213922 to bus 214012 ckt 1) loads from 121.08% to 123.47% (**DC power flow**) of its normal rating (760 MVA) for non-contingency condition. This project contributes approximately 18.18 MW to the thermal violation.

Please refer to Appendix 13 for a table containing the generators having contribution to this flowgate.

14. The GLOUCSTR-CAMDEN 230 kV line (from bus 219110 to bus 219125 ckt 1) loads from 122.74% to 124.68% (**DC power flow**) of its emergency rating (700 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('GLO_CUTH'). This project contributes approximately 13.61 MW to the thermal violation.

```
CONTINGENCY 'GLO_CUTH'                          /* GLOUCESTER-CUTHBERT
BLVD 138KV **CUTHBERT BAAH
  TRIP LINE FROM BUS 219108 TO BUS 219110 CKT 1          /* CUTHBERT-
GLOUCESTER
  TRIP LINE FROM BUS 219110 TO BUS 219128 CKT 1          /* GLOUCESTER 220-2
  END
```

Please refer to Appendix 14 for a table containing the generators having contribution to this flowgate.

15. The CUTHBERT-CAMDEN 230 kV line (from bus 219108 to bus 219125 ckt 1) loads from 123.19% to 125.31% (**DC power flow**) of its emergency rating (792 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('CAM_CUTH_NEW'). This project contributes approximately 16.83 MW to the thermal violation.

```
CONTINGENCY 'CAM_CUTH_NEW'                      /* CAMDEN-CUTHBERT
BLVD 230KV
  TRIP LINE FROM BUS 219125 TO BUS 219108 CKT 2
  END
```

Please refer to Appendix 15 for a table containing the generators having contribution to this flowgate.

16. The GLOUCSTR-CAMDEN 230 kV line (from bus 219110 to bus 219125 ckt 1) loads from 125.7% to 127.72% (**DC power flow**) of its normal rating (500 MVA) for non-contingency condition. This project contributes approximately 10.09 MW to the thermal violation.

Please refer to Appendix 16 for a table containing the generators having contribution to this flowgate.

17. The GLOUCSTR-CUTHBERT 230 kV line (from bus 219110 to bus 219108 ckt 1) loads from 126.73% to 128.71% (**DC power flow**) of its emergency rating (761 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('CAM_GLO_NEW'). This project contributes approximately 15.02 MW to the thermal violation.

CONTINGENCY 'CAM_GLO_NEW' /* CAMDEN-CUTHBERT BLVD 230KV
TRIP LINE FROM BUS 219125 TO BUS 219110 CKT 1
END

Please refer to Appendix 17 for a table containing the generators having contribution to this flowgate.

18. The RICHMOND-WANEETA3 230 kV line (from bus 213922 to bus 214012 ckt 1) loads from 134.27% to 135.84% (**DC power flow**) of its emergency rating (1195 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('CHIC125/* $ DELCO $ CHIC125 $ K'). This project contributes approximately 18.72 MW to the thermal violation.

CONTINGENCY 'CHIC125/* $ DELCO $ CHIC125 $ K'
TRIP BRANCH FROM BUS 213489 TO BUS 213490 CKT 1 /* CHICHST1 230.00 CHICHST2 230.00 $ DELCO $ CHIC125 $ K
END/* $ DELCO $ CHIC125 $ K

Please refer to Appendix 18 for a table containing the generators having contribution to this flowgate.

19. The CUTHBERT-CAMDEN 230 kV line (from bus 219108 to bus 219125 ckt 2) loads from 135.18% to 137.51% (**DC power flow**) of its emergency rating (700 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('CAM_CUTH'). This project contributes approximately 16.32 MW to the thermal violation.

CONTINGENCY 'CAM_CUTH' /* CAMDEN-CUTHBERT BLVD 230KV
TRIP LINE FROM BUS 219125 TO BUS 219108 CKT 1
END

Please refer to Appendix 19 for a table containing the generators having contribution to this flowgate.

20. The GLOUCSTR-CUTHBERT 230 kV line (from bus 219110 to bus 219108 ckt 2) loads from 137.78% to 139.9% (**DC power flow**) of its emergency rating (700 MVA) for the single line contingency outage of CONTINGENCY DESCRIPTION ('GLO_CUTH'). This project contributes approximately 14.81 MW to the thermal violation.

CONTINGENCY 'GLO_CUTH' /* GLOUCESTER-CUTHBERT BLVD 138KV **CUTHBERT BAAH
TRIP LINE FROM BUS 219108 TO BUS 219110 CKT 1 /* CUTHBERT-GLOUCESTER
TRIP LINE FROM BUS 219110 TO BUS 219128 CKT 1 /* GLOUCESTER 220-2

END

Please refer to Appendix 20 for a table containing the generators having contribution to this flowgate.

21. The RICHMOND-WANEETA3 230 kV line (from bus 213922 to bus 214012 ckt 1) loads from 151.37% to 152.93% (**DC power flow**) of its emergency rating (1195 MVA) for the bus fault outage of CONTINGENCY DESCRIPTION ('CHI230B1/* $ DELCO $ CHI230B1 $ B'). This project contributes approximately 18.68 MW to the thermal violation.

```
CONTINGENCY 'CHI230B1/* $ DELCO $ CHI230B1 $ B'
  DISCONNECT BUS 213489                                  /* CHICHST1 230.00 $ DELCO $
CHI230B1 $ B
  END/*         $ DELCO $ CHI230B1 $ B
```

Please refer to Appendix 21 for a table containing the generators having contribution to this flowgate.

22. The RICHMOND-WANEETA3 230 kV line (from bus 213922 to bus 214012 ckt 1) loads from 151.36% to 152.93% (**DC power flow**) of its emergency rating (1195 MVA) for the line fault with failed breaker contingency outage of CONTINGENCY DESCRIPTION ('CHICH045/* $ DELCO $ CHICH045 $ STBK'). This project contributes approximately 18.68 MW to the thermal violation.

```
CONTINGENCY 'CHICH045/* $ DELCO $ CHICH045 $ STBK'
  DISCONNECT BUS 213489                                  /* CHICHST1 230.00 $ DELCO $
CHICH045 $ STBK
  DISCONNECT BUS 213627                                  /* FOULK8 230.00 $ DELCO $
CHICH045 $ STBK
  END/*         $ DELCO $ CHICH045 $ STBK
```

Please refer to Appendix 22 for a table containing the generators having contribution to this flowgate.

New System Reinforcements

(Upgrades required to mitigate reliability criteria violations, i.e. "Network Impacts", initially caused by the addition of this project generation)

The over-dutied condition of the circuit breakers can be alleviated by replacing each one with a circuit breaker that has a higher rated interrupting capability. The chart below shows the estimated cost for each replacement.

ID	Bus	Breaker	BKR CAP as of 2016 (kA)	Desired BKR CAP (kA)	Cost	R&C	TOTAL
1	EAGLE PT 230.kV	101	50	63	$2,300,000	$1,150,000	$3,450,000
2	EAGLE PT 230.kV	102	50	63	$2,300,000	$1,150,000	$3,450,000
3	EAGLE PT 230.kV	103	50	63	$2,300,000	$1,150,000	$3,450,000
4	EAGLE PT 230.kV	104	50	63	$2,300,000	$1,150,000	$3,450,000
5	GLOUCESTER 230.kV	101H	63	80	$1,550,000	$775,000	$2,325,000
6	GLOUCESTER 230.kV	102H	63	80	$1,550,000	$775,000	$2,325,000
7	GLOUCESTER 230.kV	21H	63	80	$1,550,000	$775,000	$2,325,000
8	GLOUCESTER 230.kV	26H	63	80	$1,550,000	$775,000	$2,325,000
9	GLOUCESTER 230.kV	51H	63	80	$1,550,000	$775,000	$2,325,000
10	GLOUCESTER 230.kV	56H	63	80	$1,550,000	$775,000	$2,325,000
11	GLOUCESTER 230.kV	71H	63	80	$1,550,000	$775,000	$2,325,000
					$20,050,000	**$10,025,000**	**$30,075,000**

Assumptions:

1. Not single sourced; contractor will vary by location
2. Prices include disconnect switch, CCVTs, bus support, new grounding grid, all engineering.
3. All costs are inside plant. No outside plant cost included
4. 24 month implementation

Contribution to Previously Identified System Reinforcements

(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

1. The overloads listed as 1, 15, and 19 above can be alleviated by looping the Camden-Gloucester 230kV cable circuit into and out of Cuthbert Station. In addition forced cooling needs to be added to the cable between Gloucester and Camden to increase the rating. The estimated cost is **$55 million**. The estimated time to complete is 24 months.

2. The overloads listed as 2, 4, and 5 above can be alleviated by building a new Camden – Richmond 230 kV line. The estimated cost: **$4.5 million**. The estimated time to complete is 24 months.

3. The overload on the Waneeta-North Philadelphia 230 kV circuit can be alleviated by upgrading the circuit. The upgrade will consist of replacing the aerial conductor, replacing the disconnect switches and replacing the line cable in the substation. The estimated cost of the upgrade is **$3 million.** The estimated time to construct is 36 months.

4. The overloads listed as 6, 7, 8, and 11 can be alleviated by constructing a new Eagle Point - Gloucester 230 kV line. The estimated cost is **$6.75 million**. The estimated time to complete is 24 months.

5. The overloads listed as 9, 10, 12, 14, 16, 17, and 20 can be alleviated by constructing a new Camden – Gloucester 230 kV line. The estimated cost: **$156 million**. The estimated time to complete is 36 months.

6. The overloads listed as 13, 18, 21, and 22 can be alleviated by reconductoring the aerial portion of the Richmond-Waneeta 230kV line, which already has the minimum rating requirement of 2882 A. The total aerial mileage per the PECO 230 kV line length spreadsheet is 2.23 miles. Replace with 2-2000 kcmil AAC 127 Strand (Cowslip) with an emergency rating of 4130 MVA. Remove the existing two UG cables (2-3-1x3000 KCMIL CU HPOFP) and replace with two dielectric (XLPE - cross link polyethelene) cables. The estimated cost is **$15 million.** The estimated time to complete is 36 months.

Appendix 1

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.63
228200	CARL#1CT	.06
228201	CARL#2CT	.07
228251	CARLLS#4	.38
228309	CCLP NUG	.56
213400	COVANTA DELA	.16
228301	D/W 1 ST	6.95
228302	D/W 6 ST	7.13
219230	EAGLE P	.08
219120	EAGLE PT	.67
219128	GLOUCSTR	.16
227881	GRENWCHG	.
228304	LOGAN	.6
228334	MANNMILG	.02
228400	MICK 1CT	.15
227807	MO AV B	1.15
219137	NAT PARK	4.
228307	PCLP GT	.15
228306	PCLP STM	.15
295841	Q-090 2	2.03
228343	QUINTN#1	.18
291413	S-043	.03
291017	S-107 1CT	17.93
291019	S-107 1ST	35.85
291018	S-107 2CT	17.93
291065	S121	.1
292200	T-059	.04
292512	T-146 C	4.26
885600	T20SOLAR E	-.13
292815	U1-056 C	2.73
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.15
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.09
297082	V2-035 C	.06
297103	V2-046 C	.01
904081	V4-009 C	.01
904221	V4-023 C1	.57
904223	V4-023 C2	.07

904231	V4-024 C1	.34
904233	V4-024 C2	.33
904241	V4-025 C1	.4
904243	V4-025 C2	.2
904245	V4-025 C3	.05
904247	V4-025 C4	.08
904281	V4-029 C	.72
904361	V4-037 C1	.35
904363	V4-037 C3	.36
904401	V4-041 C	.62
904411	V4-042 C1	.31
904413	V4-042 C2	.35
904531	V4-054 C	.01
904611	V4-062 C	.1
228471	VALERO	.06
228472	VALERO	.03
228473	VALERO	.03
228484	VALERO	.04
228700	VNLD 10	1.66
901051	W1-021 C	.6
901061	W1-022 C	.6
901071	W1-023 C	.6
901121	W1-039	.03
901141	W1-048 C	.17
901191	W1-068 C	.66
901271	W1-083 C	.01
901281	W1-085 C	.55
901291	W1-086 C	.55
901301	W1-087 C	.55
901311	W1-088 C	.55
901321	W1-089 C	.51
901331	W1-090 C OP1	.41
901461	W1-117 C	.57
901471	W1-118 C	.57
901561	W1-130 C	.29
902301	W2-035 C	.51
902321	W2-039	4.52
902341	W2-047 C	.39
902621	W2-101 C	.67
903251	W3-009 C	.31
903381	W3-033	.43
903501	W3-058 C	.24
903651	W3-101 C	.
903891	W3-157 C	.05

903951	W3-174	19.05
903961	W3-175	36.52
905131	W4-015 C	18.75
905141	W4-016	46.89
905161	W4-018 C	.31
905221	W4-027 C	.23
905301	W4-040 C	.34
905391	W4-063 C	.04
907031	X1-021 C	.01
907101	X1-039	.09
909091	X2-027 C OP1	.07
909101	X2-028 C OP1	.1
913511	Y1-077	4.5
914301	Y2-081 C	.27
914451	Y2-102	17.2
914481	Y2-105	8.88

Appendix 2

Bus Number	Bus Name	Full Contribution
219103	BURLNGT8	4.52
219124	BURLNGT9	39.58
219156	CAMD CGN	1.46
228200	CARL#1CT	.21
228201	CARL#2CT	.21
228251	CARLLS#4	1.24
228309	CCLP NUG	1.59
228000	CEDR#1CT	7.2
228001	CEDR#2CT	3.46
213400	COVANTA DELA	.51
228301	D/W 1 ST	21.8
228302	D/W 6 ST	22.35
231904	DC1 NUG	3.12
231905	DC2 NUG	3.12
219230	EAGLE P	.2
219120	EAGLE PT	1.59
231903	GEN4	8.85
219128	GLOUCSTR	.37
227881	GRENWCHG	.01
232906	IR3	18.83
228304	LOGAN	1.63
228334	MANNMILG	.05
219134	MERCER 3	6.14
228400	MICK 1CT	.4
227807	MO AV B	4.44
219137	NAT PARK	9.22
228307	PCLP GT	.4
228306	PCLP STM	.4
295841	Q-090 2	5.32
228343	QUINTN#1	.55
291413	S-043	.1
291017	S-107 1CT	46.96
291019	S-107 1ST	93.92
291018	S-107 2CT	46.96
291065	S121	.35
292200	T-059	.1
886231	T-144 C	1.08
292512	T-146 C	15.69
885600	T20SOLAR E	.12
292815	U1-056 C	10.3
292827	U1-066 1CT	.05

292828	U1-066 2CT	.05
292966	U2-045 C	.58
293062	U2-076	.53
291995	U4-036 C	.02
292186	V1-030 C3	.
292104	V1-030 C6	.
292088	V1-030 CB	.02
297005	V2-003 C	.34
297076	V2-028 C	.24
297082	V2-035 C	.21
297103	V2-046 C	.04
904041	V4-005 C	.01
904081	V4-009 C	.02
900131	V4-022 C	.2
904221	V4-023 C1	1.85
904223	V4-023 C2	.22
904231	V4-024 C1	1.06
904233	V4-024 C2	1.04
904241	V4-025 C1	1.16
904243	V4-025 C2	.63
904245	V4-025 C3	.16
904247	V4-025 C4	.24
904281	V4-029 C	2.18
904361	V4-037 C1	1.08
904363	V4-037 C3	1.09
904401	V4-041 C	2.14
904411	V4-042 C1	1.05
904413	V4-042 C2	1.13
904531	V4-054 C	.04
904611	V4-062 C	.31
904631	V4-064 C	.82
228471	VALERO	.17
228472	VALERO	.08
228473	VALERO	.08
228484	VALERO	.1
228700	VNLD 10	5.69
901001	W1-003 C	.82
901011	W1-004 C	.82
901021	W1-005 C	.82
901031	W1-006 C	.82
901041	W1-008 C	.82
901051	W1-021 C	1.96
901061	W1-022 C	1.96
901071	W1-023 C	1.96

901121	W1-039	.07
901141	W1-048 C	.52
901191	W1-068 C	2.07
901201	W1-070 C	.82
901271	W1-083 C	.02
901281	W1-085 C	1.87
901291	W1-086 C	1.87
901301	W1-087 C	1.87
901311	W1-088 C	1.87
901321	W1-089 C	1.71
901331	W1-090 C OP1	1.79
901461	W1-117 C	1.91
901471	W1-118 C	1.91
901561	W1-130 C	.98
902211	W2-019 C	.35
902301	W2-035 C	1.61
902321	W2-039	15.44
902341	W2-047 C	1.12
902391	W2-056 C	.02
902431	W2-071 C	.01
902561	W2-090 C	.04
902621	W2-101 C	2.08
902631	W2-102 C	.02
903251	W3-009 C	.99
903311	W3-028 C	6.82
903341	W3-032A 1	16.75
903351	W3-032A 2	16.75
903381	W3-033	1.66
903471	W3-048	7.26
903481	W3-054AC	1.33
903491	W3-057 C	.04
903501	W3-058 C	.86
903651	W3-101 C	.01
903731	W3-124 C	.01
903891	W3-157 C	.17
903921	W3-160 C	.41
903951	W3-174	55.3
903961	W3-175	106.02
905131	W4-015 C	49.13
905141	W4-016	122.81
905161	W4-018 C	1.05
905181	W4-021	41.25
905211	W4-025 C	.4
905221	W4-027 C	.77

905231	W4-029 C	.01
905301	W4-040 C	1.09
905331	W4-045 C	.49
905391	W4-063 C	.14
905561	W4-103 C	.02
907031	X1-021 C	.02
907101	X1-039	.22
907251	X1-070 C	.01
907261	X1-071 C	.
907291	X1-074	31.77
907351	X1-085 C	.2
907401	X1-096 C	2.1
909091	X2-027 C OP1	.21
909101	X2-028 C OP1	.31
909231	X2-066	33.27
909241	X2-067	33.5
910571	X3-008 C	.81
910591	X3-015 C	.79
910671	X3-040 C	.42
910681	X3-041 C	.61
910691	X3-043 C	.03
910821	X3-066 C	.24
910841	X3-070	.22
912101	X4-015 C	.29
912121	X4-017 C	.82
912171	X4-027-CT1	2.16
912172	X4-027-CT2	2.16
912173	X4-027-CT3	2.16
913041	Y1-008 C	.7
913501	Y1-075 C	.
913511	Y1-077	16.56
913531	Y1-079 C OP1	.4
913541	Y1-080 C	.14
914271	Y2-078	1.98
914281	Y2-079	19.83
914301	Y2-081 C	.65
914451	Y2-102	53.93
914481	Y2-105	21.

Appendix 3

Bus Number	Bus Name	Full Contribution
219221	BRL12CT1	.16
219222	BRL12CT2	.16
219223	BRL12CT3	.16
219224	BRL12CT4	.16
219103	BURLNGT8	3.47
219124	BURLNGT9	30.43
219156	CAMD CGN	.64
219241	CAMDEN1	.02
219242	CAMDEN2	.
228251	CARLLS#4	.58
228000	CEDR#1CT	3.76
228001	CEDR#2CT	1.81
228301	D/W 1 ST	10.18
228302	D/W 6 ST	10.45
219230	EAGLE P	.09
219120	EAGLE PT	.7
219128	GLOUCSTR	.16
219134	MERCER 3	16.47
227807	MO AV B	2.16
219137	NAT PARK	4.07
228343	QUINTN#1	.26
213918	RICHMD91	.24
213919	RICHMD92	.24
291017	S-107 1CT	21.14
291019	S-107 1ST	42.28
291018	S-107 2CT	21.14
292512	T-146 C	7.57
292513	T-146 E	30.28
885600	T20SOLAR E	.31
292815	U1-056 C	4.99
292816	U1-056 E	33.43
292966	U2-045 C	.28
292967	U2-045 E	1.88
293062	U2-076	1.42
291995	U4-036 C	.01
291996	U4-036 E	.55
292063	V1-021 E	.03
292104	V1-030 C6	.
292088	V1-030 CB	.01
292194	V1-030 CE	.41
292099	V1-030 E3	.13

292101	V1-030 E4	.06
292103	V1-030 E5	.18
292105	V1-030 E6	.16
292107	V1-030 E7	.04
292115	V1-030 EB	.73
292195	V1-030 EE	.67
297005	V2-003 C	.17
297006	V2-003 E	.27
297021	V2-009 E1	.09
297023	V2-009 E2	.17
297027	V2-009 E4	.14
297082	V2-035 C	.1
297083	V2-035 E	.16
297090	V2-041 E	.28
297104	V2-046 E	1.68
297106	V2-047 E	.15
293378	V3-024 E	.17
904042	V4-005 E	.26
904082	V4-009 E	.76
904221	V4-023 C1	.87
904223	V4-023 C2	.1
904222	V4-023 E1	1.43
904224	V4-023 E2	.15
904231	V4-024 C1	.5
904233	V4-024 C2	.49
904232	V4-024 E1	.81
904234	V4-024 E2	.79
904241	V4-025 C1	.53
904243	V4-025 C2	.29
904245	V4-025 C3	.07
904247	V4-025 C4	.11
904242	V4-025 E1	.87
904244	V4-025 E2	.47
904246	V4-025 E3	.12
904248	V4-025 E4	.19
904281	V4-029 C	1.01
904282	V4-029 E	1.65
904361	V4-037 C1	.5
904363	V4-037 C3	.51
904362	V4-037 E2	.82
904364	V4-037 E4	.82
904401	V4-041 C	1.01
904402	V4-041 E	1.65
904411	V4-042 C1	.5

904413	V4-042 C2	.53
904412	V4-042 E1	.81
904414	V4-042 E2	.86
904532	V4-054 E	1.51
904611	V4-062 C	.14
904612	V4-062 E	.23
900462	V4-067 E	.17
228700	VNLD 10	2.7
901051	W1-021 C	.92
901052	W1-021 E	1.51
901061	W1-022 C	.92
901062	W1-022 E	1.51
901071	W1-023 C	.92
901072	W1-023 E	1.51
901141	W1-048 C	.24
901142	W1-048 E	.4
901191	W1-068 C	.97
901192	W1-068 E	1.58
901271	W1-083 C	.01
901272	W1-083 E	.56
901281	W1-085 C	.88
901282	W1-085 E	1.44
901291	W1-086 C	.88
901292	W1-086 E	1.44
901301	W1-087 C	.88
901302	W1-087 E	1.44
901311	W1-088 C	.88
901312	W1-088 E	1.44
901321	W1-089 C	.81
901322	W1-089 E	1.33
901331	W1-090 C OP1	.87
901332	W1-090 E OP1	1.44
901461	W1-117 C	.9
901462	W1-117 E	1.47
901471	W1-118 C	.9
901472	W1-118 E	1.47
901482	W1-119 E	.94
901492	W1-120 E	1.05
901502	W1-121 E	.44
901552	W1-129 E	.27
901561	W1-130 C	.47
901562	W1-130 E	.76
902181	W2-014	.01
902211	W2-019 C	.2

902212	W2-019 E	.32
902262	W2-026 E	.22
902292	W2-030 E	.67
902301	W2-035 C	.75
902302	W2-035 E	1.26
902321	W2-039	7.32
902341	W2-047 C	.51
902342	W2-047 E	.84
902392	W2-056 E	.99
902411	W2-060 C	.03
902412	W2-060 E	2.05
902432	W2-071 E	.26
902562	W2-090 E	1.8
902621	W2-101 C	.97
902622	W2-101 E	1.59
902632	W2-102 E	.63
903251	W3-009 C	.47
903252	W3-009 E	.76
903292	W3-025 E	.17
903301	W3-026 C	.01
903302	W3-026 E	.51
903311	W3-028 C	3.6
903312	W3-028 E	24.23
903341	W3-032A 1	7.78
903351	W3-032A 2	7.78
903381	W3-033	.81
903401	W3-041 C	.01
903402	W3-041 E	1.03
903471	W3-048	3.52
903492	W3-057 E	1.72
903501	W3-058 C	.42
903502	W3-058 E	.68
903592	W3-079 E	.48
903601	W3-080 C	.03
903602	W3-080 E	2.05
903652	W3-101 E	.23
903722	W3-120 E	.87
903732	W3-124 E	.25
903891	W3-157 C	.08
903892	W3-157 E	.13
903902	W3-158 E	.41
903912	W3-159 E	.5
903951	W3-174	25.44
903961	W3-175	48.77

905112	W4-011 E	.51
905131	W4-015 C	22.12
905141	W4-016	55.29
905161	W4-018 C	.5
905162	W4-018 E	.81
905211	W4-025 C	.23
905212	W4-025 E	.38
905221	W4-027 C	.37
905222	W4-027 E	.6
905232	W4-029 E	.26
905301	W4-040 C	.51
905302	W4-040 E	.84
905331	W4-045 C	.28
905332	W4-045 E	.46
905391	W4-063 C	.07
905392	W4-063 E	.47
905482	W4-085 E	.65
905512	W4-089 E	.23
905522	W4-090 E	.23
905562	W4-103 E	.6
907031	X1-021 C	.01
907032	X1-021 E	.57
907101	X1-039	.1
907132	X1-043 E	.29
907201	X1-054 C	.01
907202	X1-054 E	1.03
907222	X1-066 E	.11
907251	X1-070 C	.01
907252	X1-070 E	.41
907261	X1-071 C	.
907262	X1-071 E	.15
907291	X1-074	14.84
907351	X1-085 C	.12
907352	X1-085 E	.19
907472	X1-110 E	.22
909032	X2-013 E	.35
909091	X2-027 C OP1	.1
909092	X2-027 E OP1	.16
909101	X2-028 C OP1	.15
909102	X2-028 E OP1	.24
909122	X2-033 E	.12
909212	X2-059 E	.39
909241	X2-067	15.55
909312	X2-088 E	.08

910562	X3-007 E	.23
910692	X3-043 E	1.08
910862	X3-075 E	.58
910902	X3-081 E	-.12
912032	X4-004 E	.97
912101	X4-015 C	.17
912102	X4-015 E	.27
912171	X4-027-CT1	1.03
912172	X4-027-CT2	1.03
912173	X4-027-CT3	1.03
912271	X4-045 E	.13
913362	Y1-057 E	.17
913502	Y1-075 E	.24
913511	Y1-077	7.98
914271	Y2-078	1.16
914281	Y2-079	11.63
914301	Y2-081 C	.29
914302	Y2-081 E	.47
914451	Y2-102	25.2
914481	Y2-105	9.3

Appendix 4

Bus Number	Bus Name	Full Contribution
219103	BURLNGT8	4.49
219124	BURLNGT9	39.32
219156	CAMD CGN	1.45
219241	CAMDEN1	.05
219242	CAMDEN2	.01
228251	CARLLS#4	1.24
228000	CEDR#1CT	7.18
228001	CEDR#2CT	3.46
228301	D/W 1 ST	21.83
228302	D/W 6 ST	22.39
231904	DC1 NUG	3.24
231905	DC2 NUG	3.24
219230	EAGLE P	.2
219120	EAGLE PT	1.59
231903	GEN4	9.2
219128	GLOUCSTR	.37
232906	IR3	19.5
219134	MERCER 3	5.93
227807	MO AV B	4.44
214194	N WALES4	-.24
219137	NAT PARK	9.19
295841	Q-090 2	5.33
228343	QUINTN#1	.55
291017	S-107 1CT	47.05
291019	S-107 1ST	94.11
291018	S-107 2CT	47.05
886231	T-144 C	1.12
886232	T-144 E	1.09
292512	T-146 C	15.72
292513	T-146 E	62.86
885600	T20SOLAR E	.11
292815	U1-056 C	10.31
292816	U1-056 E	68.99
292966	U2-045 C	.58
292967	U2-045 E	3.86
293062	U2-076	.51
291995	U4-036 C	.02
291996	U4-036 E	1.24
292063	V1-021 E	.07
292104	V1-030 C6	.
292088	V1-030 CB	.02

292194	V1-030 CE	.93
292099	V1-030 E3	.24
292101	V1-030 E4	.07
292103	V1-030 E5	.23
292105	V1-030 E6	.36
292107	V1-030 E7	.05
292115	V1-030 EB	1.65
292195	V1-030 EE	1.52
297005	V2-003 C	.35
297006	V2-003 E	.56
297021	V2-009 E1	.1
297023	V2-009 E2	.21
297025	V2-009 E3	.22
297027	V2-009 E4	.18
297039	V2-013 E	.02
297076	V2-028 C	.25
297077	V2-028 E	.41
297082	V2-035 C	.21
297083	V2-035 E	.34
297090	V2-041 E	.58
297104	V2-046 E	3.61
297106	V2-047 E	.31
293378	V3-024 E	.21
904042	V4-005 E	.46
904082	V4-009 E	1.62
900131	V4-022 C	.21
900132	V4-022 E	.35
904221	V4-023 C1	1.85
904223	V4-023 C2	.22
904222	V4-023 E1	3.05
904224	V4-023 E2	.33
904231	V4-024 C1	1.06
904233	V4-024 C2	1.04
904232	V4-024 E1	1.74
904234	V4-024 E2	1.7
904241	V4-025 C1	1.16
904243	V4-025 C2	.63
904245	V4-025 C3	.16
904247	V4-025 C4	.24
904242	V4-025 E1	1.89
904244	V4-025 E2	1.02
904246	V4-025 E3	.26
904248	V4-025 E4	.4
904281	V4-029 C	2.18

904282	V4-029 E	3.56
904361	V4-037 C1	1.08
904363	V4-037 C3	1.09
904362	V4-037 E2	1.76
904364	V4-037 E4	1.78
904401	V4-041 C	2.14
904402	V4-041 E	3.49
904411	V4-042 C1	1.05
904413	V4-042 C2	1.13
904412	V4-042 E1	1.72
904414	V4-042 E2	1.84
904532	V4-054 E	3.21
904611	V4-062 C	.31
904612	V4-062 E	.49
904631	V4-064 C	.85
904632	V4-064 E	1.38
900462	V4-067 E	.35
228700	VNLD 10	5.7
901001	W1-003 C	.85
901002	W1-003 E	1.38
901011	W1-004 C	.85
901012	W1-004 E	1.38
901021	W1-005 C	.85
901022	W1-005 E	1.38
901031	W1-006 C	.85
901032	W1-006 E	1.38
901041	W1-008 C	.85
901042	W1-008 E	1.38
901051	W1-021 C	1.96
901052	W1-021 E	3.21
901061	W1-022 C	1.96
901062	W1-022 E	3.21
901071	W1-023 C	1.96
901072	W1-023 E	3.21
901082	W1-024 E	.17
901102	W1-032 E	.12
901141	W1-048 C	.52
901142	W1-048 E	.85
901191	W1-068 C	2.08
901192	W1-068 E	3.39
901201	W1-070 C	.85
901202	W1-070 E	1.38
901271	W1-083 C	.02
901272	W1-083 E	1.27

901281	W1-085 C	1.87
901282	W1-085 E	3.05
901291	W1-086 C	1.87
901292	W1-086 E	3.05
901301	W1-087 C	1.87
901302	W1-087 E	3.05
901311	W1-088 C	1.87
901312	W1-088 E	3.05
901321	W1-089 C	1.71
901322	W1-089 E	2.82
901331	W1-090 C OP1	1.79
901332	W1-090 E OP1	2.95
901422	W1-113 E	.31
901461	W1-117 C	1.91
901462	W1-117 E	3.12
901471	W1-118 C	1.91
901472	W1-118 E	3.12
901482	W1-119 E	1.65
901492	W1-120 E	1.83
901502	W1-121 E	.55
901522	W1-124 E	.73
901552	W1-129 E	.47
901561	W1-130 C	.98
901562	W1-130 E	1.6
902211	W2-019 C	.35
902212	W2-019 E	.56
902262	W2-026 E	.46
902292	W2-030 E	1.37
902301	W2-035 C	1.61
902302	W2-035 E	2.69
902321	W2-039	15.47
902341	W2-047 C	1.12
902342	W2-047 E	1.83
902392	W2-056 E	1.74
902412	W2-060 E	2.65
902432	W2-071 E	.49
902452	W2-074 E	.08
902482	W2-078 E	.36
902552	W2-088 E	.72
902562	W2-090 E	3.17
902621	W2-101 C	2.09
902622	W2-101 E	3.4
902632	W2-102 E	1.11
903251	W3-009 C	.99

903252	W3-009 E	1.62
903292	W3-025 E	.3
903302	W3-026 E	.66
903311	W3-028 C	6.81
903312	W3-028 E	45.85
903341	W3-032A 1	17.31
903351	W3-032A 2	17.31
903381	W3-033	1.66
903402	W3-041 E	1.32
903422	W3-045 E	.14
903471	W3-048	7.32
903481	W3-054AC	1.38
903482	W3-054AE	9.22
903492	W3-057 E	3.11
903501	W3-058 C	.87
903502	W3-058 E	1.41
903582	W3-078 E	.51
903592	W3-079 E	.79
903602	W3-080 E	2.65
903652	W3-101 E	.49
903722	W3-120 E	1.51
903732	W3-124 E	.44
903891	W3-157 C	.17
903892	W3-157 E	.28
903902	W3-158 E	.71
903912	W3-159 E	.83
903921	W3-160 C	.42
903922	W3-160 E	.69
903951	W3-174	55.44
903961	W3-175	106.29
905112	W4-011 E	.85
905131	W4-015 C	49.23
905141	W4-016	123.06
905161	W4-018 C	1.05
905162	W4-018 E	1.72
905181	W4-021	40.77
905211	W4-025 C	.4
905212	W4-025 E	.67
905221	W4-027 C	.77
905222	W4-027 E	1.26
905232	W4-029 E	.48
905301	W4-040 C	1.1
905302	W4-040 E	1.79
905331	W4-045 C	.49

905332	W4-045 E	.81
905391	W4-063 C	.14
905392	W4-063 E	.97
905432	W4-072 E	.64
905482	W4-085 E	.48
905512	W4-089 E	.49
905522	W4-090 E	.49
905562	W4-103 E	1.09
907031	X1-021 C	.02
907032	X1-021 E	1.29
907052	X1-032 E	.45
907082	X1-037 E	.81
907101	X1-039	.22
907132	X1-043 E	.52
907162	X1-049 E	.13
907202	X1-054 E	1.32
907222	X1-066 E	.23
907252	X1-070 E	.66
907261	X1-071 C	.
907262	X1-071 E	.3
907291	X1-074	32.76
907351	X1-085 C	.2
907352	X1-085 E	.32
907401	X1-096 C	2.18
907402	X1-096 E	14.56
907472	X1-110 E	.46
909032	X2-013 E	.77
909091	X2-027 C OP1	.21
909092	X2-027 E OP1	.34
909101	X2-028 C OP1	.31
909102	X2-028 E OP1	.51
909122	X2-033 E	.14
909212	X2-059 E	.64
909231	X2-066	34.44
909241	X2-067	34.63
909312	X2-088 E	.1
910562	X3-007 E	.29
910571	X3-008 C	.84
910572	X3-008 E	1.38
910591	X3-015 C	.82
910592	X3-015 E	1.34
910671	X3-040 C	.44
910672	X3-040 E	2.91
910681	X3-041 C	.64

910682	X3-041 E	1.03
910692	X3-043 E	1.9
910821	X3-066 C	.24
910822	X3-066 E	.4
910841	X3-070	.23
910852	X3-071 E	.69
910862	X3-075 E	1.31
910882	X3-077 E	.69
910902	X3-081 E	-.11
912032	X4-004 E	2.19
912101	X4-015 C	.29
912102	X4-015 E	.47
912121	X4-017 C	.85
912122	X4-017 E	1.38
912171	X4-027-CT1	2.31
912172	X4-027-CT2	2.31
912173	X4-027-CT3	2.31
912182	X4-031 E	.16
912232	X4-040 E	.22
912271	X4-045 E	.12
913041	Y1-008 C	.72
913042	Y1-008 E	4.85
913362	Y1-057 E	.34
913502	Y1-075 E	.44
913511	Y1-077	16.58
913531	Y1-079 C OP1	.41
913532	Y1-079 E OP1	.67
913541	Y1-080 C	.14
913542	Y1-080 E	.23
914271	Y2-078	1.97
914281	Y2-079	19.72
914301	Y2-081 C	.65
914302	Y2-081 E	1.06
914451	Y2-102	54.02
914481	Y2-105	20.97

Appendix 5

Bus Number	Bus Name	Full Contribution
219103	BURLNGT8	4.49
219124	BURLNGT9	39.32
219156	CAMD CGN	1.45
219241	CAMDEN1	.05
219242	CAMDEN2	.01
228251	CARLLS#4	1.24
228000	CEDR#1CT	7.18
228001	CEDR#2CT	3.46
228301	D/W 1 ST	21.83
228302	D/W 6 ST	22.39
231904	DC1 NUG	3.24
231905	DC2 NUG	3.24
219230	EAGLE P	.2
219120	EAGLE PT	1.59
231903	GEN4	9.2
219128	GLOUCSTR	.37
232906	IR3	19.5
219134	MERCER 3	5.93
227807	MO AV B	4.44
214194	N WALES4	-.24
219137	NAT PARK	9.19
295841	Q-090 2	5.33
228343	QUINTN#1	.55
291017	S-107 1CT	47.05
291019	S-107 1ST	94.11
291018	S-107 2CT	47.05
886231	T-144 C	1.12
886232	T-144 E	1.09
292512	T-146 C	15.72
292513	T-146 E	62.86
885600	T20SOLAR E	.11
292815	U1-056 C	10.31
292816	U1-056 E	68.99
292966	U2-045 C	.58
292967	U2-045 E	3.86
293062	U2-076	.51
291995	U4-036 C	.02
291996	U4-036 E	1.24
292063	V1-021 E	.07
292104	V1-030 C6	.
292088	V1-030 CB	.02

292194	V1-030 CE	.93
292099	V1-030 E3	.24
292101	V1-030 E4	.07
292103	V1-030 E5	.23
292105	V1-030 E6	.36
292107	V1-030 E7	.05
292115	V1-030 EB	1.65
292195	V1-030 EE	1.52
297005	V2-003 C	.35
297006	V2-003 E	.56
297021	V2-009 E1	.1
297023	V2-009 E2	.21
297025	V2-009 E3	.22
297027	V2-009 E4	.18
297039	V2-013 E	.02
297076	V2-028 C	.25
297077	V2-028 E	.41
297082	V2-035 C	.21
297083	V2-035 E	.34
297090	V2-041 E	.58
297104	V2-046 E	3.61
297106	V2-047 E	.31
293378	V3-024 E	.21
904042	V4-005 E	.46
904082	V4-009 E	1.62
900131	V4-022 C	.21
900132	V4-022 E	.35
904221	V4-023 C1	1.85
904223	V4-023 C2	.22
904222	V4-023 E1	3.05
904224	V4-023 E2	.33
904231	V4-024 C1	1.06
904233	V4-024 C2	1.04
904232	V4-024 E1	1.74
904234	V4-024 E2	1.7
904241	V4-025 C1	1.16
904243	V4-025 C2	.63
904245	V4-025 C3	.16
904247	V4-025 C4	.24
904242	V4-025 E1	1.89
904244	V4-025 E2	1.02
904246	V4-025 E3	.26
904248	V4-025 E4	.4
904281	V4-029 C	2.18

904282	V4-029 E	3.56
904361	V4-037 C1	1.08
904363	V4-037 C3	1.09
904362	V4-037 E2	1.76
904364	V4-037 E4	1.78
904401	V4-041 C	2.14
904402	V4-041 E	3.49
904411	V4-042 C1	1.05
904413	V4-042 C2	1.13
904412	V4-042 E1	1.72
904414	V4-042 E2	1.84
904532	V4-054 E	3.21
904611	V4-062 C	.31
904612	V4-062 E	.49
904631	V4-064 C	.85
904632	V4-064 E	1.38
900462	V4-067 E	.35
228700	VNLD 10	5.7
901001	W1-003 C	.85
901002	W1-003 E	1.38
901011	W1-004 C	.85
901012	W1-004 E	1.38
901021	W1-005 C	.85
901022	W1-005 E	1.38
901031	W1-006 C	.85
901032	W1-006 E	1.38
901041	W1-008 C	.85
901042	W1-008 E	1.38
901051	W1-021 C	1.96
901052	W1-021 E	3.21
901061	W1-022 C	1.96
901062	W1-022 E	3.21
901071	W1-023 C	1.96
901072	W1-023 E	3.21
901082	W1-024 E	.17
901102	W1-032 E	.12
901141	W1-048 C	.52
901142	W1-048 E	.85
901191	W1-068 C	2.08
901192	W1-068 E	3.39
901201	W1-070 C	.85
901202	W1-070 E	1.38
901271	W1-083 C	.02
901272	W1-083 E	1.27

901281	W1-085 C	1.87
901282	W1-085 E	3.05
901291	W1-086 C	1.87
901292	W1-086 E	3.05
901301	W1-087 C	1.87
901302	W1-087 E	3.05
901311	W1-088 C	1.87
901312	W1-088 E	3.05
901321	W1-089 C	1.71
901322	W1-089 E	2.82
901331	W1-090 C OP1	1.79
901332	W1-090 E OP1	2.95
901422	W1-113 E	.31
901461	W1-117 C	1.91
901462	W1-117 E	3.12
901471	W1-118 C	1.91
901472	W1-118 E	3.12
901482	W1-119 E	1.65
901492	W1-120 E	1.83
901502	W1-121 E	.55
901522	W1-124 E	.73
901552	W1-129 E	.47
901561	W1-130 C	.98
901562	W1-130 E	1.6
902211	W2-019 C	.35
902212	W2-019 E	.56
902262	W2-026 E	.46
902292	W2-030 E	1.37
902301	W2-035 C	1.61
902302	W2-035 E	2.69
902321	W2-039	15.47
902341	W2-047 C	1.12
902342	W2-047 E	1.83
902392	W2-056 E	1.74
902412	W2-060 E	2.65
902432	W2-071 E	.49
902452	W2-074 E	.08
902482	W2-078 E	.36
902552	W2-088 E	.72
902562	W2-090 E	3.17
902621	W2-101 C	2.09
902622	W2-101 E	3.4
902632	W2-102 E	1.11
903251	W3-009 C	.99

903252	W3-009 E	1.62
903292	W3-025 E	.3
903302	W3-026 E	.66
903311	W3-028 C	6.81
903312	W3-028 E	45.85
903341	W3-032A 1	17.31
903351	W3-032A 2	17.31
903381	W3-033	1.66
903402	W3-041 E	1.32
903422	W3-045 E	.14
903471	W3-048	7.32
903481	W3-054AC	1.38
903482	W3-054AE	9.22
903492	W3-057 E	3.11
903501	W3-058 C	.87
903502	W3-058 E	1.41
903582	W3-078 E	.51
903592	W3-079 E	.79
903602	W3-080 E	2.65
903652	W3-101 E	.49
903722	W3-120 E	1.51
903732	W3-124 E	.44
903891	W3-157 C	.17
903892	W3-157 E	.28
903902	W3-158 E	.71
903912	W3-159 E	.83
903921	W3-160 C	.42
903922	W3-160 E	.69
903951	W3-174	55.44
903961	W3-175	106.29
905112	W4-011 E	.85
905131	W4-015 C	49.23
905141	W4-016	123.06
905161	W4-018 C	1.05
905162	W4-018 E	1.72
905181	W4-021	40.77
905211	W4-025 C	.4
905212	W4-025 E	.67
905221	W4-027 C	.77
905222	W4-027 E	1.26
905232	W4-029 E	.48
905301	W4-040 C	1.1
905302	W4-040 E	1.79
905331	W4-045 C	.49

905332	W4-045 E	.81
905391	W4-063 C	.14
905392	W4-063 E	.97
905432	W4-072 E	.64
905482	W4-085 E	.48
905512	W4-089 E	.49
905522	W4-090 E	.49
905562	W4-103 E	1.09
907031	X1-021 C	.02
907032	X1-021 E	1.29
907052	X1-032 E	.45
907082	X1-037 E	.81
907101	X1-039	.22
907132	X1-043 E	.52
907162	X1-049 E	.13
907202	X1-054 E	1.32
907222	X1-066 E	.23
907252	X1-070 E	.66
907261	X1-071 C	.
907262	X1-071 E	.3
907291	X1-074	32.76
907351	X1-085 C	.2
907352	X1-085 E	.32
907401	X1-096 C	2.18
907402	X1-096 E	14.56
907472	X1-110 E	.46
909032	X2-013 E	.77
909091	X2-027 C OP1	.21
909092	X2-027 E OP1	.34
909101	X2-028 C OP1	.31
909102	X2-028 E OP1	.51
909122	X2-033 E	.14
909212	X2-059 E	.64
909231	X2-066	34.44
909241	X2-067	34.63
909312	X2-088 E	.1
910562	X3-007 E	.29
910571	X3-008 C	.84
910572	X3-008 E	1.38
910591	X3-015 C	.82
910592	X3-015 E	1.34
910671	X3-040 C	.44
910672	X3-040 E	2.91
910681	X3-041 C	.64

910682	X3-041 E	1.03
910692	X3-043 E	1.9
910821	X3-066 C	.24
910822	X3-066 E	.4
910841	X3-070	.23
910852	X3-071 E	.69
910862	X3-075 E	1.31
910882	X3-077 E	.69
910902	X3-081 E	-.11
912032	X4-004 E	2.19
912101	X4-015 C	.29
912102	X4-015 E	.47
912121	X4-017 C	.85
912122	X4-017 E	1.38
912171	X4-027-CT1	2.31
912172	X4-027-CT2	2.31
912173	X4-027-CT3	2.31
912182	X4-031 E	.16
912232	X4-040 E	.22
912271	X4-045 E	.12
913041	Y1-008 C	.72
913042	Y1-008 E	4.85
913362	Y1-057 E	.34
913502	Y1-075 E	.44
913511	Y1-077	16.58
913531	Y1-079 C OP1	.41
913532	Y1-079 E OP1	.67
913541	Y1-080 C	.14
913542	Y1-080 E	.23
914271	Y2-078	1.97
914281	Y2-079	19.72
914301	Y2-081 C	.65
914302	Y2-081 E	1.06
914451	Y2-102	54.02
914481	Y2-105	20.97

Appendix 6

Bus Number	Bus Name	Full Contribution
228102	BLE#2 ST	.41
228200	CARL#1CT	.15
228201	CARL#2CT	.15
228251	CARLLS#4	.87
228309	CCLP NUG	1.55
213400	COVANTA DELA	.5
228202	CUMB CT	.26
228301	D/W 1 ST	16.92
228302	D/W 6 ST	17.36
219230	EAGLE P	.2
219120	EAGLE PT	1.61
227881	GRENWCHG	.01
228304	LOGAN	1.79
228334	MANNMILG	.04
228400	MICK 1CT	.43
228104	MID#3 CT	.1
228105	MID1&2CT	.11
227807	MO AV B	2.
228203	P-006	.71
228307	PCLP GT	.43
228306	PCLP STM	.43
295841	Q-090 2	6.26
228343	QUINTN#1	.43
291413	S-043	.06
291017	S-107 1CT	55.32
291019	S-107 1ST	110.64
291018	S-107 2CT	55.32
291065	S121	.22
228206	SHRMN CT	.26
292183	T-054	.02
292187	T-055	.05
292200	T-059	.11
292512	T-146 C	8.04
885600	T20SOLAR E	-.21
292815	U1-056 C	4.88
292827	U1-066 1CT	.04
292828	U1-066 2CT	.04
292966	U2-045 C	.26
291995	U4-036 C	.02
292062	V1-021 C	.
292104	V1-030 C6	.01

297005	V2-003 C	.18
297082	V2-035 C	.14
297089	V2-041 C	.01
297103	V2-046 C	.03
904081	V4-009 C	.02
904221	V4-023 C1	1.29
904223	V4-023 C2	.17
904231	V4-024 C1	.83
904233	V4-024 C2	.82
904241	V4-025 C1	1.08
904243	V4-025 C2	.5
904245	V4-025 C3	.11
904247	V4-025 C4	.18
904281	V4-029 C	1.87
904361	V4-037 C1	.88
904363	V4-037 C3	.93
904401	V4-041 C	1.3
904411	V4-042 C1	.65
904413	V4-042 C2	.84
904531	V4-054 C	.03
904611	V4-062 C	.23
228471	VALERO	.18
228472	VALERO	.09
228473	VALERO	.09
228484	VALERO	.11
228700	VNLD 10	3.52
901051	W1-021 C	1.37
901061	W1-022 C	1.37
901071	W1-023 C	1.37
901121	W1-039	.08
901141	W1-048 C	.41
901191	W1-068 C	1.62
901281	W1-085 C	1.18
901291	W1-086 C	1.18
901301	W1-087 C	1.18
901311	W1-088 C	1.18
901321	W1-089 C	1.14
901331	W1-090 C OP1	.62
901461	W1-117 C	1.27
901471	W1-118 C	1.27
901561	W1-130 C	.6
902301	W2-035 C	1.22
902321	W2-039	9.73
902341	W2-047 C	1.07

902621	W2-101 C	1.64
903251	W3-009 C	.71
903381	W3-033	.75
903501	W3-058 C	.47
903651	W3-101 C	.
903891	W3-157 C	.13
903951	W3-174	52.37
903961	W3-175	100.4
905131	W4-015 C	57.87
905141	W4-016	144.68
905161	W4-018 C	.65
905221	W4-027 C	.47
905301	W4-040 C	.82
905391	W4-063 C	.07
228702	WEST CT	.09
907101	X1-039	.22
909091	X2-027 C OP1	.16
909101	X2-028 C OP1	.25
912171	X4-027-CT1	.59
912172	X4-027-CT2	.59
912173	X4-027-CT3	.59
913511	Y1-077	8.49
914451	Y2-102	41.88
914481	Y2-105	21.26

Appendix 7

Bus Number	Bus Name	Full Contribution
228102	BLE#2 ST	.4
228200	CARL#1CT	.14
228201	CARL#2CT	.15
228251	CARLLS#4	.85
228309	CCLP NUG	1.51
213400	COVANTA DELA	.48
228202	CUMB CT	.25
228301	D/W 1 ST	16.43
228302	D/W 6 ST	16.85
219230	EAGLE P	.34
219120	EAGLE PT	2.73
227881	GRENWCHG	.01
228304	LOGAN	1.74
228334	MANNMILG	.04
228400	MICK 1CT	.42
228104	MID#3 CT	.1
228105	MID1&2CT	.11
227807	MO AV B	1.94
228203	P-006	.69
228307	PCLP GT	.41
228306	PCLP STM	.41
295841	Q-090 2	6.09
228343	QUINTN#1	.42
291413	S-043	.06
291017	S-107 1CT	53.76
291019	S-107 1ST	107.53
291018	S-107 2CT	53.76
291065	S121	.21
228206	SHRMN CT	.26
292183	T-054	.02
292187	T-055	.05
292200	T-059	.1
292512	T-146 C	7.8
885600	T20SOLAR E	-.21
292815	U1-056 C	4.73
292827	U1-066 1CT	.04
292828	U1-066 2CT	.04
292966	U2-045 C	.25
291995	U4-036 C	.02
292062	V1-021 C	.
292104	V1-030 C6	.01

297005	V2-003 C	.17
297082	V2-035 C	.14
297089	V2-041 C	.
297103	V2-046 C	.03
904081	V4-009 C	.02
904221	V4-023 C1	1.25
904223	V4-023 C2	.17
904231	V4-024 C1	.81
904233	V4-024 C2	.8
904241	V4-025 C1	1.05
904243	V4-025 C2	.48
904245	V4-025 C3	.11
904247	V4-025 C4	.18
904281	V4-029 C	1.81
904361	V4-037 C1	.86
904363	V4-037 C3	.91
904401	V4-041 C	1.26
904411	V4-042 C1	.63
904413	V4-042 C2	.82
904531	V4-054 C	.03
904611	V4-062 C	.23
228471	VALERO	.17
228472	VALERO	.08
228473	VALERO	.08
228484	VALERO	.1
228700	VNLD 10	3.42
901051	W1-021 C	1.33
901061	W1-022 C	1.33
901071	W1-023 C	1.33
901121	W1-039	.08
901141	W1-048 C	.4
901191	W1-068 C	1.57
901281	W1-085 C	1.15
901291	W1-086 C	1.15
901301	W1-087 C	1.15
901311	W1-088 C	1.15
901321	W1-089 C	1.1
901331	W1-090 C OP1	.6
901461	W1-117 C	1.23
901471	W1-118 C	1.23
901561	W1-130 C	.58
902301	W2-035 C	1.18
902321	W2-039	9.44
902341	W2-047 C	1.04

902621	W2-101 C	1.6
903251	W3-009 C	.69
903381	W3-033	.72
903501	W3-058 C	.46
903651	W3-101 C	.
903891	W3-157 C	.13
903951	W3-174	50.87
903961	W3-175	97.53
905131	W4-015 C	56.24
905141	W4-016	140.61
905161	W4-018 C	.63
905221	W4-027 C	.46
905301	W4-040 C	.79
905391	W4-063 C	.06
228702	WEST CT	.09
907101	X1-039	.38
909091	X2-027 C OP1	.16
909101	X2-028 C OP1	.24
913511	Y1-077	8.23
914451	Y2-102	40.66
914481	Y2-105	36.11

Appendix 8

Bus Number	Bus Name	Full Contribution
228102	BLE#2 ST	.4
228200	CARL#1CT	.14
228201	CARL#2CT	.15
228251	CARLLS#4	.85
228309	CCLP NUG	1.51
213400	COVANTA DELA	.48
228202	CUMB CT	.25
228301	D/W 1 ST	16.43
228302	D/W 6 ST	16.85
219230	EAGLE P	.34
219120	EAGLE PT	2.73
227881	GRENWCHG	.01
228304	LOGAN	1.74
228334	MANNMILG	.04
228400	MICK 1CT	.42
228104	MID#3 CT	.1
228105	MID1&2CT	.11
227807	MO AV B	1.94
228203	P-006	.69
228307	PCLP GT	.41
228306	PCLP STM	.41
295841	Q-090 2	6.09
228343	QUINTN#1	.42
291413	S-043	.06
291017	S-107 1CT	53.76
291019	S-107 1ST	107.53
291018	S-107 2CT	53.76
291065	S121	.21
228206	SHRMN CT	.26
292183	T-054	.02
292187	T-055	.05
292200	T-059	.1
292512	T-146 C	7.8
885600	T20SOLAR E	-.21
292815	U1-056 C	4.73
292827	U1-066 1CT	.04
292828	U1-066 2CT	.04
292966	U2-045 C	.25
291995	U4-036 C	.02
292062	V1-021 C	.
292104	V1-030 C6	.01

297005	V2-003 C	.17
297082	V2-035 C	.14
297089	V2-041 C	.
297103	V2-046 C	.03
904081	V4-009 C	.02
904221	V4-023 C1	1.25
904223	V4-023 C2	.17
904231	V4-024 C1	.81
904233	V4-024 C2	.8
904241	V4-025 C1	1.05
904243	V4-025 C2	.48
904245	V4-025 C3	.11
904247	V4-025 C4	.18
904281	V4-029 C	1.81
904361	V4-037 C1	.86
904363	V4-037 C3	.91
904401	V4-041 C	1.26
904411	V4-042 C1	.63
904413	V4-042 C2	.82
904531	V4-054 C	.03
904611	V4-062 C	.23
228471	VALERO	.17
228472	VALERO	.08
228473	VALERO	.08
228484	VALERO	.1
228700	VNLD 10	3.42
901051	W1-021 C	1.33
901061	W1-022 C	1.33
901071	W1-023 C	1.33
901121	W1-039	.08
901141	W1-048 C	.4
901191	W1-068 C	1.57
901281	W1-085 C	1.15
901291	W1-086 C	1.15
901301	W1-087 C	1.15
901311	W1-088 C	1.15
901321	W1-089 C	1.1
901331	W1-090 C OP1	.6
901461	W1-117 C	1.23
901471	W1-118 C	1.23
901561	W1-130 C	.58
902301	W2-035 C	1.18
902321	W2-039	9.44
902341	W2-047 C	1.04

902621	W2-101 C	1.6
903251	W3-009 C	.69
903381	W3-033	.72
903501	W3-058 C	.46
903651	W3-101 C	.
903891	W3-157 C	.13
903951	W3-174	50.87
903961	W3-175	97.53
905131	W4-015 C	56.24
905141	W4-016	140.61
905161	W4-018 C	.63
905221	W4-027 C	.46
905301	W4-040 C	.79
905391	W4-063 C	.06
228702	WEST CT	.09
907101	X1-039	.38
909091	X2-027 C OP1	.16
909101	X2-028 C OP1	.24
913511	Y1-077	8.23
914451	Y2-102	40.66
914481	Y2-105	36.11

Appendix 9

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.63
228200	CARL#1CT	.06
228201	CARL#2CT	.07
228251	CARLLS#4	.38
228309	CCLP NUG	.55
213400	COVANTA DELA	.16
228301	D/W 1 ST	6.92
228302	D/W 6 ST	7.1
219230	EAGLE P	.08
219120	EAGLE PT	.67
219128	GLOUCSTR	.16
227881	GRENWCHG	.
228304	LOGAN	.6
228334	MANNMILG	.02
228400	MICK 1CT	.15
227807	MO AV B	1.15
219137	NAT PARK	3.98
228307	PCLP GT	.14
228306	PCLP STM	.14
295841	Q-090 2	2.02
228343	QUINTN#1	.17
291413	S-043	.03
291017	S-107 1CT	17.85
291019	S-107 1ST	35.71
291018	S-107 2CT	17.85
291065	S121	.1
292200	T-059	.04
292512	T-146 C	4.24
885600	T20SOLAR E	-.13
292815	U1-056 C	2.72
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.15
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.09
297082	V2-035 C	.06
297103	V2-046 C	.01
904081	V4-009 C	.01
904221	V4-023 C1	.56
904223	V4-023 C2	.07

904231	V4-024 C1	.34
904233	V4-024 C2	.33
904241	V4-025 C1	.4
904243	V4-025 C2	.2
904245	V4-025 C3	.05
904247	V4-025 C4	.08
904281	V4-029 C	.72
904361	V4-037 C1	.35
904363	V4-037 C3	.36
904401	V4-041 C	.62
904411	V4-042 C1	.31
904413	V4-042 C2	.35
904531	V4-054 C	.01
904611	V4-062 C	.1
228471	VALERO	.06
228472	VALERO	.03
228473	VALERO	.03
228484	VALERO	.04
228700	VNLD 10	1.65
901051	W1-021 C	.6
901061	W1-022 C	.6
901071	W1-023 C	.6
901121	W1-039	.03
901141	W1-048 C	.17
901191	W1-068 C	.66
901271	W1-083 C	.01
901281	W1-085 C	.55
901291	W1-086 C	.55
901301	W1-087 C	.55
901311	W1-088 C	.55
901321	W1-089 C	.51
901331	W1-090 C OP1	.41
901461	W1-117 C	.57
901471	W1-118 C	.57
901561	W1-130 C	.29
902301	W2-035 C	.5
902321	W2-039	4.5
902341	W2-047 C	.39
902621	W2-101 C	.66
903251	W3-009 C	.3
903381	W3-033	.43
903501	W3-058 C	.24
903651	W3-101 C	.
903891	W3-157 C	.05

903951	W3-174	18.97
903961	W3-175	36.37
905131	W4-015 C	18.68
905141	W4-016	46.69
905161	W4-018 C	.31
905221	W4-027 C	.22
905301	W4-040 C	.34
905391	W4-063 C	.04
907031	X1-021 C	.01
907101	X1-039	.09
909091	X2-027 C OP1	.07
909101	X2-028 C OP1	.1
913511	Y1-077	4.48
914301	Y2-081 C	.27
914451	Y2-102	17.13
914481	Y2-105	8.84

Appendix 10

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.72
228200	CARL#1CT	.07
228201	CARL#2CT	.07
228251	CARLLS#4	.43
228309	CCLP NUG	.63
213400	COVANTA DELA	.18
228301	D/W 1 ST	7.87
228302	D/W 6 ST	8.07
219230	EAGLE P	.1
219120	EAGLE PT	.76
219128	GLOUCSTR	.18
227881	GRENWCHG	.01
228304	LOGAN	.68
228334	MANNMILG	.02
228400	MICK 1CT	.17
227807	MO AV B	1.3
219137	NAT PARK	4.52
228307	PCLP GT	.16
228306	PCLP STM	.16
295841	Q-090 2	2.3
228343	QUINTN#1	.2
291413	S-043	.03
291017	S-107 1CT	20.29
291019	S-107 1ST	40.59
291018	S-107 2CT	20.29
291065	S121	.12
292200	T-059	.04
292512	T-146 C	4.82
885600	T20SOLAR E	-.14
292815	U1-056 C	3.09
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.17
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.11
297082	V2-035 C	.07
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.64
904223	V4-023 C2	.08

904231	V4-024 C1	.38
904233	V4-024 C2	.38
904241	V4-025 C1	.45
904243	V4-025 C2	.23
904245	V4-025 C3	.05
904247	V4-025 C4	.09
904281	V4-029 C	.82
904361	V4-037 C1	.4
904363	V4-037 C3	.41
904401	V4-041 C	.7
904411	V4-042 C1	.35
904413	V4-042 C2	.4
904531	V4-054 C	.02
904611	V4-062 C	.11
228471	VALERO	.07
228472	VALERO	.03
228473	VALERO	.03
228484	VALERO	.04
228700	VNLD 10	1.88
901051	W1-021 C	.68
901061	W1-022 C	.68
901071	W1-023 C	.68
901121	W1-039	.03
901141	W1-048 C	.19
901191	W1-068 C	.75
901271	W1-083 C	.01
901281	W1-085 C	.62
901291	W1-086 C	.62
901301	W1-087 C	.62
901311	W1-088 C	.62
901321	W1-089 C	.58
901331	W1-090 C OP1	.47
901461	W1-117 C	.65
901471	W1-118 C	.65
901561	W1-130 C	.32
902301	W2-035 C	.57
902321	W2-039	5.12
902341	W2-047 C	.44
902621	W2-101 C	.75
903251	W3-009 C	.35
903381	W3-033	.49
903501	W3-058 C	.27
903651	W3-101 C	.
903891	W3-157 C	.06

903951	W3-174	21.56
903961	W3-175	41.34
905131	W4-015 C	21.23
905141	W4-016	53.08
905161	W4-018 C	.35
905221	W4-027 C	.26
905301	W4-040 C	.38
905391	W4-063 C	.04
907031	X1-021 C	.01
907101	X1-039	.11
909091	X2-027 C OP1	.08
909101	X2-028 C OP1	.11
913511	Y1-077	5.09
914301	Y2-081 C	.31
914451	Y2-102	19.47
914481	Y2-105	10.05

Appendix 11

Bus Number	Bus Name	Full Contribution
228251	CARLLS#4	.94
228309	CCLP NUG	1.56
228000	CEDR#1CT	2.39
228001	CEDR#2CT	1.15
213400	COVANTA DELA	.48
228301	D/W 1 ST	17.92
228302	D/W 6 ST	18.37
219230	EAGLE P	.2
219120	EAGLE PT	1.56
227881	GRENWCHG	.01
228304	LOGAN	1.76
228400	MICK 1CT	.43
227807	MO AV B	2.45
228307	PCLP GT	.42
228306	PCLP STM	.42
295841	Q-090 2	6.09
228343	QUINTN#1	.46
291017	S-107 1CT	53.76
291019	S-107 1ST	107.52
291018	S-107 2CT	53.76
292200	T-059	.11
292512	T-146 C	9.48
292513	T-146 E	37.91
885600	T20SOLAR E	-.26
292815	U1-056 C	5.89
292816	U1-056 E	39.42
292966	U2-045 C	.32
292967	U2-045 E	2.13
291995	U4-036 C	.02
291996	U4-036 E	1.32
292063	V1-021 E	.04
292104	V1-030 C6	.01
292105	V1-030 E6	.38
297005	V2-003 C	.21
297006	V2-003 E	.34
297082	V2-035 C	.16
297083	V2-035 E	.26
297090	V2-041 E	.4
297104	V2-046 E	2.98
297106	V2-047 E	.21
904082	V4-009 E	1.25

904221	V4-023 C1	1.4
904223	V4-023 C2	.18
904222	V4-023 E1	2.31
904224	V4-023 E2	.27
904231	V4-024 C1	.88
904233	V4-024 C2	.87
904232	V4-024 E1	1.43
904234	V4-024 E2	1.41
904241	V4-025 C1	1.1
904243	V4-025 C2	.52
904245	V4-025 C3	.12
904247	V4-025 C4	.19
904242	V4-025 E1	1.79
904244	V4-025 E2	.84
904246	V4-025 E3	.2
904248	V4-025 E4	.32
904281	V4-029 C	1.93
904282	V4-029 E	3.15
904361	V4-037 C1	.92
904363	V4-037 C3	.96
904362	V4-037 E2	1.51
904364	V4-037 E4	1.57
904401	V4-041 C	1.46
904402	V4-041 E	2.38
904411	V4-042 C1	.73
904413	V4-042 C2	.9
904412	V4-042 E1	1.19
904414	V4-042 E2	1.46
904532	V4-054 E	2.43
904611	V4-062 C	.25
904612	V4-062 E	.4
900462	V4-067 E	.18
228471	VALERO	.18
228472	VALERO	.09
228473	VALERO	.09
228484	VALERO	.1
228700	VNLD 10	3.94
901051	W1-021 C	1.49
901052	W1-021 E	2.43
901061	W1-022 C	1.49
901062	W1-022 E	2.43
901071	W1-023 C	1.49
901072	W1-023 E	2.43
901121	W1-039	.08

901141	W1-048 C	.43
901142	W1-048 E	.71
901191	W1-068 C	1.71
901192	W1-068 E	2.79
901281	W1-085 C	1.32
901282	W1-085 E	2.15
901291	W1-086 C	1.32
901292	W1-086 E	2.15
901301	W1-087 C	1.32
901302	W1-087 E	2.15
901311	W1-088 C	1.32
901312	W1-088 E	2.15
901321	W1-089 C	1.25
901322	W1-089 E	2.05
901331	W1-090 C OP1	.82
901332	W1-090 E OP1	1.34
901461	W1-117 C	1.39
901462	W1-117 E	2.27
901471	W1-118 C	1.39
901472	W1-118 E	2.27
901561	W1-130 C	.68
901562	W1-130 E	1.1
902262	W2-026 E	.31
902292	W2-030 E	.75
902301	W2-035 C	1.29
902302	W2-035 E	2.16
902321	W2-039	10.83
902341	W2-047 C	1.08
902342	W2-047 E	1.76
902621	W2-101 C	1.73
902622	W2-101 E	2.82
903251	W3-009 C	.77
903252	W3-009 E	1.25
903381	W3-033	.91
903471	W3-048	2.93
903501	W3-058 C	.55
903502	W3-058 E	.89
903652	W3-101 E	.34
903891	W3-157 C	.14
903892	W3-157 E	.23
903951	W3-174	52.98
903961	W3-175	101.57
905131	W4-015 C	56.24
905141	W4-016	140.6

905161	W4-018 C	.73
905162	W4-018 E	1.19
905221	W4-027 C	.53
905222	W4-027 E	.87
905301	W4-040 C	.87
905302	W4-040 E	1.42
905391	W4-063 C	.08
905392	W4-063 E	.53
905512	W4-089 E	.34
905522	W4-090 E	.34
907101	X1-039	.22
907222	X1-066 E	.13
907472	X1-110 E	.29
909032	X2-013 E	.83
909091	X2-027 C OP1	.17
909092	X2-027 E OP1	.28
909101	X2-028 C OP1	.26
909102	X2-028 E OP1	.42
912032	X4-004 E	-1.15
913511	Y1-077	10.
914301	Y2-081 C	.12
914302	Y2-081 E	.19
914451	Y2-102	44.33
914481	Y2-105	20.66

Appendix 12

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.72
228200	CARL#1CT	.07
228201	CARL#2CT	.07
228251	CARLLS#4	.43
228309	CCLP NUG	.63
213400	COVANTA DELA	.18
228301	D/W 1 ST	7.9
228302	D/W 6 ST	8.1
219230	EAGLE P	.1
219120	EAGLE PT	.76
219128	GLOUCSTR	.18
227881	GRENWCHG	.01
228304	LOGAN	.68
228334	MANNMILG	.02
228400	MICK 1CT	.17
227807	MO AV B	1.31
219137	NAT PARK	4.54
228307	PCLP GT	.17
228306	PCLP STM	.17
295841	Q-090 2	2.31
228343	QUINTN#1	.2
291413	S-043	.03
291017	S-107 1CT	20.37
291019	S-107 1ST	40.74
291018	S-107 2CT	20.37
291065	S121	.12
292200	T-059	.04
292512	T-146 C	4.84
885600	T20SOLAR E	-.14
292815	U1-056 C	3.1
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.17
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.11
297082	V2-035 C	.07
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.64
904223	V4-023 C2	.08

904231	V4-024 C1	.38
904233	V4-024 C2	.38
904241	V4-025 C1	.45
904243	V4-025 C2	.23
904245	V4-025 C3	.05
904247	V4-025 C4	.09
904281	V4-029 C	.82
904361	V4-037 C1	.4
904363	V4-037 C3	.41
904401	V4-041 C	.7
904411	V4-042 C1	.35
904413	V4-042 C2	.4
904531	V4-054 C	.02
904611	V4-062 C	.11
228471	VALERO	.07
228472	VALERO	.03
228473	VALERO	.03
228484	VALERO	.04
228700	VNLD 10	1.88
901051	W1-021 C	.68
901061	W1-022 C	.68
901071	W1-023 C	.68
901121	W1-039	.03
901141	W1-048 C	.19
901191	W1-068 C	.75
901271	W1-083 C	.01
901281	W1-085 C	.62
901291	W1-086 C	.62
901301	W1-087 C	.62
901311	W1-088 C	.62
901321	W1-089 C	.58
901331	W1-090 C OP1	.47
901461	W1-117 C	.65
901471	W1-118 C	.65
901561	W1-130 C	.33
902301	W2-035 C	.57
902321	W2-039	5.14
902341	W2-047 C	.44
902621	W2-101 C	.76
903251	W3-009 C	.35
903381	W3-033	.49
903501	W3-058 C	.27
903651	W3-101 C	.
903891	W3-157 C	.06

903951	W3-174	21.64
903961	W3-175	41.49
905131	W4-015 C	21.31
905141	W4-016	53.27
905161	W4-018 C	.35
905221	W4-027 C	.26
905301	W4-040 C	.39
905391	W4-063 C	.04
907031	X1-021 C	.01
907101	X1-039	.11
909091	X2-027 C OP1	.08
909101	X2-028 C OP1	.11
913511	Y1-077	5.11
914301	Y2-081 C	.31
914451	Y2-102	19.54
914481	Y2-105	10.08

Appendix 13

Bus Number	Bus Name	Full Contribution
219221	BRL12CT1	.29
219222	BRL12CT2	.29
219223	BRL12CT3	.29
219224	BRL12CT4	.29
219127	BURLNG11	1.26
219103	BURLNGT8	6.39
219124	BURLNGT9	55.97
219156	CAMD CGN	1.28
228251	CARLLS#4	1.04
228000	CEDR#1CT	6.71
228001	CEDR#2CT	3.23
228301	D/W 1 ST	18.36
228302	D/W 6 ST	18.83
219230	EAGLE P	.17
219120	EAGLE PT	1.38
219128	GLOUCSTR	.32
219134	MERCER 3	24.07
227807	MO AV B	3.88
219137	NAT PARK	8.1
295841	Q-090 2	4.35
228343	QUINTN#1	.46
295952	R-011	23.15
213918	RICHMD91	.51
213919	RICHMD92	.51
291017	S-107 1CT	38.38
291019	S-107 1ST	76.76
291018	S-107 2CT	38.38
292512	T-146 C	13.52
885600	T20SOLAR E	.46
292815	U1-056 C	8.97
292966	U2-045 C	.5
293062	U2-076	2.08
291995	U4-036 C	.01
292104	V1-030 C6	.
292088	V1-030 CB	.02
297005	V2-003 C	.3
297082	V2-035 C	.18
904221	V4-023 C1	1.57
904223	V4-023 C2	.18
904231	V4-024 C1	.89
904233	V4-024 C2	.87

904241	V4-025 C1	.96
904243	V4-025 C2	.53
904245	V4-025 C3	.13
904247	V4-025 C4	.2
904281	V4-029 C	1.82
904361	V4-037 C1	.9
904363	V4-037 C3	.91
904401	V4-041 C	1.84
904411	V4-042 C1	.9
904413	V4-042 C2	.96
904611	V4-062 C	.26
228700	VNLD 10	4.82
901051	W1-021 C	1.65
901061	W1-022 C	1.65
901071	W1-023 C	1.65
901141	W1-048 C	.44
901191	W1-068 C	1.74
901271	W1-083 C	.01
901281	W1-085 C	1.58
901291	W1-086 C	1.58
901301	W1-087 C	1.58
901311	W1-088 C	1.58
901321	W1-089 C	1.44
901331	W1-090 C OP1	1.6
901461	W1-117 C	1.61
901471	W1-118 C	1.61
901561	W1-130 C	.84
902181	W2-014	.02
902211	W2-019 C	.36
902301	W2-035 C	1.35
902321	W2-039	13.05
902341	W2-047 C	.93
902411	W2-060 C	.05
902621	W2-101 C	1.74
903251	W3-009 C	.84
903301	W3-026 C	.01
903311	W3-028 C	6.41
903381	W3-033	1.45
903401	W3-041 C	.03
903471	W3-048	5.51
903501	W3-058 C	.74
903601	W3-080 C	.05
903891	W3-157 C	.15
903951	W3-174	45.38

903961	W3-175	87.
905131	W4-015 C	40.15
905141	W4-016	100.38
905161	W4-018 C	.9
905181	W4-021	45.69
905211	W4-025 C	.41
905221	W4-027 C	.66
905301	W4-040 C	.93
905331	W4-045 C	.51
905391	W4-063 C	.13
907031	X1-021 C	.02
907101	X1-039	.19
907201	X1-054 C	.03
907241	X1-068	.52
907251	X1-070 C	.01
907261	X1-071 C	.
907351	X1-085 C	.21
909091	X2-027 C OP1	.17
909101	X2-028 C OP1	.26
912101	X4-015 C	.3
913511	Y1-077	14.26
914271	Y2-078	2.03
914281	Y2-079	20.31
914301	Y2-081 C	.58
914451	Y2-102	45.43
914481	Y2-105	18.18

Appendix 14

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.97
228200	CARL#1CT	.1
228201	CARL#2CT	.1
228251	CARLLS#4	.58
228309	CCLP NUG	.85
213400	COVANTA DELA	.24
228301	D/W 1 ST	10.66
228302	D/W 6 ST	10.93
219230	EAGLE P	.13
219120	EAGLE PT	1.03
219128	GLOUCSTR	.24
227881	GRENWCHG	.01
228304	LOGAN	.92
228334	MANNMILG	.03
228400	MICK 1CT	.23
227807	MO AV B	1.77
219137	NAT PARK	6.12
228307	PCLP GT	.22
228306	PCLP STM	.22
295841	Q-090 2	3.11
228343	QUINTN#1	.27
291413	S-043	.04
291017	S-107 1CT	27.49
291019	S-107 1ST	54.98
291018	S-107 2CT	27.49
291065	S121	.16
292200	T-059	.06
292512	T-146 C	6.54
885600	T20SOLAR E	-.19
292815	U1-056 C	4.18
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.23
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.14
297082	V2-035 C	.1
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.87
904223	V4-023 C2	.11

904231	V4-024 C1	.52
904233	V4-024 C2	.51
904241	V4-025 C1	.61
904243	V4-025 C2	.31
904245	V4-025 C3	.07
904247	V4-025 C4	.12
904281	V4-029 C	1.11
904361	V4-037 C1	.54
904363	V4-037 C3	.55
904401	V4-041 C	.95
904411	V4-042 C1	.47
904413	V4-042 C2	.54
904531	V4-054 C	.02
904611	V4-062 C	.15
228471	VALERO	.09
228472	VALERO	.05
228473	VALERO	.05
228484	VALERO	.06
228700	VNLD 10	2.54
901051	W1-021 C	.92
901061	W1-022 C	.92
901071	W1-023 C	.92
901121	W1-039	.04
901141	W1-048 C	.26
901191	W1-068 C	1.01
901271	W1-083 C	.01
901281	W1-085 C	.84
901291	W1-086 C	.84
901301	W1-087 C	.84
901311	W1-088 C	.84
901321	W1-089 C	.78
901331	W1-090 C OP1	.63
901461	W1-117 C	.87
901471	W1-118 C	.87
901561	W1-130 C	.44
902301	W2-035 C	.78
902321	W2-039	6.94
902341	W2-047 C	.59
902621	W2-101 C	1.02
903251	W3-009 C	.47
903381	W3-033	.66
903471	W3-048	2.54
903501	W3-058 C	.37
903651	W3-101 C	.

903891	W3-157 C	.08
903951	W3-174	29.21
903961	W3-175	56.01
905131	W4-015 C	28.76
905141	W4-016	71.9
905161	W4-018 C	.47
905221	W4-027 C	.35
905301	W4-040 C	.52
905391	W4-063 C	.06
907031	X1-021 C	.01
907101	X1-039	.14
909091	X2-027 C OP1	.1
909101	X2-028 C OP1	.15
913511	Y1-077	6.9
914301	Y2-081 C	.42
914451	Y2-102	26.38
914481	Y2-105	13.61

Appendix 15

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	1.2
228200	CARL#1CT	.12
228201	CARL#2CT	.12
228251	CARLLS#4	.72
228309	CCLP NUG	1.05
228000	CEDR#1CT	2.48
228001	CEDR#2CT	1.2
213400	COVANTA DELA	.3
228301	D/W 1 ST	13.18
228302	D/W 6 ST	13.52
219230	EAGLE P	.16
219120	EAGLE PT	1.27
219128	GLOUCSTR	.3
227881	GRENWCHG	.01
228304	LOGAN	1.14
228334	MANNMILG	.03
228400	MICK 1CT	.28
227807	MO AV B	2.18
219137	NAT PARK	7.58
228307	PCLP GT	.28
228306	PCLP STM	.28
295841	Q-090 2	3.85
228343	QUINTN#1	.33
291413	S-043	.05
291017	S-107 1CT	34.
291019	S-107 1ST	68.
291018	S-107 2CT	34.
291065	S121	.2
292200	T-059	.07
292512	T-146 C	8.08
885600	T20SOLAR E	-.24
292815	U1-056 C	5.17
292827	U1-066 1CT	.03
292828	U1-066 2CT	.03
292966	U2-045 C	.28
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.18
297082	V2-035 C	.12
297103	V2-046 C	.03
904081	V4-009 C	.01

904221	V4-023 C1	1.08
904223	V4-023 C2	.13
904231	V4-024 C1	.64
904233	V4-024 C2	.63
904241	V4-025 C1	.75
904243	V4-025 C2	.38
904245	V4-025 C3	.09
904247	V4-025 C4	.14
904281	V4-029 C	1.37
904361	V4-037 C1	.66
904363	V4-037 C3	.68
904401	V4-041 C	1.17
904411	V4-042 C1	.58
904413	V4-042 C2	.66
904531	V4-054 C	.03
904611	V4-062 C	.18
228471	VALERO	.12
228472	VALERO	.06
228473	VALERO	.06
228484	VALERO	.07
228700	VNLD 10	3.15
901051	W1-021 C	1.13
901061	W1-022 C	1.13
901071	W1-023 C	1.13
901121	W1-039	.05
901141	W1-048 C	.32
901191	W1-068 C	1.25
901271	W1-083 C	.01
901281	W1-085 C	1.04
901291	W1-086 C	1.04
901301	W1-087 C	1.04
901311	W1-088 C	1.04
901321	W1-089 C	.97
901331	W1-090 C OP1	.78
901461	W1-117 C	1.08
901471	W1-118 C	1.08
901561	W1-130 C	.54
902301	W2-035 C	.96
902321	W2-039	8.58
902341	W2-047 C	.73
902621	W2-101 C	1.26
903251	W3-009 C	.58
903381	W3-033	.81
903471	W3-048	3.14

903501	W3-058 C	.46
903651	W3-101 C	.
903891	W3-157 C	.1
903951	W3-174	36.12
903961	W3-175	69.26
905131	W4-015 C	35.57
905141	W4-016	88.92
905161	W4-018 C	.58
905221	W4-027 C	.43
905301	W4-040 C	.64
905391	W4-063 C	.07
907031	X1-021 C	.01
907101	X1-039	.18
909091	X2-027 C OP1	.13
909101	X2-028 C OP1	.19
913511	Y1-077	8.53
914301	Y2-081 C	.52
914451	Y2-102	32.62
914481	Y2-105	16.83

Appendix 16

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	.72
228200	CARL#1CT	.07
228201	CARL#2CT	.07
228251	CARLLS#4	.43
228309	CCLP NUG	.63
213400	COVANTA DELA	.18
228301	D/W 1 ST	7.9
228302	D/W 6 ST	8.11
219230	EAGLE P	.1
219120	EAGLE PT	.76
219128	GLOUCSTR	.18
227881	GRENWCHG	.01
228304	LOGAN	.68
228334	MANNMILG	.02
228400	MICK 1CT	.17
227807	MO AV B	1.31
219137	NAT PARK	4.54
228307	PCLP GT	.17
228306	PCLP STM	.17
295841	Q-090 2	2.31
228343	QUINTN#1	.2
291413	S-043	.03
291017	S-107 1CT	20.38
291019	S-107 1ST	40.77
291018	S-107 2CT	20.38
291065	S121	.12
292200	T-059	.04
292512	T-146 C	4.85
885600	T20SOLAR E	-.14
292815	U1-056 C	3.1
292827	U1-066 1CT	.02
292828	U1-066 2CT	.02
292966	U2-045 C	.17
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.11
297082	V2-035 C	.07
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.64
904223	V4-023 C2	.08

904231	V4-024 C1	.38
904233	V4-024 C2	.38
904241	V4-025 C1	.45
904243	V4-025 C2	.23
904245	V4-025 C3	.05
904247	V4-025 C4	.09
904281	V4-029 C	.82
904361	V4-037 C1	.4
904363	V4-037 C3	.41
904401	V4-041 C	.7
904411	V4-042 C1	.35
904413	V4-042 C2	.4
904531	V4-054 C	.02
904611	V4-062 C	.11
228471	VALERO	.07
228472	VALERO	.03
228473	VALERO	.03
228484	VALERO	.04
228700	VNLD 10	1.89
901051	W1-021 C	.68
901061	W1-022 C	.68
901071	W1-023 C	.68
901121	W1-039	.03
901141	W1-048 C	.19
901191	W1-068 C	.75
901271	W1-083 C	.01
901281	W1-085 C	.62
901291	W1-086 C	.62
901301	W1-087 C	.62
901311	W1-088 C	.62
901321	W1-089 C	.58
901331	W1-090 C OP1	.47
901461	W1-117 C	.65
901471	W1-118 C	.65
901561	W1-130 C	.33
902301	W2-035 C	.57
902321	W2-039	5.14
902341	W2-047 C	.44
902621	W2-101 C	.76
903251	W3-009 C	.35
903381	W3-033	.49
903501	W3-058 C	.27
903651	W3-101 C	.
903891	W3-157 C	.06

903951	W3-174	21.66
903961	W3-175	41.52
905131	W4-015 C	21.32
905141	W4-016	53.31
905161	W4-018 C	.35
905221	W4-027 C	.26
905301	W4-040 C	.39
905391	W4-063 C	.04
907031	X1-021 C	.01
907101	X1-039	.11
909091	X2-027 C OP1	.08
909101	X2-028 C OP1	.11
913511	Y1-077	5.11
914301	Y2-081 C	.31
914451	Y2-102	19.55
914481	Y2-105	10.09

Appendix 17

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	1.07
228200	CARL#1CT	.11
228201	CARL#2CT	.11
228251	CARLLS#4	.64
228309	CCLP NUG	.94
213400	COVANTA DELA	.27
228301	D/W 1 ST	11.76
228302	D/W 6 ST	12.07
219230	EAGLE P	.14
219120	EAGLE PT	1.14
219128	GLOUCSTR	.27
227881	GRENWCHG	.01
228304	LOGAN	1.02
228334	MANNMILG	.03
228400	MICK 1CT	.25
227807	MO AV B	1.95
219137	NAT PARK	6.76
228307	PCLP GT	.25
228306	PCLP STM	.25
295841	Q-090 2	3.44
228343	QUINTN#1	.3
291413	S-043	.05
291017	S-107 1CT	30.34
291019	S-107 1ST	60.68
291018	S-107 2CT	30.34
291065	S121	.17
292200	T-059	.06
292512	T-146 C	7.21
885600	T20SOLAR E	-.22
292815	U1-056 C	4.62
292827	U1-066 1CT	.03
292828	U1-066 2CT	.03
292966	U2-045 C	.25
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.16
297082	V2-035 C	.11
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.96
904223	V4-023 C2	.12

904231	V4-024 C1	.57
904233	V4-024 C2	.56
904241	V4-025 C1	.67
904243	V4-025 C2	.34
904245	V4-025 C3	.08
904247	V4-025 C4	.13
904281	V4-029 C	1.22
904361	V4-037 C1	.59
904363	V4-037 C3	.61
904401	V4-041 C	1.05
904411	V4-042 C1	.52
904413	V4-042 C2	.59
904531	V4-054 C	.02
904611	V4-062 C	.16
228471	VALERO	.1
228472	VALERO	.05
228473	VALERO	.05
228484	VALERO	.06
228700	VNLD 10	2.81
901051	W1-021 C	1.01
901061	W1-022 C	1.01
901071	W1-023 C	1.01
901121	W1-039	.04
901141	W1-048 C	.28
901191	W1-068 C	1.12
901271	W1-083 C	.01
901281	W1-085 C	.93
901291	W1-086 C	.93
901301	W1-087 C	.93
901311	W1-088 C	.93
901321	W1-089 C	.86
901331	W1-090 C OP1	.7
901461	W1-117 C	.97
901471	W1-118 C	.97
901561	W1-130 C	.49
902301	W2-035 C	.86
902321	W2-039	7.66
902341	W2-047 C	.66
902621	W2-101 C	1.13
903251	W3-009 C	.52
903381	W3-033	.73
903471	W3-048	2.81
903501	W3-058 C	.41
903651	W3-101 C	.

903891	W3-157 C	.09
903951	W3-174	32.24
903961	W3-175	61.81
905131	W4-015 C	31.74
905141	W4-016	79.36
905161	W4-018 C	.52
905221	W4-027 C	.38
905301	W4-040 C	.58
905391	W4-063 C	.06
907031	X1-021 C	.01
907101	X1-039	.16
909091	X2-027 C OP1	.11
909101	X2-028 C OP1	.17
913511	Y1-077	7.61
914301	Y2-081 C	.46
914451	Y2-102	29.11
914481	Y2-105	15.02

Appendix 18

Bus Number	Bus Name	Full Contribution
219221	BRL12CT1	.29
219222	BRL12CT2	.29
219223	BRL12CT3	.29
219224	BRL12CT4	.29
219103	BURLNGT8	6.36
219124	BURLNGT9	55.72
219156	CAMD CGN	1.3
228251	CARLLS#4	1.15
228000	CEDR#1CT	7.07
228001	CEDR#2CT	3.41
228301	D/W 1 ST	20.1
228302	D/W 6 ST	20.61
231904	DC1 NUG	2.83
231905	DC2 NUG	2.83
219230	EAGLE P	.18
219120	EAGLE PT	1.42
231903	GEN4	8.04
219128	GLOUCSTR	.33
227881	GRENWCHG	.01
232906	IR3	17.15
219134	MERCER 3	23.23
228400	MICK 1CT	.37
227807	MO AV B	4.2
219137	NAT PARK	8.2
295841	Q-090 2	4.78
228343	QUINTN#1	.5
295952	R-011	22.31
213918	RICHMD91	.5
213919	RICHMD92	.5
291017	S-107 1CT	42.23
291019	S-107 1ST	84.47
291018	S-107 2CT	42.23
292200	T-059	.09
886231	T-144 C	.98
292512	T-146 C	14.75
885600	T20SOLAR E	.44
292815	U1-056 C	9.72
292966	U2-045 C	.55
293062	U2-076	2.01
291995	U4-036 C	.01
292104	V1-030 C6	.

292088	V1-030 CB	.02
297005	V2-003 C	.32
297076	V2-028 C	.22
297082	V2-035 C	.19
900131	V4-022 C	.19
904221	V4-023 C1	1.71
904223	V4-023 C2	.2
904231	V4-024 C1	.98
904233	V4-024 C2	.96
904241	V4-025 C1	1.06
904243	V4-025 C2	.58
904245	V4-025 C3	.14
904247	V4-025 C4	.22
904281	V4-029 C	2.
904361	V4-037 C1	.99
904363	V4-037 C3	1.
904401	V4-041 C	2.
904411	V4-042 C1	.98
904413	V4-042 C2	1.04
904611	V4-062 C	.28
904631	V4-064 C	.75
228471	VALERO	.15
228472	VALERO	.07
228473	VALERO	.07
228484	VALERO	.09
228700	VNLD 10	5.3
901001	W1-003 C	.75
901011	W1-004 C	.75
901021	W1-005 C	.75
901031	W1-006 C	.75
901041	W1-008 C	.75
901051	W1-021 C	1.82
901061	W1-022 C	1.82
901071	W1-023 C	1.82
901141	W1-048 C	.48
901191	W1-068 C	1.91
901201	W1-070 C	.74
901271	W1-083 C	.01
901281	W1-085 C	1.74
901291	W1-086 C	1.74
901301	W1-087 C	1.74
901311	W1-088 C	1.74
901321	W1-089 C	1.59
901331	W1-090 C OP1	1.71

901461	W1-117 C	1.77
901471	W1-118 C	1.77
901561	W1-130 C	.91
902181	W2-014	.02
902211	W2-019 C	.37
902301	W2-035 C	1.49
902321	W2-039	14.37
902341	W2-047 C	1.02
902411	W2-060 C	.05
902621	W2-101 C	1.92
903251	W3-009 C	.92
903301	W3-026 C	.01
903311	W3-028 C	6.74
903341	W3-032A 1	15.28
903351	W3-032A 2	15.28
903381	W3-033	1.57
903401	W3-041 C	.03
903471	W3-048	6.81
903481	W3-054AC	1.21
903501	W3-058 C	.81
903601	W3-080 C	.05
903891	W3-157 C	.16
903921	W3-160 C	.37
903951	W3-174	50.4
903961	W3-175	96.63
905131	W4-015 C	44.18
905141	W4-016	110.46
905161	W4-018 C	.98
905181	W4-021	44.84
905211	W4-025 C	.42
905221	W4-027 C	.72
905301	W4-040 C	1.01
905331	W4-045 C	.52
905391	W4-063 C	.14
907031	X1-021 C	.02
907101	X1-039	.2
907201	X1-054 C	.03
907251	X1-070 C	.01
907261	X1-071 C	.
907291	X1-074	29.05
907351	X1-085 C	.21
907401	X1-096 C	1.91
909091	X2-027 C OP1	.19
909101	X2-028 C OP1	.29

909231	X2-066	30.3
909241	X2-067	30.57
910571	X3-008 C	.74
910591	X3-015 C	.72
910671	X3-040 C	.38
910681	X3-041 C	.56
910821	X3-066 C	.21
910841	X3-070	.2
912101	X4-015 C	.31
912121	X4-017 C	.74
912171	X4-027-CT1	1.94
912172	X4-027-CT2	1.94
912173	X4-027-CT3	1.94
913041	Y1-008 C	.64
913511	Y1-077	15.57
913531	Y1-079 C OP1	.36
913541	Y1-080 C	.12
914271	Y2-078	2.07
914281	Y2-079	20.7
914301	Y2-081 C	.59
914451	Y2-102	49.73
914481	Y2-105	18.72

Appendix 19

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	1.16
228200	CARL#1CT	.12
228201	CARL#2CT	.12
228251	CARLLS#4	.7
228309	CCLP NUG	1.02
228000	CEDR#1CT	2.41
228001	CEDR#2CT	1.16
213400	COVANTA DELA	.29
228301	D/W 1 ST	12.79
228302	D/W 6 ST	13.11
219230	EAGLE P	.15
219120	EAGLE PT	1.24
219128	GLOUCSTR	.29
227881	GRENWCHG	.01
228304	LOGAN	1.11
228334	MANNMILG	.03
228400	MICK 1CT	.27
227807	MO AV B	2.12
219137	NAT PARK	7.35
228307	PCLP GT	.27
228306	PCLP STM	.27
295841	Q-090 2	3.73
228343	QUINTN#1	.32
291413	S-043	.05
291017	S-107 1CT	32.97
291019	S-107 1ST	65.95
291018	S-107 2CT	32.97
291065	S121	.19
292200	T-059	.07
292512	T-146 C	7.84
885600	T20SOLAR E	-.23
292815	U1-056 C	5.02
292827	U1-066 1CT	.03
292828	U1-066 2CT	.03
292966	U2-045 C	.28
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.17
297082	V2-035 C	.12
297103	V2-046 C	.03
904081	V4-009 C	.01

904221	V4-023 C1	1.04
904223	V4-023 C2	.13
904231	V4-024 C1	.62
904233	V4-024 C2	.61
904241	V4-025 C1	.73
904243	V4-025 C2	.37
904245	V4-025 C3	.09
904247	V4-025 C4	.14
904281	V4-029 C	1.33
904361	V4-037 C1	.64
904363	V4-037 C3	.66
904401	V4-041 C	1.14
904411	V4-042 C1	.57
904413	V4-042 C2	.64
904531	V4-054 C	.02
904611	V4-062 C	.18
228471	VALERO	.11
228472	VALERO	.05
228473	VALERO	.05
228484	VALERO	.07
228700	VNLD 10	3.05
901051	W1-021 C	1.1
901061	W1-022 C	1.1
901071	W1-023 C	1.1
901121	W1-039	.05
901141	W1-048 C	.31
901191	W1-068 C	1.21
901271	W1-083 C	.01
901281	W1-085 C	1.01
901291	W1-086 C	1.01
901301	W1-087 C	1.01
901311	W1-088 C	1.01
901321	W1-089 C	.94
901331	W1-090 C OP1	.76
901461	W1-117 C	1.05
901471	W1-118 C	1.05
901561	W1-130 C	.53
902301	W2-035 C	.93
902321	W2-039	8.32
902341	W2-047 C	.71
902621	W2-101 C	1.22
903251	W3-009 C	.56
903381	W3-033	.79
903471	W3-048	3.05

903501	W3-058 C	.44
903651	W3-101 C	.
903891	W3-157 C	.1
903951	W3-174	35.03
903961	W3-175	67.17
905131	W4-015 C	34.5
905141	W4-016	86.24
905161	W4-018 C	.57
905221	W4-027 C	.42
905301	W4-040 C	.63
905391	W4-063 C	.07
907031	X1-021 C	.01
907101	X1-039	.17
909091	X2-027 C OP1	.12
909101	X2-028 C OP1	.18
913511	Y1-077	8.27
914301	Y2-081 C	.5
914451	Y2-102	31.63
914481	Y2-105	16.33

Appendix 20

Bus Number	Bus Name	Full Contribution
219156	CAMD CGN	1.05
228200	CARL#1CT	.11
228201	CARL#2CT	.11
228251	CARLLS#4	.63
228309	CCLP NUG	.93
213400	COVANTA DELA	.26
228301	D/W 1 ST	11.6
228302	D/W 6 ST	11.9
219230	EAGLE P	.14
219120	EAGLE PT	1.12
219128	GLOUCSTR	.27
227881	GRENWCHG	.01
228304	LOGAN	1.
228334	MANNMILG	.03
228400	MICK 1CT	.25
227807	MO AV B	1.92
219137	NAT PARK	6.67
228307	PCLP GT	.24
228306	PCLP STM	.24
295841	Q-090 2	3.39
228343	QUINTN#1	.29
291413	S-043	.05
291017	S-107 1CT	29.92
291019	S-107 1ST	59.84
291018	S-107 2CT	29.92
291065	S121	.17
292200	T-059	.06
292512	T-146 C	7.11
885600	T20SOLAR E	-.21
292815	U1-056 C	4.55
292827	U1-066 1CT	.03
292828	U1-066 2CT	.03
292966	U2-045 C	.25
291995	U4-036 C	.01
292104	V1-030 C6	.
297005	V2-003 C	.16
297082	V2-035 C	.11
297103	V2-046 C	.02
904081	V4-009 C	.01
904221	V4-023 C1	.95
904223	V4-023 C2	.12

904231	V4-024 C1	.57
904233	V4-024 C2	.56
904241	V4-025 C1	.66
904243	V4-025 C2	.34
904245	V4-025 C3	.08
904247	V4-025 C4	.13
904281	V4-029 C	1.2
904361	V4-037 C1	.58
904363	V4-037 C3	.6
904401	V4-041 C	1.03
904411	V4-042 C1	.51
904413	V4-042 C2	.58
904531	V4-054 C	.02
904611	V4-062 C	.16
228471	VALERO	.1
228472	VALERO	.05
228473	VALERO	.05
228484	VALERO	.06
228700	VNLD 10	2.77
901051	W1-021 C	1.
901061	W1-022 C	1.
901071	W1-023 C	1.
901121	W1-039	.04
901141	W1-048 C	.28
901191	W1-068 C	1.1
901271	W1-083 C	.01
901281	W1-085 C	.91
901291	W1-086 C	.91
901301	W1-087 C	.91
901311	W1-088 C	.91
901321	W1-089 C	.85
901331	W1-090 C OP1	.69
901461	W1-117 C	.95
901471	W1-118 C	.95
901561	W1-130 C	.48
902301	W2-035 C	.84
902321	W2-039	7.55
902341	W2-047 C	.65
902621	W2-101 C	1.11
903251	W3-009 C	.51
903381	W3-033	.72
903471	W3-048	2.77
903501	W3-058 C	.4
903651	W3-101 C	.

903891	W3-157 C	.09
903951	W3-174	31.79
903961	W3-175	60.96
905131	W4-015 C	31.3
905141	W4-016	78.26
905161	W4-018 C	.51
905221	W4-027 C	.38
905301	W4-040 C	.57
905391	W4-063 C	.06
907031	X1-021 C	.01
907101	X1-039	.16
909091	X2-027 C OP1	.11
909101	X2-028 C OP1	.17
913511	Y1-077	7.5
914301	Y2-081 C	.45
914451	Y2-102	28.71
914481	Y2-105	14.81

Appendix 21

Bus Number	Bus Name	Full Contribution
219103	BURLNGT8	6.33
219124	BURLNGT9	55.46
219156	CAMD CGN	1.29
219241	CAMDEN1	.04
219242	CAMDEN2	.
228251	CARLLS#4	1.15
228000	CEDR#1CT	7.06
228001	CEDR#2CT	3.4
228301	D/W 1 ST	20.13
228302	D/W 6 ST	20.65
231904	DC1 NUG	2.95
231905	DC2 NUG	2.95
219230	EAGLE P	.18
219120	EAGLE PT	1.41
231903	GEN4	8.37
219128	GLOUCSTR	.33
232906	IR3	17.8
219134	MERCER 3	23.02
227807	MO AV B	4.2
214194	N WALES4	-.24
219137	NAT PARK	8.17
295841	Q-090 2	4.79
228343	QUINTN#1	.51
295952	R-011	22.01
213918	RICHMD91	.5
213919	RICHMD92	.5
291017	S-107 1CT	42.32
291019	S-107 1ST	84.64
291018	S-107 2CT	42.32
886231	T-144 C	1.02
886232	T-144 E	1.
292512	T-146 C	14.77
292513	T-146 E	59.09
885600	T20SOLAR E	.44
292815	U1-056 C	9.73
292816	U1-056 E	65.1
292966	U2-045 C	.55
292967	U2-045 E	3.65
293062	U2-076	1.99
291995	U4-036 C	.01
291996	U4-036 E	1.11

292063	V1-021 E	.06
292104	V1-030 C6	.
292088	V1-030 CB	.02
292194	V1-030 CE	.83
292185	V1-030 E2	.2
292099	V1-030 E3	.25
292101	V1-030 E4	.1
292103	V1-030 E5	.31
292105	V1-030 E6	.32
292107	V1-030 E7	.07
292115	V1-030 EB	1.47
292195	V1-030 EE	1.35
297005	V2-003 C	.32
297006	V2-003 E	.53
297021	V2-009 E1	.14
297023	V2-009 E2	.28
297025	V2-009 E3	.3
297027	V2-009 E4	.24
297039	V2-013 E	.02
297076	V2-028 C	.23
297077	V2-028 E	.38
297082	V2-035 C	.19
297083	V2-035 E	.31
297090	V2-041 E	.54
297104	V2-046 E	3.33
297106	V2-047 E	.29
293378	V3-024 E	.29
292666	V3-058 E	.1
292668	V3-059 E	.1
904042	V4-005 E	.5
904082	V4-009 E	1.5
900131	V4-022 C	.19
900132	V4-022 E	.32
904221	V4-023 C1	1.71
904223	V4-023 C2	.2
904222	V4-023 E1	2.82
904224	V4-023 E2	.3
904231	V4-024 C1	.98
904233	V4-024 C2	.96
904232	V4-024 E1	1.6
904234	V4-024 E2	1.57
904241	V4-025 C1	1.06
904243	V4-025 C2	.58
904245	V4-025 C3	.14

904247	V4-025 C4	.22
904242	V4-025 E1	1.73
904244	V4-025 E2	.94
904246	V4-025 E3	.24
904248	V4-025 E4	.37
904281	V4-029 C	2.
904282	V4-029 E	3.27
904361	V4-037 C1	.99
904363	V4-037 C3	1.
904362	V4-037 E2	1.62
904364	V4-037 E4	1.63
904401	V4-041 C	2.
904402	V4-041 E	3.26
904411	V4-042 C1	.98
904413	V4-042 C2	1.04
904412	V4-042 E1	1.6
904414	V4-042 E2	1.7
904532	V4-054 E	2.97
904611	V4-062 C	.28
904612	V4-062 E	.45
904631	V4-064 C	.77
904632	V4-064 E	1.26
900462	V4-067 E	.33
228700	VNLD 10	5.31
901001	W1-003 C	.77
901002	W1-003 E	1.26
901011	W1-004 C	.77
901012	W1-004 E	1.26
901021	W1-005 C	.77
901022	W1-005 E	1.26
901031	W1-006 C	.77
901032	W1-006 E	1.26
901041	W1-008 C	.77
901042	W1-008 E	1.26
901051	W1-021 C	1.82
901052	W1-021 E	2.97
901061	W1-022 C	1.82
901062	W1-022 E	2.97
901071	W1-023 C	1.82
901072	W1-023 E	2.97
901082	W1-024 E	.18
901102	W1-032 E	.13
901141	W1-048 C	.48
901142	W1-048 E	.78

901191	W1-068 C	1.91
901192	W1-068 E	3.12
901201	W1-070 C	.77
901202	W1-070 E	1.26
901271	W1-083 C	.01
901272	W1-083 E	1.13
901281	W1-085 C	1.74
901282	W1-085 E	2.84
901291	W1-086 C	1.74
901292	W1-086 E	2.84
901301	W1-087 C	1.74
901302	W1-087 E	2.84
901311	W1-088 C	1.74
901312	W1-088 E	2.84
901321	W1-089 C	1.59
901322	W1-089 E	2.62
901331	W1-090 C OP1	1.71
901332	W1-090 E OP1	2.82
901422	W1-113 E	.35
901461	W1-117 C	1.78
901462	W1-117 E	2.9
901471	W1-118 C	1.78
901472	W1-118 E	2.9
901482	W1-119 E	1.74
901492	W1-120 E	1.93
901502	W1-121 E	.76
901522	W1-124 E	.78
901552	W1-129 E	.5
901561	W1-130 C	.91
901562	W1-130 E	1.49
902181	W2-014	.02
902211	W2-019 C	.37
902212	W2-019 E	.59
902262	W2-026 E	.43
902292	W2-030 E	1.3
902301	W2-035 C	1.49
902302	W2-035 E	2.48
902321	W2-039	14.4
902341	W2-047 C	1.02
902342	W2-047 E	1.67
902392	W2-056 E	1.88
902412	W2-060 E	3.74
902432	W2-071 E	.5
902452	W2-074 E	.08

902482	W2-078 E	.39
902552	W2-088 E	.77
902562	W2-090 E	3.42
902621	W2-101 C	1.92
902622	W2-101 E	3.13
902632	W2-102 E	1.2
903251	W3-009 C	.92
903252	W3-009 E	1.5
903292	W3-025 E	.31
903302	W3-026 E	.93
903311	W3-028 C	6.73
903312	W3-028 E	45.3
903341	W3-032A 1	15.83
903351	W3-032A 2	15.83
903381	W3-033	1.57
903402	W3-041 E	1.87
903422	W3-045 E	.15
903471	W3-048	6.87
903481	W3-054AC	1.26
903482	W3-054AE	8.41
903492	W3-057 E	3.28
903501	W3-058 C	.81
903502	W3-058 E	1.32
903582	W3-078 E	.57
903592	W3-079 E	.83
903602	W3-080 E	3.74
903652	W3-101 E	.46
903722	W3-120 E	1.6
903732	W3-124 E	.47
903891	W3-157 C	.16
903892	W3-157 E	.26
903902	W3-158 E	.75
903912	W3-159 E	.88
903921	W3-160 C	.39
903922	W3-160 E	.63
903951	W3-174	50.53
903961	W3-175	96.88
905112	W4-011 E	.89
905131	W4-015 C	44.27
905141	W4-016	110.68
905161	W4-018 C	.98
905162	W4-018 E	1.6
905181	W4-021	44.36
905211	W4-025 C	.42

905212	W4-025 E	.71
905221	W4-027 C	.72
905222	W4-027 E	1.18
905232	W4-029 E	.5
905301	W4-040 C	1.01
905302	W4-040 E	1.65
905331	W4-045 C	.52
905332	W4-045 E	.85
905391	W4-063 C	.14
905392	W4-063 E	.91
905432	W4-072 E	.7
905482	W4-085 E	.49
905512	W4-089 E	.46
905522	W4-090 E	.46
905562	W4-103 E	1.15
907031	X1-021 C	.02
907032	X1-021 E	1.15
907052	X1-032 E	.41
907082	X1-037 E	.86
907101	X1-039	.2
907132	X1-043 E	.55
907162	X1-049 E	.14
907202	X1-054 E	1.87
907222	X1-066 E	.22
907251	X1-070 C	.01
907252	X1-070 E	.78
907261	X1-071 C	.
907262	X1-071 E	.29
907291	X1-074	30.01
907351	X1-085 C	.21
907352	X1-085 E	.34
907401	X1-096 C	1.98
907402	X1-096 E	13.28
907472	X1-110 E	.43
909032	X2-013 E	.69
909091	X2-027 C OP1	.19
909092	X2-027 E OP1	.31
909101	X2-028 C OP1	.29
909102	X2-028 E OP1	.47
909122	X2-033 E	.2
909212	X2-059 E	.69
909231	X2-066	31.43
909241	X2-067	31.65
909312	X2-088 E	.13

910562	X3-007 E	.4
910571	X3-008 C	.77
910572	X3-008 E	1.25
910591	X3-015 C	.75
910592	X3-015 E	1.23
910671	X3-040 C	.4
910672	X3-040 E	2.66
910681	X3-041 C	.58
910682	X3-041 E	.94
910692	X3-043 E	2.05
910821	X3-066 C	.22
910822	X3-066 E	.36
910841	X3-070	.21
910852	X3-071 E	.63
910862	X3-075 E	1.17
910882	X3-077 E	.63
910902	X3-081 E	-.11
912032	X4-004 E	1.95
912101	X4-015 C	.31
912102	X4-015 E	.5
912121	X4-017 C	.77
912122	X4-017 E	1.26
912171	X4-027-CT1	2.09
912172	X4-027-CT2	2.09
912173	X4-027-CT3	2.09
912182	X4-031 E	.17
912232	X4-040 E	.2
912271	X4-045 E	.12
913041	Y1-008 C	.66
913042	Y1-008 E	4.43
913362	Y1-057 E	.34
913502	Y1-075 E	.46
913511	Y1-077	15.58
913531	Y1-079 C OP1	.38
913532	Y1-079 E OP1	.61
913541	Y1-080 C	.13
913542	Y1-080 E	.21
914271	Y2-078	2.06
914281	Y2-079	20.59
914301	Y2-081 C	.58
914302	Y2-081 E	.95
914451	Y2-102	49.81
914481	Y2-105	18.68

Appendix 22

Bus Number	Bus Name	Full Contribution
219103	BURLNGT8	6.33
219124	BURLNGT9	55.46
219156	CAMD CGN	1.29
219241	CAMDEN1	.04
219242	CAMDEN2	.
228251	CARLLS#4	1.15
228000	CEDR#1CT	7.06
228001	CEDR#2CT	3.4
228301	D/W 1 ST	20.13
228302	D/W 6 ST	20.65
231904	DC1 NUG	2.95
231905	DC2 NUG	2.95
219230	EAGLE P	.18
219120	EAGLE PT	1.41
231903	GEN4	8.37
219128	GLOUCSTR	.33
232906	IR3	17.8
219134	MERCER 3	23.02
227807	MO AV B	4.2
214194	N WALES4	-.24
219137	NAT PARK	8.17
295841	Q-090 2	4.79
228343	QUINTN#1	.51
295952	R-011	22.01
213918	RICHMD91	.5
213919	RICHMD92	.5
291017	S-107 1CT	42.32
291019	S-107 1ST	84.64
291018	S-107 2CT	42.32
886231	T-144 C	1.02
886232	T-144 E	1.
292512	T-146 C	14.77
292513	T-146 E	59.09
885600	T20SOLAR E	.44
292815	U1-056 C	9.73
292816	U1-056 E	65.1
292966	U2-045 C	.55
292967	U2-045 E	3.65
293062	U2-076	1.99
291995	U4-036 C	.01
291996	U4-036 E	1.11

292063	V1-021 E	.06
292104	V1-030 C6	.
292088	V1-030 CB	.02
292194	V1-030 CE	.83
292185	V1-030 E2	.2
292099	V1-030 E3	.25
292101	V1-030 E4	.1
292103	V1-030 E5	.31
292105	V1-030 E6	.32
292107	V1-030 E7	.07
292115	V1-030 EB	1.47
292195	V1-030 EE	1.35
297005	V2-003 C	.32
297006	V2-003 E	.53
297021	V2-009 E1	.14
297023	V2-009 E2	.28
297025	V2-009 E3	.3
297027	V2-009 E4	.24
297039	V2-013 E	.02
297076	V2-028 C	.23
297077	V2-028 E	.38
297082	V2-035 C	.19
297083	V2-035 E	.31
297090	V2-041 E	.54
297104	V2-046 E	3.33
297106	V2-047 E	.29
293378	V3-024 E	.29
292666	V3-058 E	.1
292668	V3-059 E	.1
904042	V4-005 E	.5
904082	V4-009 E	1.5
900131	V4-022 C	.19
900132	V4-022 E	.32
904221	V4-023 C1	1.71
904223	V4-023 C2	.2
904222	V4-023 E1	2.82
904224	V4-023 E2	.3
904231	V4-024 C1	.98
904233	V4-024 C2	.96
904232	V4-024 E1	1.6
904234	V4-024 E2	1.57
904241	V4-025 C1	1.06
904243	V4-025 C2	.58
904245	V4-025 C3	.14

904247	V4-025 C4	.22
904242	V4-025 E1	1.73
904244	V4-025 E2	.94
904246	V4-025 E3	.24
904248	V4-025 E4	.37
904281	V4-029 C	2.
904282	V4-029 E	3.27
904361	V4-037 C1	.99
904363	V4-037 C3	1.
904362	V4-037 E2	1.62
904364	V4-037 E4	1.63
904401	V4-041 C	2.
904402	V4-041 E	3.26
904411	V4-042 C1	.98
904413	V4-042 C2	1.04
904412	V4-042 E1	1.6
904414	V4-042 E2	1.7
904532	V4-054 E	2.97
904611	V4-062 C	.28
904612	V4-062 E	.45
904631	V4-064 C	.77
904632	V4-064 E	1.26
900462	V4-067 E	.33
228700	VNLD 10	5.31
901001	W1-003 C	.77
901002	W1-003 E	1.26
901011	W1-004 C	.77
901012	W1-004 E	1.26
901021	W1-005 C	.77
901022	W1-005 E	1.26
901031	W1-006 C	.77
901032	W1-006 E	1.26
901041	W1-008 C	.77
901042	W1-008 E	1.26
901051	W1-021 C	1.82
901052	W1-021 E	2.97
901061	W1-022 C	1.82
901062	W1-022 E	2.97
901071	W1-023 C	1.82
901072	W1-023 E	2.97
901082	W1-024 E	.18
901102	W1-032 E	.13
901141	W1-048 C	.48
901142	W1-048 E	.78

901191	W1-068 C	1.91
901192	W1-068 E	3.12
901201	W1-070 C	.77
901202	W1-070 E	1.26
901271	W1-083 C	.01
901272	W1-083 E	1.13
901281	W1-085 C	1.74
901282	W1-085 E	2.84
901291	W1-086 C	1.74
901292	W1-086 E	2.84
901301	W1-087 C	1.74
901302	W1-087 E	2.84
901311	W1-088 C	1.74
901312	W1-088 E	2.84
901321	W1-089 C	1.59
901322	W1-089 E	2.62
901331	W1-090 C OP1	1.71
901332	W1-090 E OP1	2.82
901422	W1-113 E	.35
901461	W1-117 C	1.78
901462	W1-117 E	2.9
901471	W1-118 C	1.78
901472	W1-118 E	2.9
901482	W1-119 E	1.74
901492	W1-120 E	1.93
901502	W1-121 E	.76
901522	W1-124 E	.78
901552	W1-129 E	.5
901561	W1-130 C	.91
901562	W1-130 E	1.49
902181	W2-014	.02
902211	W2-019 C	.37
902212	W2-019 E	.59
902262	W2-026 E	.43
902292	W2-030 E	1.3
902301	W2-035 C	1.49
902302	W2-035 E	2.48
902321	W2-039	14.4
902341	W2-047 C	1.02
902342	W2-047 E	1.67
902392	W2-056 E	1.88
902412	W2-060 E	3.74
902432	W2-071 E	.5
902452	W2-074 E	.08

902482	W2-078 E	.39
902552	W2-088 E	.77
902562	W2-090 E	3.42
902621	W2-101 C	1.92
902622	W2-101 E	3.13
902632	W2-102 E	1.2
903251	W3-009 C	.92
903252	W3-009 E	1.5
903292	W3-025 E	.31
903302	W3-026 E	.93
903311	W3-028 C	6.73
903312	W3-028 E	45.3
903341	W3-032A 1	15.83
903351	W3-032A 2	15.83
903381	W3-033	1.57
903402	W3-041 E	1.87
903422	W3-045 E	.15
903471	W3-048	6.87
903481	W3-054AC	1.26
903482	W3-054AE	8.41
903492	W3-057 E	3.28
903501	W3-058 C	.81
903502	W3-058 E	1.32
903582	W3-078 E	.57
903592	W3-079 E	.83
903602	W3-080 E	3.74
903652	W3-101 E	.46
903722	W3-120 E	1.6
903732	W3-124 E	.47
903891	W3-157 C	.16
903892	W3-157 E	.26
903902	W3-158 E	.75
903912	W3-159 E	.88
903921	W3-160 C	.39
903922	W3-160 E	.63
903951	W3-174	50.53
903961	W3-175	96.88
905112	W4-011 E	.89
905131	W4-015 C	44.27
905141	W4-016	110.68
905161	W4-018 C	.98
905162	W4-018 E	1.6
905181	W4-021	44.36
905211	W4-025 C	.42

905212	W4-025 E	.71
905221	W4-027 C	.72
905222	W4-027 E	1.18
905232	W4-029 E	.5
905301	W4-040 C	1.01
905302	W4-040 E	1.65
905331	W4-045 C	.52
905332	W4-045 E	.85
905391	W4-063 C	.14
905392	W4-063 E	.91
905432	W4-072 E	.7
905482	W4-085 E	.49
905512	W4-089 E	.46
905522	W4-090 E	.46
905562	W4-103 E	1.15
907031	X1-021 C	.02
907032	X1-021 E	1.15
907052	X1-032 E	.41
907082	X1-037 E	.86
907101	X1-039	.2
907132	X1-043 E	.55
907162	X1-049 E	.14
907202	X1-054 E	1.87
907222	X1-066 E	.22
907251	X1-070 C	.01
907252	X1-070 E	.78
907261	X1-071 C	.
907262	X1-071 E	.29
907291	X1-074	30.01
907351	X1-085 C	.21
907352	X1-085 E	.34
907401	X1-096 C	1.98
907402	X1-096 E	13.28
907472	X1-110 E	.43
909032	X2-013 E	.69
909091	X2-027 C OP1	.19
909092	X2-027 E OP1	.31
909101	X2-028 C OP1	.29
909102	X2-028 E OP1	.47
909122	X2-033 E	.2
909212	X2-059 E	.69
909231	X2-066	31.43
909241	X2-067	31.65
909312	X2-088 E	.13

910562	X3-007 E	.4
910571	X3-008 C	.77
910572	X3-008 E	1.25
910591	X3-015 C	.75
910592	X3-015 E	1.23
910671	X3-040 C	.4
910672	X3-040 E	2.66
910681	X3-041 C	.58
910682	X3-041 E	.94
910692	X3-043 E	2.05
910821	X3-066 C	.22
910822	X3-066 E	.36
910841	X3-070	.21
910852	X3-071 E	.63
910862	X3-075 E	1.17
910882	X3-077 E	.63
910902	X3-081 E	-.11
912032	X4-004 E	1.95
912101	X4-015 C	.31
912102	X4-015 E	.5
912121	X4-017 C	.77
912122	X4-017 E	1.26
912171	X4-027-CT1	2.09
912172	X4-027-CT2	2.09
912173	X4-027-CT3	2.09
912182	X4-031 E	.17
912232	X4-040 E	.2
912271	X4-045 E	.12
913041	Y1-008 C	.66
913042	Y1-008 E	4.43
913362	Y1-057 E	.34
913502	Y1-075 E	.46
913511	Y1-077	15.58
913531	Y1-079 C OP1	.38
913532	Y1-079 E OP1	.61
913541	Y1-080 C	.13
913542	Y1-080 E	.21
914271	Y2-078	2.06
914281	Y2-079	20.59
914301	Y2-081 C	.58
914302	Y2-081 E	.95
914451	Y2-102	49.81
914481	Y2-105	18.68