WHITE TANKS/AGUA FRIA ADMS, TDN, APPENDIX G, VOL. 8 OF 15, CHANNEL ROUTING PARAMETERS

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FLOOD STUDY
TECHNICAL DATA NOTEBOOK

for

WHITE TANKS/AGUA FRIA
AREA DRAINAGE MASTER STUDY

APPENDIX G
VOLUME 8 OF 15

CHANNEL ROUTING PARAMETERS

Prepared for:
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared by:
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May 28, 1992

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 3-6-90

ROUTING PARAMETERS

CP1 to CP2

METHOD USED — NORMAL DEPTH

CROSS-SECTION DATA (Average)

	NSTPS	STOR		
RS	3	STOR	-1	0

Vel = 11.65 ft/sec

RC Left Overbank n = .06
Channel n = .04
Right Overbank n = .06

Length = 17800 ft
Slope = .0469 ft/ft

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1125	1300	1390	1405	1490	1590	1750

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1440	1439	1437	1428	1428	1439	1442	1444

Loss Rate (Transmission) RL — — 1.0 1428

CP2 to CP3

	NSTPS	STOR		
RS	1 (2)	STOR	-1	0

Vel = 6.62 ft/sec

RC

LOB n = .06
Channel n = .035
ROB n = .06

Length = 4500 ft
Slope = .0111 ft/ft

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1100	1350	1705	1735	1780	1850	2000

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1304	1302	1302	1298	1298	1303	1302	1305

Transmission Loss Rate

RL — — 1.5 1298

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G A Date 9-20-90

ROUTING PARAMETERS

CP3A TO CP3

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min

Assume V_{av} = 8.0 ft/sec

∴ NSTPS = 2

Actual vel =

NSTPS	—	-1	0	
RS	2	—	-1	0

	N left	N chan	N right	Length	Slope
RC	0.03	0.03	0.05	5300	0.0060

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1023	1032	1046	1058	1067	1250	1540
RY	1289	1288	1286	1284	1284	1286	1288	1291

Transmission Loss Rate

RL	—	—	1.5	1284

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COMPUTATION DATA SHEET

Subject WHITE TANKS/ AGUA FRIA ADMS Prepared by JSE Date 3-6-90

ROUTING PARAMETERS

CP3 to CP10

METHOD USED — NORMAL DEPTH

CROSS-SECTION DATA

RS NSTPS 1 ~~STOR~~ -1 0

Vel = 8.82 ft/sec

RC LOB n = .05
Channel n = .03
ROB n = .05

Length = 5280
Slope = .0083%

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1010	1015	1020	1050	1100	1275	1580	1750

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1251	1249	1249	1245	1245	1250	1250	1254

Transmission Loss Rate

RL — — 2.0 1245

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-28-91

ROUTING PARAMETERS

CP 3 TO CP 189

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{4500}{3 \times 300}$$

Time Interval = 5 min Assumed Vel = 3 ft/sec

Actual Vel. =

	NSTPS			
RS	5	—	—1	0

	N LEFT	NCHAN.	N RIGHT	LENGTH	SLOPE
RC	.022	.035	.05	4500	.0038

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1175	1250	1275	1350	1430	1470
RY	1261	1260	1260.5	1258	1258	1260.5	1258	1261

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-12-90

ROUTING PARAMETERS

CP5 TO CP7

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel ≅ 15.0 ft/sec
Travel Time = .09 Time Interval = 5
NSTPS = 1
Actual Vel = 14.41 ft/sec

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

RS 1 STOR -1 0

RC

Left Overbank n = .08
Channel n = .05
Right Overbank n = .08

Length = 4800 ft
Slope = .0833 1/1

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
955	970	985	1000	1020	1035	1050	1065

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
2815	2810	2805	2800	2800	2805	2810	2815

Transmission Loss Rate

RL — — .5 2800

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-12-90

ROUTING PARAMETERS

CP 7 TO CP 9

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel = 12 ft/sec
Travel Time = .236 Time Interval = 5
NSTPS = 2
Actual Vel = 13.23 ft/sec

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

RS 2 — -1 0

RC

Left Overbank n = .08
Channel n = .05
Right Overbank n = .08

Length = 10200 ft
Slope = .07745%

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1045	1120	1195	1230	1300	1350	1450

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1910	1880	1850	1838	1838	1850	1880	1910

Transmission Loss Rate

RL — — .5 1838

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-7-90

ROUTING PARAMETERS

CP9 to CP10

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel. ≅ 8 ft/sec
≅ Travel Time = .67 hr, Time Interval = 5
NSTPS = 8

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Actual Vel = 10.90 ft/sec

RS 8 — —1 0

RC 3

Left Overbank n = .06
Channel n = .035
Right Overbank n = .06

Length = 19200 ft
Slope = .0232 ft/ft

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1085	1310	1395	1415	1450	1630	1665

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1317	1314	1311	1308	1308	1314	1314	1317

Transmission Loss Rate

RL — — 1.5 1308

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Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-7-90

ROUTING PARAMETERS

CP10 to CP12

METHOD USED + NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel ≅ 8.0 ft/sec
Travel Time = .12 Time Interval = 5
NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Act. Vel = 8.76 ft/sec

RS 1 — —1 0

RC

Left Overbank n = .03
Channel n = .03
Right Overbank n = .05

Length = 3500 ft
Slope = .0057 ft/ft

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
995	1000	1020	1055	1085	1165	1250	1330

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1221	1220	1220	1211	1211	1218	1220	1222

Transmission Rate Loss

RL — — 2.0 1211

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Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 3-7-91

ROUTING PARAMETERS

CP10 TO CP188

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{1000}{3 \times 300} = 1.1$$

Time Interval = 5 min Assumed Vel = 3 ft/sec

Actual Vel. = 2.6

	NSTPS			
RS	1	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.06	.04	.06	1000	.0044

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1050	1150	1240	1300	1350	1400	1405
RY	1228	12275	1226	1225	1225	1226	12275	1228

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-7-90

ROUTING PARAMETERS

CP 12 to WT#3

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel = 8.0 ft/sec
Travel Time = .17 Time Interval = 5
NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Act. Vel = 5.73 ft/sec

RS 1 — -1 0

2

RC

Left Overbank n = .03
Channel n = .03
Right Overbank n = .04

Length = 4800 ft
Slope = .0031 1/1

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
995	1000	1020	1080	1200	1530	1665	1760

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1211	1211	1210	1196	1196	1200	1204	1204

Transmission Loss Rate

RL — — 2.0 1196

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-7-90

ROUTING PARAMETERS

CP11 to CP13

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel. = 10 ft/sec
Travel Time = .28 Time Interval = 5
NSTPS = 2
Act Vel = 7.28 ft/sec

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

RS 2 — -1 0

RC

Left Overbank n = .06
Channel n = .035
Right Overbank n = .06

Length = 10200 ft
Slope = .0098%

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1070	1300	1480	1510	1525	1555	1600

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1233	1232	1230	1222	1222	1230	1232	1233

Transmission Loss Rate

RL — — 1.5 1222

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G A Date 9-20-90

ROUTING PARAMETERS

CP13 TO CP17

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min

Assume V_{av} = 5.0 ft/sec

∴ NSTPS = 2

Actual vel =

	NSTPS			
		—	-1	0
RS	2	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.04	2400	0.0042

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1025	1040	1065	1085	1110	1175	1200
RY	1206	1198	1196	1194	1194	1198	1198	1201

Transmission ~~Loss~~ Rate

RL	—	—	2.0	1194

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-12-90

ROUTING PARAMETERS

CP 14 TO CP 15

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Assume Vel = 8.0 ft/sec
Travel Time = .305 hr Time Interval = 5
NSTPS = 2

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Act. Vel. = 10.94 ft/sec

RS 2 — -1 0

RC

Left Overbank n = .06
Channel n = .035
Right Overbank n = .06

Length = 8800 ft
Slope = .02556 %

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1030	1075	1200	1220	1280	1415	1480

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1296	1295	1294	1288	1288	1294	1296	1300

Transmission Loss Rate

RL — — 1.0 1288

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 3-12-90

ROUTING PARAMETERS

CP 15 TO CP 17

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Ave. Vel. = 8.0 ft/sec
Travel Time = .236 Time Interval = 5
NSTPS = 2

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Act. Vel. = 5.07 ft/sec

RS 2 — —1 0

(3)

RC

Left Overbank n = .06
Channel n = .035
Right Overbank n = .06

Length = 6800 ft.
Slope = .00794%

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1310	1380	1540	1640	1670	1700	1910

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1234	1232	1228	1226	1226	1228	1232	1235

Transmission Loss Rate

RL — — 2.0 1226

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by JSE Date 7-13-90

ROUTING PARAMETERS

CP17 TO CPNT3

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

Ave Vel. ≅ 3.0 ft/sec
Travel Time = .15 Time Interval = 5
NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Act Vel = 3.41 ft/sec

RS 1 — —1 0

BC

Left Overbank	n = .06	Length =	1600 ft
Channel	n = .04	Slope =	.0022 ft/ft
Right Overbank	n = .04		

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1000	1220	1280	1470	1530	1660	1680	1685

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1196	1194	1190	1182	1182	1210	1211	1212

Transmission Loss Rate

RL — — 2.0 1182

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 18 TO CP 19

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = .5 min
Assume Vel = 11.0 ft/sec
Travel Time = 0.197 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	1	—	-1	0	
RC	NLeft	N chan	N Right	Length	Slope
RC	.08	.05	.08	7800	.00615
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1080	1097	1120	1140	1205	1218
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1520	1518	1514	1510	1510	1512	1518	1520

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 19 TO CP21

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 8.0 ft/sec
Travel Time = 0.2 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	1	—	-1	0				
RC	NLeft	N chan	N Right	Length	Slope			
RC	.06	.04	.06	5772	.0246			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1025	1040	1055	1069	1080	1100
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1466	1464	1460	1458	1458	1460	1466	1467

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COMPUTATION DATA SHEET

Subject WHITE TANKS/AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 20 TO CP 21

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min.
Assume Vel = 5.0 ft/sec
Travel Time = .347 hrs.
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	2	—	-1	0	

RC	NLeft	N chan	N Right	Length	Slope
RC	.06	.045	.06	6240	.0208

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1012	1025	1032	1050	1057	1070	1092

RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1424	1422	1420	1418	1418	1420	1422	1424

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 21 TO CP 23

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 6.0 ft/sec
Travel Time = .108 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	1	—	-1	0	

RC	NLeft	Nchan	NRight	Length	Slope
RC	.03	.03	.05	2340	.0196

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1050	1070	1145	1212	1225	1250

RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1310	1306	1304	1302	1302	1304	1306	1310

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 23 TO CP 22A

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 4.0 ft/sec
Travel Time = .347 hrs.
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0
RS	2	—	-1	0

RC	NLeft	N chan	N Right	length	Slope
RC	.05	.03	.05	4992	.0050

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	930	975	1000	1010	1030	1040	1041	1042
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1397	1396.5	1396	1394	1394	1396	1396.5	1397

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 22 TO CP 22A

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 8.0 ft/sec
Travel Time = .216 hrs.
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	2	—	-1	0	

RC	NLeft	N chan	N Right	Length	Slope
RC	.05	.03	.05	6230	0.025

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1060	1070	1100	1115	1125	1150
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1294	1292	1290	1288	1288	1290	1292	1294

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 22A TO CP25

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 6.0 ft/sec
Travel Time = .325 hrs.
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N chan	N Right	Length	Slope			
RC	.03	.03	.05	7022	.0079			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1040	1047	1070	1097	1120	1200
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1255	1254	1250	1248	1248	1250	1252	1254

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 24 TO CP25

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 5.0 ft/sec
Travel Time = .073 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	1	—	-1	0	
RC	NLeft	N chan	N Right	length	Slope
RC	.05	.03	.05	1326	0.021

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1070	1100	1200	1220	1245	1265
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1234	1232	1230	1228	1228	1230	1232	1234

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 26 TO CP 27

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 6.0 ft/sec
Travel Time = .325 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N chan.	N Right	Length	Slope			
RC	.05	.03	.05	7020	0.0157			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1012	1025	1040	1090	1105	1112	1120
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1250	1248	1245	1242	1242	1244	1247	1250

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 27 TO CP 39

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 7.0 ft/sec
Travel Time = .235 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N chan	N Right	Length	Slope			
RC	.03	.03	.05	5928	.0084			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1020	1025	1055	1085	1175	1250
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1210	1210	1210	1202	1202	1204	1206	1208

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 28 TO CP 30

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 5.0 ft/sec
Travel Time = .061 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	1	—	-1	0	

RC	NLeft	N chan	N Right	Length	Slope
RC	.03	.03	.05	2400	0.027

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1035	1050	1065	1075	1085	1095

RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1165	1165	1164	1162	1162	1164	1166	1168

The WLB Group Inc WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 29 TO CP 30

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 4 ft/sec
Travel Time = .165 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	1	—	-1	0	

RC	NLeft	N chan.	N Right	Length	Slope
RC	.05	.03	.05	1200	.0021

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1042	1052	1060	1082	1090	1140	1170
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1171	1170	1168	1166	1166	1168	1170	1172

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 30 TO CP 31

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 6.0 ft/sec
Travel Time = .267 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N Chan	N Right	length	Slope			
RC	.03	.03	.05	6772	.0069			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1025	1045	1070	1095	1110	1200	1550
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1157	1156	1154	1152	1152	1154	1156	1158

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 31 TO CP 46

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 4.0 ft/sec
Travel Time = .379 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	2	—	-1	0	

RC	NLeft	N chan	N Right	Length	Slope
RC	.03	.03	.05	5800	.0082

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1012	1024	1035	1045	1053	1065	1078

RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1093	1092	1090	1088	1088	1090	1092	1094

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 33 TO CP 35

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 10.0 ft/sec
Travel Time = 0.130 hrs.
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	1	—	-1	0				
RC	NLeft	Nchan	NRight	length	slope			
RC	.08	.05	.08	4680	.0427			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1015	1022	1035	1050	1068	1092	1100
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1800	1760	1720	1680	1680	1720	1760	1800

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 35 TO CP 36

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = .5 min
Assume Vel = 9.0 ft/sec
Travel Time = 0.156 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0
RS	2	—	-1	0

RC	NLeft	N chan.	N Right	Length	Slope
RC	.06	.035	.06	5070	0.0355

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1012	1023	1034	1045	1056	1067	1079
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1429	1428	1426	1424	1424	1426	1428	1429

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 36 TO CP 38

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 8.0 ft/sec
Travel Time = .168 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	1	—	-1	0				
RC	NLeft	N chan	N Right	Length	Slope			
RC	.05	.03	.05	4836	.0198			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1008	1020	1032	1050	1112	1135	1183
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1344	1342	1340	1338	1338	1340	1342	1344

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 38 TO CP 39

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 7.0 ft/sec
Travel Time = .216 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0	
RS	2	—	-1	0	

RC	NLeft	N chan.	N Right	Length	Slope
RC	.05	.03	.05	5438	.0167

RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1005	1010	1025	1055	1085	1175	1250
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1212	1211	1210	1202	1202	1204	1206	1208

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP39 TO CP42

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 8.0 ft/sec
Travel Time = 0.168 hrs
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N Chan.	N Right	Length	Slope			
RC	.03	.03	.05	4836	.0141			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1015	1025	1055	1070	1087	1130
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1142	1142	1140	1132	1132	1136	1140	1142

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6 - 90

ROUTING PARAMETERS

CP 40 TO CP 42

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 5.0 ft/sec
Travel Time = .355 hrs.
NSTPS = 2

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	2	—	-1	0				
RC	NLeft	N chan.	N Right	Length	Slope			
RC	.05	.03	.05	6396	.0086			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1065	1095	1135	1155	1215	1220
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1115	1114	1112	1110	1110	1112	1113	1114

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by GMA Date 6-90

ROUTING PARAMETERS

CP 42 TO CP 43

METHOD USED - NORMAL DEPTH

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Interval} \times \text{NSTPS}} \leq 2.5$

Time Interval = 5 min
Assume Vel = 4.0 ft/sec
Travel Time = .060 hrs
NSTPS = 1

Actual Vel = ft/sec

RS	NSTPS	—	-1	0				
RS	1	—	-1	0				
RC	NLeft	N chan	N Right	Length	Slope			
RC	.03	.03	.05	858	.0151			
RX	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1015	1030	1060	1075	1080	1090
RY	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RY	1090	1088	1086	1084	1084	1086	1088	1090

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-23-90

ROUTING PARAMETERS

CP41A1 TO CP41A2

METHOD USED - NORMAL DEPTH

Assume Vel = 4 ft/sec

CROSS-SECTION DATA

Travel Time = .04 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 580

Channel n = .03 Slope = .0093

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	800	900	965	1000	1020	1025	1030

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1147	1143	1142	1141	1141	1143	1145	1145

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41A1 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 9.0 ft/sec

Actual vel = 1.3

NSTPS		–	–1	0
RS	~~3~~ 18	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	7180	.014

$$= \frac{1138 - 1039}{7180}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1210	1450	1530	1620	1690	1849	1850
RY	1106	1105.5	1106	1104	1104	1106	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-23-90

ROUTING PARAMETERS

CP41A2 TO CP41A3

METHOD USED - NORMAL DEPTH

Assume Vel = 40 ft/sec
Travel Time = .04 Time Int = 5 min
NSTPS = 1

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 595
Channel n = .03 Slope = .0093
Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	800	900	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1140	1136	1135	1134	1134	1136	1138	1140

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41A2 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 9.0 ft/sec

Actual vel = 1.3

	NSTPS	–	-1	0
RS	3/19	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.035	7330	.014

$$= \frac{1138-1039}{7334}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1210	1450	1530	1620	1690	1849	1850
RY	1106	1105.5	1106	1104	1104	1106	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-23-90

ROUTING PARAMETERS

CP41A3 to CP41A

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .044 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 628

Channel n = .03 Slope = .0093

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	800	900	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1135	1131	1130	1129	1129	1131	1133	1133

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41A3 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 8.0 ft/sec

Actual vel = 1.74

	NSTPS	–	–1	0
RS	~~4~~ 25	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	3360	.010

$$= \frac{1136 - 1039}{9360}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1210	1450	1530	1620	1690	1849	1850
RY	1106	1105.5	1106	1104	1104	1106	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-23-90

ROUTING PARAMETERS

CP41A to CP41-1

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .10 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank	n = .06	Length =	1437
Channel	n = .03	Slope =	.0093
Right Overbank	n = .04		

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	800	900	965	1000	1020	1025	1030

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1122	1118	1117	1116	1116	1118	1120	1120

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 2/22/91

ROUTING PARAMETERS

CP 44A TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 8.0 ft/sec

Actual vel = 1.2

NSTPS	–	-1	0
RS	4/26	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	9360	.0095

$$= \frac{1128 - 1039}{9360}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1210	1450	1530	1620	1690	1849	1850
RY	1106	1105.5	1106	1104	1104	1106	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-23-90

ROUTING PARAMETERS

CP41-1 CP41-2

METHOD USED – NORMAL DEPTH

Assume Vel = 4 ft/sec

CROSS-SECTION DATA

Travel Time = .12 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank	n = .06	Length = 1697
Channel	n = .03	Slope = .0075
Right Overbank	n = .04	

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	800	900	965	1000	1020	1025	1030

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1104	1102	1101	1100	1100	1102	1104	1105

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41-1 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 7.0 ft/sec

Actual vel = 1.1

	NSTPS	–	-1	0
RS	~~4~~ 28	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	9200	.0079

$$= \frac{1112 + 1039}{9200}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1300	1510	1660	1850	1890	1940	2100
RY	1080.5	1079	1080.5	1080	1080	1081	1080.5	1081

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP41-2 to CP41

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .06 @ Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 978'

Channel n = .03 Slope = .0053 ft/ft

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
650	800	850	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1100	1099	1098	1096	1096	1098	1100	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41-2 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 6.0 ft/sec

Actual vel = .95

	NSTPS	–	–1	0
RS	~~8~~ 33	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.035	9360	.0065

$$= \frac{1100 - 1039}{9360}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1300	1510	1660	1850	1890	1940	2100
RY	1080.5	1079	1080.5	1080	1080	1081	1080.5	1081

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP41 to CP43-1

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .0496 hr Time Int = 5 min

NSTPS = 1

NSTPS $.625 \le \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \le 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 700

Channel n = .03 Slope = .0053

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
650	800	850	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1098	1097	1096	1094	1094	1096	1098	1099

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP41 TO CP303

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 5.0 ft/sec

Actual vel = 1.1

NSTPS	–	–1	0
RS	7 30	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	9830	.0056

$$= \frac{1094 - 1039}{9830}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1300	1510	1660	1850	1890	1940	2100
RY	1080.5	1079	1080.5	1080	1080	1081	1080.5	1081

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-1 to CP43-2

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec
Travel Time = .012 Time Int = 5 min
NSTPS = 1

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 175'
Channel n = .03 Slope = .005 ft/ft
Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
600	725	800	965	1000	1020	1030	1090

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1095	1094	1093.5	1093	1093	1094	1096	1097

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 2/22/91

ROUTING PARAMETERS

CP43-1 TO CP303A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 7.0 ft/sec

Actual vel = .37

	NSTPS	–	-1	0
RS	~~5~~ 48	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	5300	.0091

$$= \frac{1092 - 1044}{5300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1050	1170	1250	1380	1400	1450	1630
RY	1077	1075.8	1076.5	1076	1076	1076.5	1076	1077

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-2 to CP43-3

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .069 Time Int = 5 min

NSTPS = 1

NSTPS 1 $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS — -1 0

RC

Left Overbank n = .06 Length = 1000

Channel n = .03 Slope = .003 ft/ft

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
750	800	900	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096.5	1096	1094	1093	1093	1094	1096	1097

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP43-2 TO CP303A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 7.0 ft/sec

Actual vel = 2.3

NSTPS	–	–1	0
RS	8/8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	5300	.0091

$$= \frac{1092 - 1044}{5300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1090	1170	1250	1380	1400	1450	1630
RY	1077	1075.8	1076.5	1076	1076	1076.5	1076	1077

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-3 to CP43-4

METHOD USED - NORMAL DEPTH

Assume Vel = 6.0 ft/sec

CROSS-SECTION DATA

Travel Time = .008 Time Int = 5 min

NSTPS = Act. Vel =

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 300

Channel n = .03 Slope = .018

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	850	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096.5	1096	1094	1093	1093	1096	1097	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/22/91

ROUTING PARAMETERS

CP 43-3 TO CP 303A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 7.0 ft/sec

Actual vel = 1.2

NSTPS	–	–1	0
RS	~~8~~/13	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	4840	.0091

$$= \frac{1092 - 1044}{5300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1170	1240	1270	1440	1470	1490	1550
RY	1069	1068	1068.5	1068	1068	1068.5	1067.8	1068.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-4 to CP43-5

METHOD USED – NORMAL DEPTH

Assume Vel = 6.0 ft/sec

CROSS-SECTION DATA

Travel Time = .008 Time Int = 5 min

NSTPS =

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 180

Channel n = .03 Slope = .018

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	850	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096.5	1096	1094	1093	1093	1096	1097	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-5 to CP43-6

METHOD USED – NORMAL DEPTH

Assume Vel = 5.0 ft/sec

CROSS-SECTION DATA

Travel Time = .022 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank	n = .06	Length =	400
Channel	n = .03	Slope =	.0068
Right Overbank	n = .04		

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	850	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096	1094	1093	1092	1092	1094	1096	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-6 to CP43-7

METHOD USED – NORMAL DEPTH

Assume Vel = 50 ft/sec

CROSS-SECTION DATA

Travel Time = .008 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 150

Channel n = .03 Slope = .0162

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
750	800	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096	1094	1092	1090	1090	1092	1096	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-7 to CP43-8

METHOD USED – NORMAL DEPTH

Assume Vel = 50 ft/sec

CROSS-SECTION DATA

Travel Time = .015 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 275

Channel n = .03 Slope = .018 1/1

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
700	800	850	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1094	1093	1092	1090	1090	1092	1096	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP43-0 to CP43

METHOD USED – NORMAL DEPTH

Assume Vel = 4.0 ft/sec

CROSS-SECTION DATA

Travel Time = .035 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 500

Channel n = .03 Slope = .008

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	850	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1096	1092	1090	1088	1088	1090	1096	1097.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-25-90

ROUTING PARAMETERS

CP43 TO WT4

METHOD USED – NORMAL DEPTH

Assume Vel = 8.0 ft/sec
Travel Time = .138 Time Int = 5 min
NSTPS = 1

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank	n = .05	Length =	4000
Channel	n = .03	Slope =	.0083 ft/ft
Right Overbank	n = .05		

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	900	965	1000	1050	1100	1200	1300

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1076	1075	1075	1064	1064	1071	1071	1075

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

cp43 to cp45-1

METHOD USED – NORMAL DEPTH

Assume Vel = 50 ft/sec

CROSS-SECTION DATA

Travel Time = .025 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .06 Length = 450

Channel n = .03 Slope = .0042

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
800	900	930	970	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1088	1087	1086	1084	1084	1090	1094	1099

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP45-1 to CP45

METHOD USED – NORMAL DEPTH

Assume Vel = 50 ft/sec

CROSS-SECTION DATA

Travel Time = .039 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .04 Length = 700

Channel n = .03 Slope = .0042

Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
850	900	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1086	1085	1084	1083	1083	1086	1090	1091

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP45 to CP46-1

METHOD USED - NORMAL DEPTH

Assume Vel = 5.0 ft/sec
Travel Time = .028 Time Int = 5 min
NSTPS = 1

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank	n = .04	Length = 500
Channel	n = .03	Slope = .0031 ft/ft
Right Overbank	n = .04	

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
850	900	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1083	1082	1081	1080	1080	1082	1083	1084

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-24-90

ROUTING PARAMETERS

CP46-1 to CP46

METHOD USED – NORMAL DEPTH

Assume Vel = 5.0 ft/sec
Travel Time = .092 Time Int = 5 min
NSTPS = 1

CROSS-SECTION DATA

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .04 Length = 1650
Channel n = .03 Slope = .0057 ft/ft
Right Overbank n = .04

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
700	900	930	965	1000	1020	1030	1040

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1076	1075	1075	1074	1074	1078	1080	1082

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-25-90

ROUTING PARAMETERS

CP 43-4, -5, -6, -7, -8, 45, 45-1, 46-1 TO CP WT#4

METHOD USED – NORMAL DEPTH

Assume Vel = 6.0 ft/sec

CROSS-SECTION DATA Travel Time = Time Int = 5 min

NSTPS = Act. Vel =

NSTPS $.625 \le \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \le 25$

RS — -1 0

RC

Left Overbank n = .045 Length = 4200 ft

Channel n = .03 Slope = .0111 ft/ft

Right Overbank n = .045

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
900	940	970	990	1000	1020	1060	1100

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1064	1063	1062	1060	1060	1062	1063	1064

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 7-25-90

ROUTING PARAMETERS

CP46 TO WT4

METHOD USED - NORMAL DEPTH

Assume Vel = 10.0 ft/sec

CROSS-SECTION DATA

Travel Time = .189 Time Int = 5 min

NSTPS = 1

NSTPS $.625 \leq \frac{\text{Travel Time} \times 60}{\text{Time Int.} \times \text{NSTPS}} \leq 25$ Act. Vel =

RS 1 — -1 0

RC

Left Overbank n = .03 Length = 6800 ft

Channel n = .03 Slope = .0067 ft/ft

Right Overbank n = .05

RX

LOB	LOB	LB	CH	CH	RB	ROB	ROB
910	930	940	950	1000	1020	1200	1400

RY

LOB	LOB	LB	CH	CH	RB	ROB	ROB
1065	1064	1064	1060	1060	1064	1064	1065

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-18-98

ROUTING PARAMETERS

CP100A TO CP100

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{6500}{.94 \times 300} = 23$$

Time Interval = 5 min Assumed Vel = 1.0 ft/sec

Actual Vel. = .94

	NSTPS			
RS	23	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.1	.1	.1	6500	.0058

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1350	1550	1825	1950	2200	2500
RY	1280	1279.5	1279	1278	1278	1279	1280	1280.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP100 TO CP109

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$$\text{Ave Area} = \frac{\text{Ave. Storage}}{\text{Reach Length}} \times 43560 = \text{SQ. FT}$$

$$A = \frac{\frac{441+852}{2}}{6942} = 406 \text{ sq ft}$$

$\therefore$ NSTPS = 8

Actual vel = 1.0 ft/sec

$$V = \frac{\text{Ave } Q}{\text{Ave } A} = \frac{385}{406} = 1.0 \text{ ft/sec}$$

NSTPS = 23

	NSTPS			
	~~8~~ 23			
RS		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.10	.10	.10	6942	.0058

$$= \frac{1285-1245}{6942}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1350	1550	1825	1950	2200	2500
RY	1280	1279.5	1279	1278	1278	1279	1280	1280.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 101 TO CP 102

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$$A = \frac{\frac{33+35}{2} \times 43560}{2750} = 54 \text{ sq ft}$$

∴ NSTPS = 2

$$V = \frac{Q}{A} = \frac{223}{54} = 4.13 \text{ ft/sec}$$

Actual vel = 4.13

NSTPS = 2.2 ≈ OK

NSTPS = 2 ≈ OK

	NSTPS	–	–1	0
RS	2	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.025	.022	.022	2750	.0062

$$= \frac{1322 - 1305}{2750}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1050	1085	1120	1138	1139	1140
RY	1319	1319	1318	1316	1316	1317	1317	1317

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP102 TO CP108

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{1495}{7020} \times 43560 = 928$

$\therefore$ NSTPS = 8

$V = \frac{Q}{A} = \frac{608}{928} = .65$ ft/sec

Actual vel = .65 ft/sec

$NSTPS = \frac{7020}{.65 \times 300} = 36$

$\therefore$ NSTPS = 36

	NSTPS	–	–1	0
RS	~~8~~ 36	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	7020	.0054

$= \frac{1305 - 1267}{7020}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1120	1700	2030	2630	3070	3270
RY	1289	1289	1288	1286	1286	1288	1290	1292

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 103 TO CP108

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

∴ NSTPS = 6

$A = \frac{9.1}{5380} \times 4360 = 7.6$ sqft

Actual vel = 4.9 ft/sec

$V = \frac{Q}{A} = \frac{360}{7.6} = 4.9$ ft/sec

∴ NSTPS = 3.66

	NSTPS			
RS	4 ~~6~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.022	.035	5380	.0041

$= \frac{1289 - 1267}{5380}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1050	1080	1095	1130	1150	1300	1830
RY	1285	1284	1282	1280	1280	1282	1284	1286

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP104 TO CP112

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3 ft/sec

$A = \frac{5087}{6552} \times 43560 = 338$

$V = \frac{139}{338} = .41$ ft/sec

∴ NSTPS = 7

Actual vel = .41 ft/sec

∴ NSTPS = 53

	NSTPS			
		–	–1	0
RS	~~7~~ 53	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	6552	.0056

$= \frac{1324 - 1287}{6552}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1230	1270	1750	2000	2380	2650
RY	1321	1321	1320	1318	1318	1319	1318	1320

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP105 TO CP112

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{8.1}{5200} \times 43560 = 67.7$ sq ft

$\therefore$ NSTPS = 6

$V = \frac{383}{67.7} = 5.6$ ft/sec

Actual vel = 5.6 ft/sec

$\therefore$ NSTPS = 3.1

	NSTPS			
RS	~~6~~ 3	–	–1	0
			–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.03	5220	.0044

$= \frac{1310 - 1287}{5220}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1010	1020	1040	1050	1099	1100
RY	1303	1303	1303	1302	1302	1304	1305	1305

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 8 - 90

ROUTING PARAMETERS

CP 106 TO CP 107

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{23.6}{5382} \times 43560 = 190\ ft^2$

$\therefore$ NSTPS = 6

$V = \frac{Q}{A} = \frac{1112}{190} = 5.8\ ft/sec$

Actual vel = 5.8 ft/sec

$\therefore$ NSTPS = 3.1

NSTPS	3 ~~6~~	–	–1	0
RS		–	–1	0

	N left	N chan	N right	length	Slope
RC	.075	.03	.03	5382	.0039

$= \frac{1298 - 1277}{5382}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1430	1860	1890	1940	1960	1969	1970
RY	1292	1291	1290	1289.5	1289.5	1290	1290.5	1290.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 107 TO CP 115

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{618}{6240} \times 43560 = 432 \text{ ft}^2$

$V = \frac{1443}{432} = 3.3 \text{ ft/sec}$

∴ NSTPS = 7

Actual vel = 3.3 ft/sec

∴ NSTPS = 6.2

	NSTPS			
	~~7~~ 6	–	–1	0
RS		–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.035	6240	.0048

$= \frac{1297 - 1247}{6240}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1100	1370	1900	2290
RY	1259	1259	1259	1258	1258	1260	1262	1264

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP108 TO CP115

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{424}{5382} \times 43560 = 343$

$\therefore$ NSTPS = 6 $\qquad V = \frac{921}{343} = 2.68$ ft/sec

Actual vel = 2.68 ft/sec

$\therefore$ NSTPS = 6.7

	NSTPS	—	-1	0
RS	~~6~~ 7	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5382	.00037

$= \frac{1267-1247}{5382}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1100	1370	1900	2290
RY	1259	1259	1259	1258	1258	1260	1262	1264

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 109 TO CP 116

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{525}{5694} \times 43560 = 440$

$\therefore$ NSTPS = 6

$V = \frac{842}{440} = 1.91$ ft/sec

Actual vel = 1.91 ft/sec

$\therefore$ NSTPS = 9.9

	NSTPS			
	~~6~~ 10	—	-1	0
RS		—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.075	5694	.00416

$= \frac{1245 - 1219}{5694}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1060	1270	1610	1900	2000
RY	1243	1243	1243	1242	1242	1244	1246	1247

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP110 TO CP117

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{201}{4212} \times 43560 = 208\ ft^2$

$\therefore$ NSTPS = 5

$V = \frac{286.5}{208} = 1.38\ ft/sec$

Actual vel = 1.38 ft/sec

$\therefore$ NSTPS = 10.2

NSTPS	–	–1	0	
RS	~~5~~ 10	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.05	.05	.075	4212	.0050

$= \frac{1224-1203}{4212}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1240	1740	2320	2670
RY	1223	1223	1223	1222	1222	1224	1226	1228

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP111 TO CP119

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{12}{5250} \times 43560 = 99.6\ ft^2$

$\therefore$ NSTPS = 6

$V = \frac{170.5}{99.6} = 1.71$ ft/sec

Actual vel = 1.71 ft/sec

$\therefore$ NSTPS = 10.2

NSTPS	10 ~~6~~	–	–1	0
RS		–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5250	.0034

$= \frac{1308 - 1290}{5250}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1100	1320	1540	1730
RY	1301	1301	1301	1300	1300	1302	1304	1306

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP111 TO CP112

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{18.2}{5280} \times 43560 = 150\ ft^2$

∴ NSTPS = 6

$V = \frac{288.5}{150} = 1.92$ ft/sec

Actual vel = 1.92 ft/sec

∴ NSTPS = 8.8

	NSTPS	—	-1	0
RS	~~6~~ 9	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	5280	.0040

$= \frac{1308 - 1287}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1570	2040	2370	2440	2468	2469	2470
RY	1312	1310	1308	1306	1306	1307	1307	1307

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 112 TO CP113A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$$A = \frac{15.95}{2640} \times 43560 = 263$$

$$V = \frac{Q}{A} = \frac{362}{263} = 1.38 \text{ ft/sec}$$

∴ NSTPS = 4

Actual vel = 1.38 ft/sec

∴ NSTPS = 6.4

	NSTPS	–	-1	0
RS	~~4~~ 6	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	2640	.0023

$$= \frac{1287 - 1281}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1490	1830	2600	2770	2788	2789	2790
RY	1290	1288	1286	1284	1284	1285	1285	1285

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP 112 TO CP120

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{19.5}{5270} \times 43560 = 161 \text{ ft}^2$

$V = \frac{360}{161} = 2.2$ ft/sec

∴ NSTPS = 6

Actual vel = 2.2 ft/sec

∴ NSTPS = 7.9

NSTPS	8	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5270	.0044

$= \frac{1287 - 1264}{5270}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1040	1340	1820	2030
RY	1281	1281	1281	1280	1280	1282	1284	1286

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 5 - 90

ROUTING PARAMETERS

CP112 TO CP121A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{15.3}{7722} \times 45560 = 86\ ft^2$

$V = \frac{388}{86} = 4.5\ ft/sec$

$\therefore$ NSTPS = 7

Actual vel = 4.5 ft/sec

$\therefore$ NSTPS = 5.7

	NSTPS			
	6	–	-1	0
RS	7	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.022	.05	6700	.0034

$= \frac{1287 - 1264}{6700}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1180	1205	1225	1295	1320	1345	1670
RY	1265	1264	1262	1260	1260	1262	1264	1265

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 8 - 90

ROUTING PARAMETERS

CP113 TO CP114

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{5.3}{2100} \times 43560 = 110 ft^2$

$V = \frac{125}{110} = 1.13$ ft/sec

∴ NSTPS = 2

Actual vel = 1.13 ft/sec

∴ NSTPS = 6.2

	NSTPS	–	–1	0
RS	~~2~~ 6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.04	.04	2100	.0038

$= \frac{1264 - 1256}{2100}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1020	1100	1850	2030	2048	2049	2050
RY	1266	1264	1262	1260	1260	1261	1261	1261

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP113 TO CP122

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{98.9}{7488} \times 43560 = 576\ ft^2$

$\therefore$ NSTPS = 8 $\qquad V = \frac{402}{576} = .70\ ft/sec$

Actual vel = .70 ft/sec

$\therefore$ NSTPS = 35.6

	NSTPS			
RS	~~8~~ 36	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	7488	.0049

$= \frac{1264-1227}{7488}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1610	1820	1990	2010	3059	3060
RY	1248	1248	1246	1245	1245	1246	1248	1248

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP113A TO CP113

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{462}{5280} \times 43560 = 653\ ft^2$

$V = \frac{462}{653} = .71$ ft/sec

∴ NSTPS = 5.8

Actual vel = .71 ft/sec

∴ NSTPS = 24.7

NSTPS	~~6~~ 25	–	–1	0
RS		–	–1	0

	Ndeft	Nchan	Nright	Length	Slope
RC	.075	.085	.035	5280	.0032

$$= \frac{1281 - 1264}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1080	2620	2725	2735	2798	2799	2800
RY	1278	1277	1277	1276	1276	1277	1277	1277

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/27/91

ROUTING PARAMETERS

CP113A TO CP121A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel =

	NSTPS			
		–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.025	.05	5280	.0047

$$= \frac{1281 - 1256}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1170	1200	1290	1500
RY	1278	1278	1278	1276	1276	1278	1279	1280

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP114 TO CP122

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{27.3}{6240} \times 43560 = 191$

Assume V_{av} = .30 ft/sec

$V = \frac{87.5}{191} = .46$ ft/sec

∴ NSTPS = 7

Actual vel = .46 ft/sec

∴ NSTPS = 45.3

	NSTPS			
	~~45~~			
RS	~~7~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	6240	.0046

$= \frac{1256-1227}{6240}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1610	1820	1990	2010	3059	3060
RY	1248	1248	1246	1245	1245	1246	1248	1248

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP114 TO CP115

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{4.0}{2652} \times 43560 = 66.4$

$V = \frac{314}{66.4} = 4.7$ ft/sec

∴ NSTPS = 3

Actual vel = 4.7 ft/sec

∴ NSTPS = 1.9

	NSTPS			
RS	~~3~~ 2	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.06	.022	.035	2652	.0034

$= \frac{1256 - 1247}{2652}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1380	1790	1800	1840	1850	1899	1900
RY	1258	1256	1254	1250	1250	1252	1253	1253

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8 -90

ROUTING PARAMETERS

CP115 TO CP122

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{806}{5280} \times 4360 = 665 ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{2126}{665} = 3.2 ft/sec$

∴ NSTPS = 6

Actual vel = 3.2 ft/sec

∴ NSTPS = 5.5 ∴ OK

NSTPS		–	-1	0
RS	6	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0038

$= \frac{1247 - 1227}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1035	1360	1920	2460
RY	1239	1239	1239	1238	1238	1240	1241	1242

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP116 TO CP117

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{20.9}{4300} \times 43560 = 211\ ft^2$

$\therefore$ NSTPS = 5 $\qquad V = \frac{842}{211} = 3.98\ ft/sec$

Actual vel = 3.98 ft/sec

$\therefore$ NSTPS = 3.6

	NSTPS			
	4	–	–1	0
RS	1	–	–1	0

	N left	N chan	N right	length	Slope
RC	.05	.022	.022	4300	.0037

$$= \frac{1219 - 1203}{4300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1155	1185	1200	1240	1295
RY	1220	1220	1220	1218	1218	1218.5	1218	1221

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-5-90

ROUTING PARAMETERS

CP117A TO CP117

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{51}{2000} \times 43560 = 110 ft^2$

$V = \frac{200}{110} = 1.81 ft/sec$

∴ NSTPS = 2

Actual vel = 1.81 ft/sec

∴ NSTPS = 3.7

	NSTPS			
RS	~~2~~ 4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.06	2000	.0060

$= \frac{1215 - 1203}{2000}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1090	1670	1850	2060
RY	1212.5	1212.5	1212.5	1212	1212	1214	1215	1216

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP117 TO CP125

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.10 ft/sec

$A = \frac{42.7}{5450} \times 43560 = 342$

$V = \frac{1364}{342} = 4.0$ ft/sec

∴ NSTPS = 6

Actual vel = 4.0 ft/sec

∴ NSTPS = 4.6

	NSTPS	–	–1	0
RS	~~6~~ 5	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.022	.022	.025	5450	.0033

$= \frac{1203 - 1185}{5450}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1060	1355	1765	1910
RY	1197	1197	1197	1196	1196	1198	1200	1201

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP118 TO CP126

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{10.9}{6708} \times 43560 = 70.5 ft^2$

$\therefore$ NSTPS = 7

$V = \frac{Q}{A} = \frac{85}{70.5} = 1.2$ ft/sec

Actual vel. = 1.2 ft/sec

$\therefore$ NSTPS = 18.6

	NSTPS			
	19	—	-1	0
RS	~~7~~	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	6708	.0049

$= \frac{1198 - 1165}{6708}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1030	1140	1260	1660	2349	2350
RY	1192.5	1192.5	1192	1190	1190	1191	1192	1192

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP119 TO CP128

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{11.7}{2640} \times 43560 = 193\ ft^2$

$V = \frac{440}{193} = 2.3\ ft/sec$

∴ NSTPS = 4

Actual vel = 2.3 ft/sec

∴ NSTPS = 3.9 ∴ OK

	NSTPS				
RS	4	–	–1	0	

	N left	N chan	N right	Length	Slope
RC	.035	.035	.06	2640	.0015

$= \frac{1290-1286}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1045	1085	1460	1710
RY	1287	1287	1287	1286	1286	1288	1290	1292

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP119 TO CP119A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{134}{2640} \times 4 \times 560 = 220 ft^2$

Assume V_{av} = 2.0 ft/sec

$V = \frac{306}{220} = 1.4 ft/sec$

∴ NSTPS = 4

Actual vel = 1.4 ft/sec

∴ NSTPS = 6-3

	NSTPS			
RS	~~4~~ 6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0015

$= \frac{1290-1286}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1450	1800	1820	1838	1839	1840
RY	1292	1292	1290	1288	1288	1289	1289	1289

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP119A TO CP120

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 5.0 ft/sec

$A = \frac{8.6}{2300} \times 45560 = 163 ft^2$

$V = \frac{642}{163} = 3.9 ft/sec$

∴ NSTPS = 2

Actual vel = 3.9 ft/sec

∴ NSTPS = 1.9 ∴ OK

	NSTPS	–	–1	0
RS	2	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.035	2300	.0096

$= \frac{1286-1264}{2300}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1180	1200	1213	1214	1215
RY	1278	1278	1278	1276	1276	1277	1277	1277

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP 119A TO CP 130

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec $\qquad A = \frac{0}{6318} \times 45660 = 0$

∴ NSTPS = 5 $\qquad V = \frac{0}{0} = 0$

Actual vel = 0

No Flow ∴ OK

	NSTPS	–	–1	0
RS	5	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	6318	.0062

$$= \frac{1286 - 1247}{6318}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1400	1770	2240	3260	3468	3469	3470
RY	1272	1270	1268	1266	1266	1267	1267	1267

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP120 TO CP130

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{38}{5280} \times 43560 = 314 ft^2$

$V = \frac{1066}{314} = 3.4 ft/sec$

∴ NSTPS = 6

Actual vel = 3.4 ft/sec

∴ NSTPS = 52

	NSTPS			
	5	–	-1	0
RS	~~6~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.030	.030	.06	5280	.0032

$= \frac{1264 - 1247}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1040	1090	1520	1830
RY	1261	1261	1261	1260	1260	1262	1264	1266

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-31-90

ROUTING PARAMETERS

CP121A TO CP121

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{6200}{3.0 \times 300} = 7$$

Time Interval = 5 min Assumed Vel = 30 ft/sec

Actual Vel. = 4.7 ft/sec $A = \frac{9.47}{2640} \times 43560 = 156\ ft^2$

NSTPS = 44 $V = \frac{730}{156} = 4.7\ ft/sec$

	NSTPS			
RS	4	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	2640	.0096

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1180	1200	1273	1214	1215
RY	1278	1278	1278	1276	1276	1277	1277	1277

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP121 TO CP131

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{439}{5280} \times 43560 = 362\ ft^2$

$V = \frac{946}{362} = 2.6\ ft/sec$

∴ NSTPS = 6

Actual vel = 2.6 ft/sec

∴ NSTPS = 6.7

	NSTPS			
	7	–	-1	0
RS	~~6~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0055

$= \frac{1249 - 1220}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1050	1115	1450	1910	1570
RY	1239	1239	1239	1238	1238	1239	1240	1242

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP 122 TO CP133

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{19.89}{5280} \times 43560 = 164\ ft^2$

$V = \frac{195}{164} = 1.2\ ft/sec$

∴ NSTPS = 6

Actual vel = 1.2 ft/sec

∴ NSTPS = 14.8

	NSTPS	–	-1	0
RS	~~6~~ 15	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.075	5280	.0040

$= \frac{1227 - 1206}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1235	1600	2030	2220
RY	1219	1219	1219	1218	1218	1220	1222	1224

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP122 TO CP134

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{97.9}{6700} \times 43560 = 637\ ft^2$

$V = \frac{1873}{637} = 2.9$ ft/sec

∴ NSTPS = 7

Actual vel = 2.9 ft/sec

∴ NSTPS = 7.6

NSTPS	–	–1	0	
RS	~~7~~ 8	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.040	.040	.075	6700	.0051

$= \frac{1227 - 1193}{6700}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1045	1150	1570	1960	2350
RY	1209	1209	1209	1208	1208	1210	1212	1214

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP123 TO CP134

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.10 ft/sec

∴ NSTPS = 6

Actual vel = OK

A = 0

V = 0

Q = 0

	NSTPS	–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.075	5280	.0038

$$= \frac{1213 - 1193}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1045	1150	1570	1960	2350
RY	1209	1209	1209	1208	1208	1210	1212	1214

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP123 TO CP124

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{11.15}{2640} \times 43560 = 184$

$V = \frac{361}{184} = 2.0$ ft/sec

∴ NSTPS = 3

Actual vel = 2.0 ft/sec

∴ NSTPS = 4

	NSTPS			
	4	–	-1	0
RS	5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	2640	.0038

$= \frac{1213 - 1203}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1350	1690	2040	2130	2148	2149	2150
RY	1216	1214	1212	1210	1210	1211	1211	1211

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP 124 TO CP135

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{10.3}{5280} \times 43560 = 85\ ft^2$

$V = \frac{150}{85} = 1.76\ ft/sec$

∴ NSTPS = 6

Actual vel = 1.76 ft/sec

∴ NSTPS = 10

	NSTPS			
	~~6~~ 10	–	–1	0
RS	~~6~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.00042

$= \frac{1203 - 1181}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1070	1360	1800	2190
RY	1195	1195	1195	1194	1194	1196	1198	1200

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP124 TO CP136

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{69}{6084} \times 43560 = 494$

$V = \frac{200}{494} = .40$ ft/sec

∴ NSTPS = 7

Actual vel = .40 ft/sec

∴ NSTPS = 50

NSTPS	–	-1	0	
RS	~~7~~ 50	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.07	.07	.07	6084	.0053

$= \frac{1203-1171}{6084}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1260	2160	2448	2449	2450
RY	1193	1193	1193	1192	1192	1193	1193	1193

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP 124 TO CP 125

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{9.5}{5280} \times 43560 = 78 ft^2$

$V = \frac{196}{78} = 2.5$ ft/sec

∴ NSTPS = 6

Actual vel = 2.5 ft/sec

∴ NSTPS = 7

NSTPS	~~6~~ 7	–	–1	0
RS		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.022	.022	5280	.0034

$= \frac{1203 - 1185}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1220	1400	1660	1680	1708	1709	1710
RY	1200	1198	1196	1194	1194	1195	1195	1195

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP125 TO CP137

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\quad A = \frac{284}{5280} \times 43560 = 236\ ft^2$

$\therefore$ NSTPS = 6 $\quad V = \frac{534}{236} = 2.26\ ft/sec$

Actual vel = 2.26 ft/sec

$\therefore$ NSTPS = 7.8

	NSTPS	–	-1	0
RS	~~6~~ 8	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0047

$$= \frac{1185 - 1160}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1175	1640	2135	2600
RY	1171	1171	1171	1169.5	1170	1172	1174	1176

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP125 TO CP126

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{14}{5280} \times 43560 = 115 ft^2$

$\therefore$ NSTPS = 6

$V = \frac{543}{115} = 4.7 ft/sec$

Actual vel = 4.7 ft/sec

$\therefore$ NSTPS = 3.7

	NSTPS			
RS	~~6~~ 4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.03	.03	5280	.0038

$= \frac{1185 - 1165}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1350	1570	1590	1630	1645	1650	1670
RY	1184	1182	1180	1176	1176	1180	1182	1183

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP125 TO CP138

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{1308}{7500} \times 43560 = 760$

$\therefore$ NSTPS = 8 $\qquad V = \frac{390}{760} = .5$ ft/sec

Actual vel = .5 ft/sec

$\therefore$ NSTPS = 50

	NSTPS			
	~~8~~ 50	–	-1	0
RS	~~8~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	7500	.0048

$$= \frac{1185 - 1149}{7500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1050	1100	1200	2020	2198	2250	2300
RY	1171	1170.5	1170.5	1170	1170	1170.5	1170.5	1171

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 10-8-90

ROUTING PARAMETERS

CP126 TO CP138

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{57.8}{5280} \times 43520 = 428\ ft^2$

$V = \frac{978}{428} = 2.3\ ft/sec$

∴ NSTPS = 6

Actual vel = 2.3 ft/sec

∴ NSTPS = 7.7

	NSTPS	–	–1	0
RS	~~6~~ 8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	5280	.0030

$= \frac{1165 - 1149}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1180	1560	2020	2200
RY	1161	1161	1161	1160	1160	1162	1164	1165

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP127 TO CP139

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{625}{3744} \times 43560 = 727\ ft^2$

∴ NSTPS = 4

$V = \frac{317}{727} = .44\ ft/sec$

Actual vel = .44 ft/sec

∴ NSTPS = 28.6

	NSTPS			
RS	~~4~~ 29	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	3744	.0032

$= \frac{1160 - 1148}{3744}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1410	1820	2410	2860	3000
RY	1155	1155	1155	1154	1154	1156	1158	1159

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 8 - 90

ROUTING PARAMETERS

CP128 TO CP130

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval $l = 5$ min $= 300$ sec

Assume $V_{av} = 4.0$ ft/sec

$A = \frac{109.7}{6240} \times 43560 = 766 ft^2$

$\therefore NSTPS = 5$

$V = \frac{422}{766} = .55$ ft/sec

Actual vel = ~~.55~~ ft/sec

$\therefore NSTPS = 37.8$

	NSTPS			
	~~5~~ 38	–	–1	0
RS		–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	6240	.0062

$= \frac{1286 - 1247}{6240}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1400	1770	2240	3260	3468	3469	3470
RY	1272	1270	1268	1266	1266	1267	1267	1267

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP129 TO CP130

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{225}{5280} \times 43560 = 227 ft^2$

$V = \frac{468}{227} = 2.06$ ft/sec

∴ NSTPS = 4

Actual vel = 2.06 ft/sec

∴ NSTPS = 8.5

	NSTPS			
RS	~~4~~ 9	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	5280	.0060

$= \frac{1279-1247}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1250	1450	2070	2080	2098	2099	2100
RY	1270	1268	1266	1264	1264	1265	1265	1265

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 8 - 90

ROUTING PARAMETERS

CP130 TO CP131A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{475}{5280} \times 43560 = 784\ ft^2$

$V = \frac{892}{784} = 1.14$ ft/sec

∴ NSTPS = 3

Actual vel = 1.14 ft/sec

∴ NSTPS = 3.7

	NSTPS			
	8	–	–1	0
RS	3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.04	.04	2640	.0057

$= \frac{1247 - 1232}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1640	2050	2290	2328	2329	2330
RY	1234	1234	1232	1230	1230	1231	1231	1231

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-8-90

ROUTING PARAMETERS

CP130 TO CP144

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\quad A = \frac{35}{5280} \times 43560 = 289\ ft^2$

$\therefore$ NSTPS = 6 $\quad V = \frac{715}{289} = 2.47\ ft/sec$

Actual vel = 2.47 ft/sec

$\therefore$ NSTPS = 7.1

NSTPS	7	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0045

$$= \frac{1247 - 1221}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1110	1570	2080	2370
RY	1239	1239	1239	1238	1238	1240	1242	1244

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-31-90

ROUTING PARAMETERS

CP131A TO CP131

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}}$$

Time Interval = 5 min Assumed Vel = 3.0 ft/sec

Actual Vel. = 1.14 ft/sec

∴ NSTPS = 27

	NSTPS			
RS	8	—	-1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.075	.04	.04	2640	.0051

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1640	2050	2290	2328	2329	2330
RY	1234	1231	1232	1230	1230	1231	1231	1231

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP131 TO CP145

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{64.3}{5280} \times 43560 = 530$

$V = \frac{1138}{530} = 2.14$ ft/sec

∴ NSTPS = 6

Actual vel = 2.14 ft/sec

∴ NSTPS = 8.2

	NSTPS			
RS	~~6~~ 8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.040	.040	.075	5280	.0043

$= \frac{1220 - 1197}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1050	1820	2210	2230
RY	1213	1213	1213	1212	1212	1214	1216	1218

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP131 TO CP132

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{29}{2150} \times 43560 = 160 ft^2$

∴ NSTPS = 4

$V = \frac{266}{160} = 1.67 ft/sec$

Actual vel = 1.67 ft/sec

∴ NSTPS = 4.3 ∴ OK

	NSTPS	—	-1	0
RS	4	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	2150	.0028

$= \frac{1220 - 1214}{2150}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1370	1760	2150	2165	2173	2174	2175
RY	1224	1222	1220	1218	1218	1219	1219	1219

The WLB Group Inc WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 10-9-90

ROUTING PARAMETERS

CP132 TO CP133

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{16.4}{2640} \times 43560 = 270 ft^2$

$V = \frac{435}{270} = 1.61$ ft/sec

∴ NSTPS = 3

Actual vel = 1.61 ft/sec

∴ NSTPS = 5.5

	NSTPS				
	~~3~~ 5		-1	0	
RS	~~3~~		-1	0	

	Ndeft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	2640	.0030

$= \frac{1214 - 1206}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1400	1670	2050	2230	2258	2259	2260
RY	1218	1216	1214	1212	1212	1213	1213	1213

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 9 - 90

ROUTING PARAMETERS

CP133 TO CP146

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$$A = \frac{11.9}{5280} \times 43560 = 98\ ft^2$$

$$V = \frac{216}{98} = 2.2\ ft/sec$$

∴ NSTPS = 4

Actual vel = 2.2 ft/sec

∴ NSTPS = 8

	NSTPS			
RS	~~4~~ 8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	5280	.0068

$$= \frac{1806 - 1170}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1080	1440	1740	2130
RY	1187	1187	1187	1186	1186	1188	1190	1192

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP133 TO CP147

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{39.2}{6552} \times 43560 = 261\ ft^2$

$V = \frac{104}{261} = .40\ ft/sec$

∴ NSTPS = 5

Actual vel = .40 ft/sec

∴ NSTPS = ~~55~~

NSTPS	~~55~~	–	–1	0
RS	~~5~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.07	.07	6552	.0063

$= \frac{1206 - 1165}{6552}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1720	1900	2290	2460	2619	2620
RY	1189	1189	1188	1187.5	1187.5	1188	1189	1189

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP133 TO CP134

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Inerval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{5.4}{2640} \times 43560 = 89 ft^2$

$V = \frac{188}{89} = 211$ ft/sec

∴ NSTPS = 3

Actual vel = 2.11 ft/sec

∴ NSTPS = 4.2

	NSTPS	–	-1	0
RS	~~3~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.06	.035	.035	2640	.0049

$= \frac{1206 - 1193}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1340	1600	1815	1860	1888	1889	1890
RY	1206	1204	1202	1200	1200	1203	1203	1203

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP134 TO CP147

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{79.5}{5280} \times 43560 = 656\ ft^2$

$V = \frac{1617}{656} = 2.47\ ft/sec$

∴ NSTPS = 6

Actual vel = 2.47 ft/sec

∴ NSTPS = 7

	NSTPS			
RS	~~6~~ 7	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.075	5280	.0053

$= \frac{1193 - 1165}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1190	1580	2180	2700
RY	1187	1187	1187	1186	1186	1188	1190	1192

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP134 TO CP135

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = ft/sec

$A = \frac{8.3}{2640} \times 43560 = 136$

$V = \frac{553}{136} = 4.05$ ft/sec

∴ NSTPS = 3

Actual vel = 4.05 ft/sec

∴ NSTPS = 2.2

	NSTPS			
RS	~~3~~ 2	–	–1	0
			–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.06	.03	.03	2640	.0045

$= \frac{1193 - 1181}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1490	1950	2015	2040	2048	2049	2050
RY	1194	1192	1190	1188	1188	1189	1189	1189

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP135 TO CP148

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{9.7}{5280} \times 43560 = 80\,ft^2$

$V = \frac{134}{80} = 1.68$ ft/sec

∴ NSTPS = 6

Actual vel = 1.68 ft/sec

∴ NSTPS = 10.5

	NSTPS	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0049

$= \frac{1181 - 1155}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1070	1130	1400	1780	2250
RY	1171	1171	1171	1170	1170	1172	1174	1176

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP135 TO CP136

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{17.2}{2640} \times 43560 = 284\ ft^2$

$V = \frac{629}{284} = 2.21$ ft/sec

∴ NSTPS = 3

Actual vel = 2.21 ft/sec

∴ NSTPS = 4

NSTPS	–	-1	0	
RS	4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0038

$= \frac{1181 - 1171}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1430	1790	2250	2275	2298	2299	2300
RY	1182	1180	1178	1176	1176	1177	1177	1177

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP136 TO CP137

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{23.3}{2640} \times 43560 = 385 ft^2$

$V = \frac{678}{385} = 1.76$ ft/sec

∴ NSTPS = 3

Actual vel = 1.76 ft/sec

∴ NSTPS = 5

	NSTPS			
	~~3~~ 5	–	–1	0
RS	~~3~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.035	.035	2640	.0042

$= \frac{1171 - 1160}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1370	1790	3210	3270	3298	3299	3300
RY	1170	1168	1166	1164	1164	1165	1165	1165

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 9 - 90

ROUTING PARAMETERS

CP137 TO CP149

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{11.3}{2640} \times 43560 = 186\ ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{371}{186} = 2.0\ ft/sec$

∴ NSTPS = 3

Actual vel = 2.0 ft/sec

∴ NSTPS = 4.4

NSTPS	4	–	–1	0
RS	~~3~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.05	2640	.0038

$= \frac{1160 - 1150}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1070	1470	1830	2350
RY	1157	1157	1157	1156	1156	1158	1160	1162

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP 137 TO CP 153

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{106.8}{5600} \times 43560 = 831 ft^2$

∴ NSTPS = 9

$V = \frac{304}{831} = .37 ft/sec$

Actual vel = .37 ft/sec

∴ NSTPS = 51

	NSTPS			
	51	—	-1	0
RS	~~9~~	—	-1	0

	Ndeft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	5600	.0018

$= \frac{1160 - 1150}{5600}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	900	1000	1200	1450	1800	2000	2300	2450 →
RY	1156.5	1156	1155	1154.7	1154.7	1155	1156	1156.5 →

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP137 TO CP138

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec $\qquad A = \frac{54.6}{5280} \times 43560 = 450$

$\therefore$ NSTPS = 9 $\qquad V = \frac{354}{450} = .79$ ft/sec

Actual vel = .79 ft/sec

$\therefore$ NSTPS = 22.3

	NSTPS			
RS	~~9~~ 22	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.03	.03	5280	.0021

$$= \frac{1160 - 1149}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	2200	2310	2320	2340	2368	2369	2370
RY	1162	1156	1156.5	1156	1156	1157	1157	1157

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-9-90

ROUTING PARAMETERS

CP138 TO CP154

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{59.7}{2640} \times 43560 = 974$

$V = \frac{555}{974} = .57$ ft/sec

∴ NSTPS = 4

Actual vel = .57 ft/sec

∴ NSTPS = 15.4

	NSTPS			
	~~15~~	–	-1	0
RS	~~4~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	2640	.0026

$= \frac{1149 - 1142}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1160	1840	2099	2100
RY	1145	1145	1145	1144	1144	1146	1148	1148

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 9 - 90

ROUTING PARAMETERS

CP138 TO CP157

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{31.7}{6708} \times 43560 = 206 ft^2$

$V = \frac{315}{206} = 1.53$ ft/sec

∴ NSTPS = 7

Actual vel = 1.53 ft/sec

∴ NSTPS = 14.6

	NSTPS	–	-1	0
RS	~~7~~ 15	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.04	.075	6708	.0051

$\frac{1149 - 1115}{6708}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1580	2290	2450	2710	2199	2200
RY	1140	1140	1138	1136	1136	1138	1140	1140

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 9 - 90

ROUTING PARAMETERS

CP139 TO CP156

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{269}{2028} \times 43560 = 577 ft^2$

$V = \frac{435}{577} = .75$ ft/sec

∴ NSTPS = 2

Actual vel = .75 ft/sec

∴ NSTPS = 9

	NSTPS			
	9			
RS	~~2~~	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.075	.075	.075	2028	.0059

$= \frac{1148 - 1136}{2028}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1310	1500	1610	1850	2020	3199	3200
RY	1147	1146	1144	1143	1143	1144	1146	1146

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 9 - 90

ROUTING PARAMETERS

CP141 TO CP141A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 5.0 ft/sec

$$A = \frac{3.0}{1650} \times 43560 = 79\ ft^2$$

$\therefore$ NSTPS = 1

$$V = \frac{522}{79} = 6.96\ ft/sec$$

Actual vel = 6.96 ft/sec

$\therefore$ NSTPS = 1 $\therefore$ OK

NSTPS	—	-1	0	
RS	1	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.025	.022	.022	1650	.0091

$$= \frac{1296 - 1281}{1650}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1580	2170	2200	2230	2248	2249	2250
RY	1194	1192	1190	1188	1188	1189	1189	1189

The WLB Group Inc WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP141A TO CP142

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{28}{2640} \times 43560 = 161 ft^2$

$V = \frac{636}{161} = 3.95 ft/sec$

∴ NSTPS = 2

Actual vel = 3.95 ft/sec

∴ NSTPS = 2 ∴ OK

	NSTPS	–	–1	0
RS	2	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.06	.035	.035	2640	.0079

$= \frac{1281 - 1260}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1620	2100	2220	2250	2268	2269	2270
RY	1276	1274	1272	1270	1270	1271	1271	1271

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP142 TO CP143

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{38.5}{2640} \times 43560 = 635\ ft^2$

$V = \frac{728}{635} = 1.15\ ft/sec$

∴ NSTPS = 2

Actual vel = 1.15 ft/sec

∴ NSTPS = 7.6

	NSTPS			
RS	~~2~~ 8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.022	.022	2640	.0075

$= \frac{1260 - 1240}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1800	2235	2250	2275	2288	2289	2290
RY	1250	1245	1247	1246	1246	1247	1247	1247

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP143 TO CP144

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec $\qquad A = \frac{9.9}{2640} \times 43560 = 164$

$\therefore$ NSTPS = 2 $\qquad V = \frac{738}{164} = 4.5$ ft/sec

Actual vel = 4.5 ft/sec

$\therefore$ NSTPS = 1.9 $\therefore$ OK

	NSTPS	–	-1	0
RS	2	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.02	.03	.03	2640	.0072

$$= \frac{1240 - 1221}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1490	2250	2370	2380	2398	2399	2400
RY	1238	1236	1234	1232	1232	1233	1233	1233

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP144 TO CP145A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{285}{2640} \times 45560 =$ ft^2

$V = \frac{1149}{940} = 2.44$ ft/sec

∴ NSTPS = 3

Actual vel = 1.22 ft/sec

∴ NSTPS = 7.2

	NSTPS	–	-1	0
	7			
RS	3	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2640	.0045

$= \frac{1221 + 1209}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1630	2095	2150	2198	2199	2200
RY	1220	1216	1216	1214	1214	1215	1215	1215

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP144 TO CP164A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{42.4}{6400} \times 43560 = 288\ ft^2$

$V = \frac{98}{288} = .36\ ft/sec$

∴ NSTPS = 5

Actual vel = .36 ft/sec

∴ NSTPS = 63

	NSTPS			
	63	–	–1	0
RS	5	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.07	.07	.07	6400	.0058

$= \frac{1221 - 1184}{6400}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1400	1910	2610	2669	2670
RY	1203	1203	1203	1202	1202	1204	1205	1205

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP145 TO CP146

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{29.6}{4850} \times 43560 = 266 ft^2$

$V = \frac{824}{266} = 3.1 ft/sec$

∴ NSTPS = 5

Actual vel = 3.1 ft/sec

∴ NSTPS = 5 ∴ OK

	NSTPS	–	–1	0
RS	5	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	~~.035~~	.035	.035	4850	.0056

$= \frac{1197 - 1170}{4850}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1320	1650	1930	1955	1968	1969	1970
RY	1192	1190	1188	1186	1186	1187	1187	1187

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. ADUED Date 10-10-90

ROUTING PARAMETERS

CP145 TO CP164

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{26.9}{5280} \times 43560 = 222 ft^2$

$V = \frac{548}{222} = 2.5 ft/sec$

∴ NSTPS = 6

Actual vel = 2.5 ft/sec

∴ NSTPS = 7.1

	NSTPS		-1	0
RS	~~6~~ 7		-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0058

$= \frac{1197 - 1166}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1170	1520	1910	2190
RY	1185	1185	1185	1184	1184	1186	1188	1190

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP145 TO CP165

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{1255}{7500} \times 43560 = 728 ft^2$

Assume V_{av} = 4.0 ft/sec

$V = \frac{480}{728} = .66 ft/sec$

∴ NSTPS = 6

Actual vel = .66 ft/sec

∴ NSTPS = 38

	NSTPS			
	~~6~~ 38	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	7500	.0069

$= \frac{1197 - 1145}{7500}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1420	1730	2220	2470	2999	3000
RY	1177	1177	1176	1175	1175	1176	1177	1177

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-31-90

ROUTING PARAMETERS

CP145A TO CP145

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2640}{3 \times 300} = 3$$

Time Interval = 5 min Assumed Vel = 3.0 ft/sec

Actual Vel. = 1.22 ft/sec

	NSTPS			
RS	7	—	-1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.075	.04	.04	2640	.0045

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1630	2095	2150	2198	2199	2200
RY	1220	1216	1216	1214	1214	1215	1215	1215

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP146 TO CP165

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{543}{5280} \times 43560 = 448\ ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{1093}{448} = 2.44$ ft/sec

∴ NSTPS = 6

Actual vel = 2.44 ft/sec

∴ NSTPS = 7.2

NSTPS	7 ~~6~~	–	–1	0
RS		–	–1	0

	Nleft	Nchan	Nright	length	slope
RC	.04	.04	.075	5280	.0047

$= \frac{1170-1145}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1035	1085	1570	2180	2500
RY	1159	1159	1159	1158	1158	1160	1162	1163

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP147 TO CP148

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{1.1}{2640} \times 43560 = 19 ft^2$

$V = \frac{38}{19} = 2.0$ ft/sec

∴ NSTPS = 3

Actual vel = 2.0 ft/sec

∴ NSTPS = 4.4

	NSTPS	–	-1	0
RS	~~3~~ 4	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2640	.0038

$= \frac{1165-1155}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1420	1800	2230	2340	2368	2369	2370
RY	1164	1162	1160	1158	1158	1159	1159	1159

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP147 TO CP166

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{278.1}{6240} \times 43560 = 1941\ ft^2$

$V = \frac{1379}{1941} = .71$ ft/sec

∴ NSTPS = 4

Actual vel = .71 ft/sec

∴ NSTPS = 29

	NSTPS			
RS	~~4~~ 29	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.08	.08	6240	.0042

$= \frac{1165 - 1139}{6240}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1220	1720	2460	2998	2999	3000
RY	1155	1155	1154	1152	1152	1153.5	1153.5	1153.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP148 TO CP166

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{10.4}{5280} \times 43560 = 85\ ft^2$

$\therefore$ NSTPS = 6 $\qquad V = \frac{259}{85} = 3.03\ ft/sec$

Actual vel = 3.03 ft/sec

$\therefore$ NSTPS = 6 $\therefore$ OK

	NSTPS	–	–1	0
RS	6	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.044	.044	.075	5280	.0030

$$= \frac{1155 - 1139}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1045	1330	2630	2380	2700
RY	1153	1153	1153	1152	1152	1154	1156	1157

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP148 TO CP150

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{3}{2640} \times 43560 = 36\ ft^2$

$V = \frac{47}{36} = 1.31\ ft/sec$

$\therefore$ NSTPS = 4

Actual vel = 1.3 ft/sec

$\therefore$ NSTPS = 6.7

	NSTPS			
	7	–	-1	0
RS	4	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	2640	.0026

$= \frac{1155 - 1148}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1350	1830	2240	2340	2368	2369	2370
RY	1158	1156	1154	1152	1152	1153	1153	1153

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP149 TO CP151

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{17.4}{2640} \times 43560 = 287 ft^2$

$V = \frac{488}{287} = 1.7 ft/sec$

NSTPS = 3

Actual vel = 1.70 ft/sec

∴ NSTPS = 5.2

NSTPS	~~5~~	–	–1	0
RS	~~3~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.07	2640	.0038

$= \frac{1150 - 1140}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1200	2050	2315	2350
RY	1143	1143	1143	1142	1142	1144	1146	1147

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP150 TO CP151

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{6.6}{2640} \times 43560 = 141 ft^2$

$V = \frac{191}{141} = 1.35 ft/sec$

∴ NSTPS = 3

Actual vel = 1.35 ft/sec

∴ NSTPS = 6.5

	NSTPS			
	6			
RS	~~3~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0030

$\frac{1148 - 1140}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1250	1720	2110	2300	2348	2349	2350
RY	1149	1148	1146	1144	1144	1145	1145	1145

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP151 TO CP167

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{16}{5280} \times 43560 = 132 ft^2$

$V = \frac{204}{132} = 1.55 ft/sec$

∴ NSTPS = 9

Actual vel = 1.55 ft/sec

∴ NSTPS = 11.4

NSTPS	—	-1	0	
RS	~~5~~ 11	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.07	5280	.0030

$= \frac{1140 - 1124}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1085	1500	1770	2400
RY	1129	1129	1129	1128	1128	1130	1132	1134

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP151 TO CP152

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{19}{2600} \times 43560 = 132\ ft^2$

$V = \frac{182}{132} = 1.38$ ft/sec

∴ NSTPS = 4

Actual vel = 1.38 ft/sec

∴ NSTPS = 6.3

	NSTPS			
	6	–	-1	0
RS	~~4~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.035	.035	2600	.0027

$= \frac{1140 - 1133}{2600}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1090	1710	2160	2240	2268	2269	2270
RY	1141	1140	1138	1136	1136	1137	1137	1137

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP151 TO CP168

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{638}{5928} \times 43560 = 469\ ft^2$

$V = \frac{165}{469} = .35$ ft/sec

∴ NSTPS = 7

Actual vel = .35 ft/sec

∴ NSTPS = 56

	NSTPS			
	56	–	–1	0
RS	~~7~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	5928	.0042

$= \frac{1140 - 1115}{5928}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1180	2100	2458	2459	2460
RY	1135	1135	1135	1134	1134	1135	1135	1135

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP152 TO CP168

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{19.5}{5280} \times 43560 = 161\ ft^2$

$V = \frac{292}{161} = 1.81\ ft/sec$

$\therefore$ NSTPS = 6

Actual vel = 1.81 ft/sec

$\therefore$ NSTPS = 9.7

NSTPS		-1	0	
RS	~~6~~ 10	-1	0	

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0034

$= \frac{1133 - 1115}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1110	1450	1880	2100
RY	1123	1123	1123	1122	1122	1124	1126	1127

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP152 TO CP155

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{2}{2640} \times 43560 = 3.1\ ft^2$

$V = \frac{2}{3.1} = .65\ ft/sec$

∴ NSTPS = 4

Actual vel = .65 ft/sec

∴ NSTPS = 13.6

NSTPS	~~4~~ 14	–	–1	0
RS		–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2640	.0019

$= \frac{1133 - 1128}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1580	2090	2360	2363	2364	2365
RY	1135.2	1134	1132	1130	1130	1131	1131	1131

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP152 TO CP169

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{31}{5928} \times 43560 = 228\ ft^2$

$\therefore$ NSTPS = 7

$V = \frac{2}{228} = .1$ ft/sec

Actual vel = .1 ft/sec

$\therefore$ NSTPS = 225

	NSTPS			
RS	7	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.08	.08	5928	.0040

$= \frac{1133 - 1109}{5928}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1190	2310	2898	2899	2900
RY	1121	1121	1121	1120	1120	1121	1121	1121

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-10-90

ROUTING PARAMETERS

CP154 TO CP157

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.40 ft/sec

$A = \frac{65.3}{5800} \times 43560 = 490 ft^2$

$V = \frac{498}{490} = 1.02 ft/sec$

∴ NSTPS = 3

Actual vel = 1.02 ft/sec

∴ NSTPS = 19

	NSTPS			
	19	–	-1	0
RS	~~3~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.07	.04	.07	5800	.0048

$= \frac{1142 - 1114}{5800}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1580	2290	2450	2710	3199	3200
RY	1140	1140	1138	1136	1136	1138	1140	1140

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP155 TO CP169

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{27.9}{5280} \times 43560 = 230\ ft^2$

$\therefore$ NSTPS = 6 $\qquad V = \frac{233}{230} = 1.01\ ft/sec$

Actual vel = 1.01 ft/sec

$\therefore$ NSTPS = 174

NSTPS	—	-1	0	
RS	17 ~~6~~	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.07	5280	.0036

$$= \frac{1128 - 1109}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1690	2220	2269	2270
RY	1117	1117	1117	1116	1116	1118	1119	1119

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP156 TO CP157

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$\therefore$ NSTPS = 7

Actual vel = .57 ft²

$\therefore$ NSTPS = 34.2

$A = \frac{\cancel{88.6}}{5850} \times 43560 = 660\ ft^2$

$V = \frac{376}{660} = .57\ ft^2$

	NSTPS	–	-1	0
RS	~~7~~ 34	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.075	5850	.0036

$= \frac{1136 - 1115}{5850}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1110	1400	1900	2320
RY	1133	1133	1133	1132	1132	1133	1131	1133

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP156A TO CP158

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{79.6}{5400} \times 43560 = 642\ ft^2$

$V = \frac{336}{642} = .52\ ft/sec$

∴ NSTPS = 6

Actual vel = .52 ft/sec

∴ NSTPS = 34.4

NSTPS	34 ~~6~~	–	–1	0
RS		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.07	.07	5400	.0030

$= \frac{1123 - 1107}{5400}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1380	2200	2838	2839	2840
RY	1117	1117	1117	1116	1116	1118	1118	1118

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP157 TO CP172

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{147}{1150} \times 43560 = 556 ft^2$

$V = \frac{Q}{A} = \frac{737}{556} = 1.33 ft/sec$

∴ NSTPS = 1

Actual vel = 1.33 ft/sec

∴ NSTPS = 2.9

NSTPS	3	–	-1	0
RS	1	–	-1	0

	N left	N chan	N right	length	Slope
RC	.035	.0122	.06	1150	.0035

$= \frac{1115 - 1111}{1150}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1020	1035	1075	1090	1210	1770
RY	1117	1117	1116	1114	1114	1115	1113	1117

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP158 TO CP133B

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{27.7}{4524} \times 43560 = 267\ ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{645}{267} = 2.42$ ft/sec

∴ NSTPS = 5

Actual vel = 2.42 ft/sec

∴ NSTPS = 6.2

	NSTPS			
	6	—	-1	0
RS	5	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.04	.07	4524	.0035

$= \frac{1107 - 1091}{4524}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1240	1360	1440	1500	1650	1750
RY	1113	1113	1112	1110	1110	1112	1114	1115

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/27/91

ROUTING PARAMETERS

CP158A TO CP158

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel =

	NSTPS	–	-1	0
RS	9	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.07	.035	.07	5300	.0028

$$= \frac{1118 - 1103}{5300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1235	1240	1290	1300	1345	1450
RY	1117	1117	1116	1114	1114	1116	1118	1119

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP 158A TO RCP 173B

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{9500}{5 \times 300} = 6.33$$

Time Interval = 5 min Assumed Vel = 5 ft/sec

Actual Vel. =

	NSTPS			
RS	6	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.04	.035	.04	9500	.005 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1110	1110	1110	1100	1100	1110	1110	1110

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/27/91

ROUTING PARAMETERS

CP158B TO CP158A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel =

	NSTPS	–	–1	0
RS	4	–	–1	0

	N left	N chan	N right	length	slope
RC	.035	.035	.035	2500	.0024

$$= \frac{1124 - 1118}{2500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1130	1200	1240	1315	1338	1339	1340
RY	1129	1128	1124	1122	1122	1126	1126	1126

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/27/91

ROUTING PARAMETERS

CP158C TO CP158B

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel =

	NSTPS	—	-1	0
RS	12	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.07	.035	.07	10770	.0056

$$= \frac{1184 - 1124}{10770}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1120	1600	1670	1688	1689	1690
RY	1062.5	1062.5	1062	1060	1060	1062.5	1062.5	1062.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP158D TO RCP158A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{7200}{4 \times 300} = 6$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. =

	NSTPS			
RS	6	—	—1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	7200'	.005 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1135	1135	1135	1125	1125	1135	1135	1135

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/27/91

ROUTING PARAMETERS

CP158E TO CP158D

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel =

	NSTPS	–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.03	3500	.0029

$$= \frac{1154 - 1144}{3500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1200	1240	1290	1310	1549	1550
RY	1151	1151	1150	1148	1148	1150	1151	1151

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP159 TO CP160

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{2.9}{830} \times 43560 = 153\ ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{681}{153} = 4.44\ ft/sec$

∴ NSTPS = 1

Actual vel = 4.44 ft/sec

∴ NSTPS = 16 ∴ OK

NSTPS	–	–1	0	
RS	1	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.022	.022	.025	830	.0036

$= \frac{1265 - 1262}{830}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1060	1150	1320	1440
RY	1265	1265	1265	1264	1264	1266	1268	1270

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP160 TO CP161

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{208}{2650} \times 43560 = 342\ ft^2$

$V = \frac{989}{342} = 2.9\ ft/sec$

∴ NSTPS = 3

Actual vel = 2.9 ft/sec

∴ NSTPS = 3.1 ∴ OK

	NSTPS			
RS	3	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2650	.0072

$= \frac{1262 - 1143}{2650}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1210	1630	1670	1688	1689	1690
RY	1259	1259	1258	1256	1256	1257	1257	1257

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. ADLAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP161 TO CP163

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{41.0}{5280} \times 43560 = 338\ ft^2$

$V = \frac{920}{338} = 2.72$ ft/sec

∴ NSTPS = 4

Actual vel = 2.72 ft/sec

∴ NSTPS = 6.5

	NSTPS			
RS	~~4~~ 6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	5280	.0074

$= \frac{1243 - 1204}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1900	1910	2455	2470	2488	2489	2490
RY	1226	1224	1222	1220	1220	1221	1221	1221

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP162 TO CP163

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{39}{5460} \times 43560 = 31 ft^2$

Assume V_{av} = 4.0 ft/sec

$V = \frac{69}{31} = 2.22 ft/sec$

∴ NSTPS = 5

Actual vel = 2.22 ft/sec

∴ NSTPS = 8.2

	NSTPS			
RS	~~5~~ 8	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	5460	.0062

$= \frac{1238 - 1204}{5460}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1500	1910	2455	2470	2488	2489	2490
RY	1226	1224	1222	1220	1220	1221	1221	1221

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP163 TO CP164A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{16.2}{2640} \times 43560 = 267\ ft^2$

$V = \frac{1016}{267} = 3.8\ ft/sec$

∴ NSTPS = 2

Actual vel = 3.8 ft/sec

∴ NSTPS = 4.6

	NSTPS			
	2			
RS	2	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.06	.035	.035	2640	.00718

$= \frac{1204 - 1184}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1410	1900	2110	2150	2168	2169	2170
RY	1188	1186	1184	1182	1182	1183	1183	1183

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP163 TO CP176A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec Q=0 A=0 V=0

∴ NSTPS = 6

Actual vel = 0
= OK

	NSTPS			
		–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0040

$$= \frac{1204 - 1183}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1025	1320	1620	1845
RY	1197	1197	1197	1196	1196	1198	1200	1202

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 13-31-90

ROUTING PARAMETERS

CP 164 ATO CP 164

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{2640}{3 \times 300} = 3$$

Time Interval = 5 min Assumed Vel = 3.0 ft/sec

Actual Vel. = 3.8 ft/sec $A = \frac{16.2}{240} \times 4350 = 267$

$V = \frac{1016}{267} = 3.8$ ft/sec

	NSTPS			
RS	2	—	-1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.06	.035	.035	2640	.0072

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1410	1900	2110	2150	2168	2169	2170
RY	1188	1186	1184	1182	1182	1183	1183	1183

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP 164 TO CP 177

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{12.2}{5280} \times 43560 = 84.3\ ft^2$

$V = \frac{134}{84.3} = 1.6$ ft/sec

∴ NSTPS = 6

Actual vel. = 1.6 ft/sec

∴ NSTPS = 11.1

	NSTPS			
RS	~~6~~ 11	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.07	5280	.0032

$= \frac{1166 - 1149}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1040	1290	1540	1810
RY	1159	1159	1159	1158	1158	1160	1162	1164

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-11-90

ROUTING PARAMETERS

CP164 TO CP165

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{48.2}{4900} \times 43560 = 429 ft^2$

$V = \frac{978}{429} = 2.28 ft/sec$

∴ NSTPS = 5

Actual vel = 2.28 ft/sec

∴ NSTPS = 7.2

	NSTPS			
	~~5~~ 7	–	–1	0
RS		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.075	4900	.0043

$= \frac{1166 - 1145}{4900}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1250	1730	2220	2320	2338	2339	2340
RY	1164	1162	1160	1158	1158	1159	1159	1159

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP165 TO CP179

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{23.9}{5280} \times 43560 = 692 \text{ ft}^2$

$V = \frac{1822}{692} = 2.6$ ft/sec

∴ NSTPS = 6

Actual vel = 2.6 ft/sec

∴ NSTPS = 6.8

NSTPS	7	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.022	.022	.04	5280	.0038

$= \frac{1145 - 1125}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1075	1090	1250	2000
RY	1135	1135	1135	1134	1134	1135	1133	1137

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 11 - 90

ROUTING PARAMETERS

CP166 TO CP180

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{7.6}{5280} \times 43560 = 63 ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{102}{63} = 1.63 ft/sec$

∴ NSTPS = 6

Actual vel = 1.63 ft/sec

∴ NSTPS = 10-8

	NSTPS			
RS	~~6~~ 11	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	5280	.0051

$= \frac{1139 - 1112}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1060	1420	2010	2320
RY	1125	1125	1125	1124	1124	1126	1128	1130

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP166 TO CP167

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{39.8}{5280} \times 43560 = 329\ ft^2$

$V = \frac{1100}{329} = 3.35\ ft/sec$

∴ NSTPS = 9

Actual vel = 3.35 ft/sec

∴ NSTPS = 5.3

	NSTPS			
	5	–	-1	0
RS	~~9~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.08	.025	.025	5280	.0028

$= \frac{1139 - 1224}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1510	2000	2250	2290	2318	2319	2320
RY	1136	1134	1132	1130	1130	1131	1131	1131

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP167 TO CP181A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{20.25}{2400} \times 43560 = 368\ ft^2$

$V = \frac{814}{368} = 2.21\ ft/sec$

∴ NSTPS = 2

Actual vel = 2.21 ft/sec

∴ NSTPS = 3.6

	NSTPS	–	-1	0
RS	~~2~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.08	2400	.0046

$= \frac{1124 - 113}{2400}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1080	1740	2169	2170
RY	1119	1119	1119	1118	1118	1120	1119	1119

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP167 TO CP168

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{3.9}{2600} \times 43560 = 65\ ft^2$

$V = \frac{54}{65} = .83\ ft/sec$

∴ NSTPS = 2

Actual vel = .83 ft/sec

∴ NSTPS = 10.4

	NSTPS			
RS	~~2~~ 10	–	–1	0
		–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2600	.0035

$= \frac{1124 - 1115}{2600}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1060	1460	2050	2315	2328	2329	2330
RY	1125	1124	1122	1120	1120	1121	1121	1121

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP167 TO CP183

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{30.2}{2250} \times 435560 = 585 ft^2$

$V = \frac{285}{585} = .49$ ft/sec

∴ NSTPS = 2

Actual vel = .49 ft/sec

∴ NSTPS = 18.8

	NSTPS			
RS	~~2~~ 19	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	2250	.0071

$= \frac{1124 - 1108}{2250}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1210	2310	2558	2559	2560
RY	1115	1115	1115	1114	1114	1115	1115	1115

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP168 TO CP183

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec $\qquad A = \frac{11.9}{2400} \times 43560 = 215\ ft^2$

$\therefore$ NSTPS = 4 $\qquad V = \frac{335}{215} = 1.55\ ft/sec$

Actual vel = 1.55 ft/sec
$\therefore$ NSTPS = 5.1

	NSTPS			
RS	~~4~~ 5	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.04	.04	.075	2400	.0029

$$= \frac{1115 - 1108}{2400}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1030	1480	2259	2260
RY	1113	1113	1113	1112	1112	1114	1116	1116

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP169 TO CP184

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{57.8}{5280} \times 42560 = 312 ft^2$

Assume V_{avg} = 3.40 ft/sec

$V = \frac{524}{312} = 1.68$ ft/sec

∴ NSTPS = 4

Actual vel = 1.68 ft/sec

= NSTPS = 0.5

	NSTPS			
RS	~~4~~ 0	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	5280	.0032

$= \frac{1109 - 1092}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1100	1670	2099	2100
RY	1111	1111	1111	1110	1110	1112	1113	1113

The WLB Group Inc.

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP168 TO CP169

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec $\qquad A = \frac{66}{2640} \times 43560 = 108\ ft^2$

$\therefore$ NSTPS = 4 $\qquad V = \frac{108}{108} = 1.0\ ft/sec$

Actual vel = 1.0 ft/sec

$\therefore$ NSTPS = 8.8

	NSTPS			
	9	—	-1	0
RS	~~4~~	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.035	.035	2640	.0023

$= \frac{1115 - 1109}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1440	1890	2100	2148	2149	2150
RY	1116	1116	1114	1112	1112	1113	1113	1113

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP170 TO CP185

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec $\qquad A = \frac{235}{5280} \times 43560 = 218\ ft^2$

$\therefore$ NSTPS = 4 $\qquad V = \frac{235}{218} = 1.08\ ft/sec$

Actual vel = 1.08 ft/sec

$\therefore$ NSTPS = 16.4

	NSTPS			
	16	–	–1	0
RS	4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	5280	.0032

$$= \frac{1109 - 1092}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	2100	2280	2338	2339	2340
RY	1101	1101	1101	1100	1100	1101	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP171 TO CP173A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec $\quad A = \frac{1519}{2100} \times 43560 = 331\ ft^2$

$\therefore$ NSTPS = 2 $\quad V = \frac{783}{331} = 2.37$ ft/sec

Actual vel = 2.37 ft/sec

$\therefore$ NSTPS = 3

	NSTPS			
RS	~~2~~ 3	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.075	.04	.04	2100	.0076

$= \frac{1106 - 1090}{2100}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1170	1940	2005	2048	2049	2050
RY	1105	1105	1104	1102	1102	1103	1103	1103

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP 172 TO CP 173

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{17.7}{4500} \times 43560 = 171 ft^2$

$V = \frac{734}{171} = 4.29$ ft/sec

∴ NSTPS = 5

Actual vel = 4.29 ft/sec

∴ NSTPS = 3.5

	NSTPS			
RS	~~5~~ 4	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.03	.075	4500	.00042

$= \frac{1111 - 1092}{4500}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1360	1380	1430	1470	1639	1640
RY	1111	1110	1108	1106	1106	1108	1110	1110

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP173 TO CP173A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{2.82}{1650} \times 43560 = 75 ft^2$

$V = \frac{754}{75} = 10.1 ft/sec$

∴ NSTPS = 2

Actual vel = 10.1 ft/sec

∴ NSTPS = 1

	NSTPS			
	1	—	-1	0
RS	~~2~~	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.020	.022	1650	.0050

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1015	1032	1040	1050	1058	1075	1090
RY	1098	1097	1096	1092	1092	1096	1097	1098

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP173 TO RCP173A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{1650}{6 \times 300} = 1$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. =

	NSTPS			
RS	1	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	1650	.0050

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1101	1101	1101	1091	1091	1101	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP1BA TO RCP187

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{5600}{6 \times 300} = 3.11$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. =

	NSTPS			
RS	3	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	5600	.0050

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1092	1092	1092	1092	1092	1092	1092	1092

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP174 TO CP176

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{315}{7020} \times 43560 = 195 ft^2$

$V = \frac{625}{195} = 3.2$ ft/sec

∴ NSTPS = 6

Actual vel = 3.2 ft/sec

∴ NSTPS = 7.3

	NSTPS			
RS	~~6~~ 7	–	–1	0

	N left	N chan	N right	length	Slope
RC	.025	.025	.025	7020	.0073

$= \frac{1238 - 1187}{7020}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1100	1200	1600	1620	1630	1750
RY	1223	1222	1220	1218	1218	1220	1222	1224

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP175 TO CP176

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

U = 0
Q = 0
A = 0

∴ NSTPS = 5

Actual vel = 0
∴ OK

	NSTPS	–	-1	0
RS	5	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.025	.022	.022	6500	.0074

$$= \frac{1285 - 1187}{6500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1100	1300	1420	1470	1558	1559	1560
RY	1226	1224	1222	1220	1220	1222	1222	1222

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP175 TO CP175A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{50}{1560} \times 43560 = 140\ ft^2$

$V = \frac{359}{140} = 2.6$ ft/sec

∴ NSTPS = 3

Actual vel. = 2.6 ft/sec

∴ NSTPS = 20

	NSTPS			
RS	~~3~~ 2	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	1560	.0013

$= \frac{1235 - 1233}{1560}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1055	1150	1190	1390
RY	1136	1136	1136	1134	1134	1136	1138	1140

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP175A TO CP189

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

∴ NSTPS = 11

Actual vel =

Check after run

	NSTPS		-1	0
RS	11		-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	3300	.0009

$$= \frac{1233-1230}{3300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1035	1170	1460	1720
RY	1233	1233	1233	1232	1232	1234	1236	1238

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-12-90

ROUTING PARAMETERS

CP176 TO CP191

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{28.8}{5540} \times 43560 = 226\ ft^2$

$V = \frac{814}{226} = 3.6$ ft/sec

∴ NSTPS = 5

Actual vel = 3.6 ft/sec

∴ NSTPS = 5.1 ≈ OK

	NSTPS			
		–	–1	0
RS	5	–	–1	0

	N left	N chan	N right	length	Slope
RC	.035	.035	.075	5540	.0067

$= \frac{1187 - 1150}{5540}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1100	1409	1720	2050
RY	1163	1163	1163	1162	1162	1164	1166	1168

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP176A TO CP 177A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{12}{2640} \times 43560 = 200\ ft^2$

Assumt V_{avg} = 4.0 ft/sec

$V = \frac{48}{200} = 2.1\ ft/sec$

∴ NSTPS = 2

Actual vel = 21 ft/sec

∴ NSTPS = 4

	NSTPS			
	4	–	–1	0
RS	2	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.014	.014	2640	.00664

$= \frac{1183 - 1166}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1545	2020	2145	2168	2169	2170
RY	1173	1172	1170	1168	1168	1169	1169	1169

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP176A TO CP191

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Q=0
V=0
A=0

∴ NSTPS = 4

Actual vel = 0
∴ OK

	NSTPS	—	-1	0
RS	4	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.05	5280	.0062

$$= \frac{1183 - 1150}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1100	1400	1720	2050
RY	1163	1163	1163	1162	1162	1164	1166	1168

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-31-90

ROUTING PARAMETERS

CP177A TO CP177

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTAS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2640}{2.1 \times 300} = 3$$

Time Interval = 5 min Assumed Vel = 3.0 ft/sec

Actual Vel. = 2.1 ft/sec V = 2.1 ft/sec

	NSTPS			
RS	4	—	—1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.075	.04	.04	2640	.0064

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1545	2020	2145	2168	2169	2170
RY								

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP177 TO CP178

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{14.6}{2250} \times 43560 = 282\ ft^2$

$V = \frac{713}{282} = 2.53\ ft/sec$

∴ NSTPS = 2

Actual vel = 2.53 ft/sec

∴ NSTPS = 2.9

	NSTPS			
RS	~~2~~ 3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.04	.04	2250	.0067

$$? = \frac{1149 - 1134}{2250}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1170	1950	2020	2060	2078	2079	2080
RY	1149	1148	1146	1144	1144	1145	1145	1145

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP178 TO CP179

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{26.9}{2640} \times 43560 = 444 ft^2$

$V = \frac{836}{444} = 1.88 ft/sec$

∴ NSTPS = 3

Actual vel = 1.88 ft/sec

∴ NSTPS = 4.7

	NSTPS			
	5	—	-1	0
RS	3	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.014	.014	2640	.0034

$? = \frac{1134 - 1125}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1560	2110	2320	2348	2349	2350
RY	1137	1136	1134	1132	1132	1133	1133	1133

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP179 TO CP180

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 15 min = 300 sec

Assume V_{av} = 2 ft/sec

$A = \frac{31.7}{5280} \times 43560 = 262\ ft^2$

$V = \frac{1119}{262} = 4.28$ ft/sec

∴ NSTPS = 9

Actual vel = 4.28 ft/sec

∴ NSTPS ≈ 4

NSTPS	4	–	–1	0
RS	~~9~~	–	–1	0

	N left	N chan	N right	length	Slope
RC	.07	.022	.022	5280	.0025

$= \frac{1125 - 1112}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1320	1760	1820	1840	1868	1869	1870
RY	1124	1122	1120	1118	1118	1119	1119	1119

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP179 TO CP193

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{46.6}{5280} \times 43560 = 385 ft^2$

$V = \frac{979}{385} = 2.54$ ft/sec

NSTPS = 6

Actual vel = 2.54 ft/sec

∴ NSTPS = 6.9

NSTPS	7	–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.022	.022	.06	5280	.0040

$S = \frac{1125 - 1104}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1050	1070	1150	1970
RY	1113	1113	1113	1112	1112	1113	1112	1118

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP179 TO CP194

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{avg} = 3.0 ft/sec

$\therefore$ NSTPS = 8

Actual vel = 0

$\therefore$ OK

Q = 0
V = 0
A = 0

	NSTPS	–	–1	0
RS	8	–	–1	0

	N left	N chan	N right	length	Slope
RC	.075	.075	.075	7500	.0039

$$= \frac{1125 - 1096}{7500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1360	2780	2998	2999	3000
RY	1109	1109	1109	1108	1108	1109	1109	1109

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP180 TO CP195

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$\therefore$ NSTPS = 8

$$A = \frac{253.3}{7050} \times 43560 = 1565 \text{ ft}^2$$

$$V = \frac{913}{1565} = .58 \text{ ft/sec}$$

Actual vel = .58 ft/sec

$\therefore$ NSTPS = 40.2

	NSTPS			
RS	~~8~~ 40	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	7050	.0031

$$= \frac{1112 - 1090}{7050}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1350	2300	2448	2449	2450
RY	1101	1101	1101	1099	1099	1101	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP180 TO CP181

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

$A = \frac{80}{1350} \times 43560 = 259 ft^2$

$V = \frac{170}{259} = .66$ ft/sec

∴ NSTPS = 5

Actual vel = .66 ft/sec

∴ NSTPS = 6.8

	NSTPS			
	7	—	-1	0
RS	5	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	1350	.0007

$= \frac{1112 - 1111}{1350}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1110	2240	2270	2298	2299	2300
RY	1116	1116	1114	1112	1112	1113	1113	1113

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP181 TO CP182

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{55}{2900} \times 4560 = 8.3$

$V = \frac{11.5}{8.3} = 1.4$ ft/sec

∴ NSTPS = 5

Actual vel = 1.4 ft/sec

∴ NSTPS = 6.9

	NSTPS			
RS	~~5~~ 7	–	–1	0
			–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2900	.0024

$= \frac{1111 - 1104}{2900}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1190	1640	2305	2340	2358	2359	2360
RY	1111	1110	1108	1106	1106	1107	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 15 - 90

ROUTING PARAMETERS

CP181 TO CP195

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{11.5}{6400} \times 43560 = 78\ ft^2$

$V = \frac{413}{78} = 5.3$ ft/sec

∴ NSTPS = 7

Actual vel = 1.22 ft/sec

∴ NSTPS = 4

NSTPS	4	–	–1	0
RS	7	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.022	.022	.07	6400	.0033

$= \frac{1111 - 1090}{6400}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1055	1080	1099	1900
RY	1103	1103	1103	1098	1098	1102	1103	1103

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP181A TO CP182

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{24}{2870} \times 43560 = 364 ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{674}{364} = 1.85 ft/sec$

∴ NSTPS = 3

Actual vel = 1.85 ft/sec
∴ NSTPS = 5.2

	NSTPS			
RS	~~3~~ 5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.08	2870	.0031

$= \frac{1113 - 1104}{2870}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1075	1970	1880	2100
RY	1109	1109	1109	1108	1108	1110	1112	1113

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP181A TO CP183

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{3.3}{1250} \times 43560 = 114 ft^2$

Assume V_{av} = 3.0 ft/sec

$V = \frac{169}{114} = 1.48$ ft/sec

∴ NSTPS = 1

Actual vel = 1.48 ft/sec

∴ NSTPS = 2.8

	NSTPS			
RS	~~1~~ 3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	1250	.0040

$= \frac{1113 - 1108}{1250}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1420	1850	1870	1888	1889	1890
RY	1114	1114	1112	1110	1110	1111	1111	1111

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 15 - 90

ROUTING PARAMETERS

CP182 TO CP196

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$\therefore$ NSTPS = 6

$A = \frac{79.8}{5280} \times 43560 = 246 ft^2$

$V = \frac{339}{246} = 1.38 ft/sec$

Actual vel = 1.38 ft/sec

$\therefore$ NSTPS = 12.8

NSTPS	13	–	–1	0
RS	~~6~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.025	.04	5280	.0034

$= \frac{1104 - 1086}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1080	1060	1115	1220	1750
RY	1097	1097	1097	1096	1096	1096.5	1095.5	1097

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP182 TO CP184

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{31.6}{5280} \times 43560 = 261\ ft^2$

$V = \frac{335}{261} = 1.28$ ft/sec

∴ NSTPS = 9

Actual vel = 1.28 ft/sec

∴ NSTPS = 13.7

	NSTPS			
RS	~~9~~ 14	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.04	.04	5280	.0023

$$= \frac{1104 - 1092}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1700	2340	2450	2463	2464	2465
RY	1104	1104	1102	1100	1100	1101	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP183 TO CP184

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{avg} = 3.0 ft/sec

$\therefore$ NSTPS = 5

$A = \frac{129.9}{4520} \times 43560 = 1252$

$V = \frac{662}{1252} = .53$ ft/sec

Actual vel = .53 ft/sec

$\therefore$ NSTPS = 28.5

	NSTPS			
	~~5~~ 28	–	–1	0
RS		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.08	.08	4520	.0035

$= \frac{1108-1092}{4520}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1215	1910	2630	3250	3499	3500
RY	1101	1101	1100	1098	1098	1100	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 15 - 90

ROUTING PARAMETERS

CP184 TO CP185

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

$A = \frac{92}{1400} \times 43560 = 285\ ft^2$

$\therefore$ NSTPS = 5

$V = \frac{175}{285} = .61\ ft/sec$

Actual vel = .61 ft/sec

$\therefore$ NSTPS = 7.6

	NSTPS			
RS	~~5~~ 8	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.04	.04	1400	.0007

$= \frac{1092 - 1091}{1400}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1170	1970	2260	2308	2309	2310
RY	1095	1095	1094	1092	1092	1093	1093	1093

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP184 TO CP198

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2 ft/sec

$A = \frac{127.4}{6630} \times 43560 = 5.57\ ft^2$

$\therefore$ NSTPS = 11

$V = \frac{336}{837} = .40\ ft/sec$

Actual vel = .40 ft/sec

$\therefore$ NSTPS = 55

	NSTPS			
	55	—	-1	0
RS	~~11~~	—	-1	0

	N left	N chan	N right	length	slope
RC	.075	.075	.075	6630	.0020

$= \frac{1092 - 1079}{6630}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1025	1220	1990	2010	2099	2100
RY	1085	1085	1084	1083	1083	1084	1085	1085

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 12 - 90

ROUTING PARAMETERS

CP184 TO CP197

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{427}{5280} \times 43560 = 352\ ft^2$

$V = \frac{347}{352} = 1.0$ ft/sec

∴ NSTPS = 9

Actual vel = 1.0 ft/sec

∴ NSTPS = 17.8

	NSTPS			
	~~18~~	–	–1	0
RS	~~9~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.08	5280	.0025

$= \frac{1082 - 1079}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1870	2300	2699	2700
RY	1087	1087	1087	1086	1086	1088	1089	1089

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP185 TO CP198

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

∴ NSTPS = 9

Actual vel =

Check after final Run

	NSTPS	–	–1	0
RS	9	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	5450	.0022

$$= \frac{1091 - 1079}{5450}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1090	1410	1950	2190	2219	2220
RY	1086	1086	1084	1083	1083	1284	1285	1285

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP186 TO CP187

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{12.3}{1950} \times 43560 = 274\ ft^2$

Assume V_{av} = 3 ft/sec

$V = \frac{380}{274} = 1.39$ ft/sec

∴ NSTPS = 2

Actual vel = 1.39 ft/sec

∴ NSTPS = 4.7

NSTPS	–	-1	0	
RS	~~2~~ 5	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.08	.04	.04	1950	.0036

$= \frac{1097 - 1090}{1950}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1200	1320	1690	1828	1829	1830
RY	1097	1097	1096	1094.5	1094.5	1095	1095	1095

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP 187 TO RCP 200

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{5460}{6 \times 300} = 3.03$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. =

	NSTPS			
RS	3	—	—1	0

	N LEFT	NCHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	5460	.0050

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1080	1080	1080	1070	1070	1080	1080	1080

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-15-90

ROUTING PARAMETERS

CP188 TO CP207A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

∴ NSTPS = 5

Actual vel = 5.4

NSTPS	—	-1	0
RS	~~5~~ 3	—	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.022	.025	5460	.0079

$$= \frac{1225 - 1182}{5460}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1100	1200	1210	1230	1335	1355	1510
RY	1218	1214	1212	1210	1210	1212	1214	1218

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP189 TO CP190

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{48.6}{6900} \times 45560 = 306\ ft^2$

$V = \frac{922}{306} = 3.0\ ft/sec$

∴ NSTPS = 8

Actual vel = 3.0 ft/sec
∴ OK

	NSTPS	–	-1	0
RS	8	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.15	.035	.035	6900	.0057

$= \frac{1230-1191}{6900}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1270	1700	2040	2090	2118	2119	2120
RY	1212	1210	1208	1206	1206	1207	1207	1207

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP190 TO CP191

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

$A = \frac{342}{5280} \times 43560 = 282\ ft^2$

$U = \frac{1080}{282} = 3.86\ ft/sec$

∴ NSTPS = 4

Actual vel = 3.86 ft/sec

∴ NSTPS = 4.6

NSTPS	5	–	-1	0
RS	4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	5280	.0076

$= \frac{1190 - 1150}{5280}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1090	1260	2080	2310	2330	2358	2359	2360
RY	1182	1180	1178	1176	1176	1177	1177	1177

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. ADUAD Date 10-16-90

ROUTING PARAMETERS

CP191 TO CP192A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{12.8}{2640} \times 4356 = 212\ ft^2$

$V = \frac{406}{212} = 1.92\ ft/sec$

∴ NSTPS = 6.2

Actual vel = 1.92 ft/sec

∴ NSTPS = 4.6

	NSTPS	–	–1	0
RS	~~4~~ 3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.04	.04	2640	.0045

$= \frac{1150 - 1138}{2640}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1350	1800	2200	2225	2278	2279	2280
RY	1148	1146	1144	1142	1142	1143	1143	1143

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 16 - 90

ROUTING PARAMETERS

CP191 TO CP208

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

∴ NSTPS = 6

Actual vel = 3.9

	NSTPS	–	-1	0
RS	~~6~~ 5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.050	5280	.0040

$$= \frac{1150 - 1129}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1045	1110	1130	1160	1890
RY	1144	1143	1143	1142	1142	1143	1141.5	1150

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-31-90

ROUTING PARAMETERS

CP192A TO CP192

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}}$$

Time Interval = 5 min Assumed Vel = 3.0 ft/sec

Actual Vel. = 1.92 ft/sec

	NSTPS			
RS	5	—	-1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.08	.04	.04	2640	.0045

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1350	1800	2200	2225	2278	2279	2280
RY	1148	1146	1144	1142	1142	1143	1143	1143

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP192 TO CP193

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{24}{4950} \times 43560 = 21 ft^2$

$V = \frac{69}{21} = 3.3 ft/sec$

∴ NSTPS = 6

Actual vel = 3.3 ft/sec

∴ NSTPS = 5.0

	NSTPS			
	~~6~~ 5	–	–1	0
RS	~~6~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.08	.025	.082	4950	.0044

$= \frac{1126 - 1104}{4950}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1380	1800	2160	2195	2230	2275	2310
RY	1124	1122	1120	1118	1118	1119	1116	1119

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP192 TO CP209

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

∴ NSTPS = 6

Actual vel = 3.3

	NSTPS	–	-1	0
RS	~~6~~ 5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.15	5280	.00045

$$= \frac{1126 - 1102}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1200	1470	1840	2300
RY	1112	1111	1111	1110	1110	1112	1114	1116

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP192 TO CP210

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

∴ NSTPS = 7

Actual vel =

	NSTPS			
		–	–1	0
RS	7	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.15	.15	.15	5900	.0054

$$= \frac{1126 - 1094}{5900}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1050	2400	2548	2549	2550
RY	1113.5	1113	1113	1112	1112	1113	1113	1113.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 10-16-90

ROUTING PARAMETERS

CP193 TO CP194

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec $\qquad A = \frac{53.9}{5280} \times 43560 = 445\ ft^2$

$\therefore$ NSTPS = 9 $\qquad V = \frac{1065}{445} = 2.4\ ft/sec$

Actual vel = 2.4 ft/sec

$\therefore$ NSTPS = 7-3

	NSTPS			
	7	–	-1	0
RS	~~9~~	–	-1	0

	Nleft	Nchan	Nright	length	Slope
RC	.05	.020	.022	5280	.0015

$$= \frac{1104 - 1096}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1940	1995	2020	2040	2050	2069	2070
RY	1104	1100	1101	1098	1098	1100	1101	1101

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 16 - 90

ROUTING PARAMETERS

CP193 TO CP211

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

∴ NSTPS = 6

Actual vel = 3.6

NSTPS	–	–1	0
RS	~~6~~ 5	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.06	5280	.0038

$$= \frac{1104 - 1084}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1035	1070	1085	1140	2450
RY	1096	1095	1095	1094	1094	1095	1094	1100

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP194 TO CP195

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{15.6}{3750} \times 43560 = 181 ft^2$

$V = \frac{1061}{181} = 5.85$ ft/sec

∴ NSTPS = 6

Actual vel = 5.85 ft/sec

∴ NSTPS = 21

	NSTPS			
	~~6~~ 2	–	–1	0
RS	~~6~~	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.050	.020	.022	3750	.0018

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1770	1867	1895	1905	1913	1959	1960
RY	1096	1093	1095	1088	1088	1090	1093	1093

10' 4'

.00180

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP195 TO CP196

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{79}{2800} \times 43560 = 123 \text{ ft}^2$

$V = \frac{1702}{123} = 13.9$ ft/sec

∴ NSTPS = 3

Actual vel = 13.9 ft/sec

∴ NSTPS = 1.0

	NSTPS				
RS	~~3~~ 1	–	–1	0	

	N left	N chan	N right	Length	Slope
RC	.018	.018	.025	2800	.0054

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1008	1020	1030	1042	1115	1220
RY	1085	1085	1080	1074	1074	1080	1082	1083

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 7/29/91

ROUTING PARAMETERS

CP195 TO CP 201

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{avg} = 4 ft/sec

Actual vel = 4.0

	NSTPS			
		–	–1	0
RS	1	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.035	1600	.0019

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	0	100	200	800	1000	1700	2000	2400
RY	1089	1088.5	1088	1086.5	1086.5	1088	1089	1090

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP 196 TO CP 202

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{242}{5460} \times 43560 = 193\ ft^2$

$V = \frac{1709}{193} = 8.85\ ft/sec$

∴ NSTPS = 9

Actual vel = 8.85 ft/sec

∴ NSTPS = 2.1

NSTPS	2	–	–1	0
RS	~~9~~	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.020	.019	.020	5460	.0018

approximated

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1008	1020	1030	1042	1074	1075
RY	1078	1078	1076	1070	1070	1076	1078	1078

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP197 TO CP203

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

$A = \frac{37.9}{2650} \times 43560 = 623 ft^2$

Assume V_{av} = 1.0 ft/sec

$V = \frac{685}{623} = 1.1 ft/sec$

∴ NSTPS = 9

Actual vel = 1.1 ft/sec

∴ NSTPS = 8.0

NSTPS	8	–	-1	0
RS	~~9~~	–	-1	0

	Nleft	Nchan	Nright	length	Slope
RC	.035	.035	.015	2650	.0004

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1200	1350	1809	1810
RY	1078	1078	1078	1077.5	1077.5	1078	1080	1080

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-16-90

ROUTING PARAMETERS

CP198 TO CP204

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

$A = \frac{17.4}{3120} \times 43560 = 243\ ft^2$

$V = \frac{1088}{243} = 4.48\ ft/sec$

∴ NSTPS = 3

Actual vel = 4.48 ft/sec

∴ NSTPS = 2.3

	NSTPS			
RS	~~3~~ 2	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.025	.03	3120	.0029

$$= \frac{1079 - 1070}{3120}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1050	1070	1090	1190	1220	1250	1270
RY	1083	1082	1078	1076	1076	1078	1080	1083

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-17-90

ROUTING PARAMETERS

CP199 TO CP200

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 6.0 ft/sec

$A = \frac{70}{2180} \times 43560 = 141\ ft^2$

$V = \frac{112}{141} = .80\ ft/sec$

∴ NSTPS = 1

Actual vel = .80 ft/sec

∴ NSTPS = 9.1

NSTPS	—	-1	0	
RS	~~1~~ 9	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.08	.08	.08	2180	.0138

$= \frac{1090 - 1060}{2180}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1150	1700	1949	1948	1950
RY	1077	1077	1077	1076	1076	1077	1077	1077

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP 300 TO RCP 206

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2960}{6 \times 300} = 1.6$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. =

	NSTPS			
RS	2	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.0395	2960	.0050

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1070	1070	1070	1060	1060	1070	1070	1070

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/21/91

ROUTING PARAMETERS

CP201 TO CP223 section is the same as 226 → 223

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.5

NSTPS	–	-1	0
RS	~~14~~ 19	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.05	.035	.05	7000	.0014

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1300	1500	1600	1800	1900	2000
RY	1075	1074.5	1074	1073	1073	1074	1074.5	1075

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 17 - 90

ROUTING PARAMETERS

CP202 TO CP204 (Analogous to CP201 TO CP202)

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{23.5}{5500} \times 43560 = 186 ft^2$

$V = \frac{1694}{186} = 9.1$ ft/sec

∴ NSTPS = 9

Actual vel = 9.1 ft/sec

∴ NSTPS = 20

	NSTPS			
	2	–	-1	0
RS	~~9~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.020	.022	4200	.0018

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1008	1020	1030	1042	1074	1075
RY	1083	1083	1079	1073	1073	1079	1083	1083

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/21 /91

ROUTING PARAMETERS

CP202 TO CP226

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel =

	NSTPS	–	–1	0
RS	19	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.05	5620	.0014

$$= \frac{1083 - 1075}{5620}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1600	2090	2098	2099	2100
RY	1080	1080	1080	1078	1078	1080	1080	1080

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10-17-90

ROUTING PARAMETERS

CP204 TO CP205 (Analogous to CP201 TO CP202)

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

$A = \frac{4.9}{1050} \times 43560 = 203 \text{ ft}^2$

$V = \frac{1935}{203} = 95 \text{ ft/sec}$

∴ NSTPS = 2

Actual vel = 9.5 ft/sec

∴ NSTPS = .4

	NSTPS			
RS	~~2~~ 1	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.020	.022	1050	.0018

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1008	1020	1030	1042	1074	1075
RY	1080	1080	1073	1067	1067	1073	1078	1078

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 10 - 17 - 90

ROUTING PARAMETERS

CP205 TO CP206 (Analogous to CP201 TO CP202)

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

∴ NSTPS = 2

Actual vel = 9.5 ft/sec

∴ NSTPS = 1

	NSTPS	–	-1	0
RS	~~2~~ 1	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.022	.020	.022	1100	.0018

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1008	1020	1030	1042	1074	1075
RY	1080	1080	1072	1066	1066	1072	1080	1080

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-27-91

ROUTING PARAMETERS

RIVER ROUTE

RCP 206 TO RCP 228A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2500}{6 \times 300} = 1.4$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. =

	NSTPS			
RS	1	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	2500	.0036

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1070	1070	1070	1060	1060	1070	1070	107

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-13-90

ROUTING PARAMETERS

CP207 TO CP208

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.3

	NSTPS	—	-1	0
RS	~~68~~	—	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	5280	.00059

$$= \frac{1160-1129}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1350	2000	2020	2038	2039	2040
RY	1056	1056	1054	1052	1052	1053	1053	1053

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP 207 TO CP 217

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.2

NSTPS	–	-1	0
RS	~~6~~ 8	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0057

$$= \frac{1160 - 1130}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1060	1490	1740	2250
RY	1151	1151	1151	1150	1150	1152	1154	1156

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-13-90

ROUTING PARAMETERS

CP207A TO CP214

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = 5.4

	NSTPS	–	-1	0
RS	~~32~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	3200	.0069

$$= \frac{1182 - 1160}{3200}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1060	1020	1030	1045	1065	1085	1325	1490
RY	1179	1176	1172	1170	1170	1172	1174	1176

Form 200

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 1/24/91

ROUTING PARAMETERS

CP 208 TO CP 218

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.4

	NSTPS	–	–1	0
RS	~~6~~ 13	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.025	.035	5280	.0047

$$= \frac{1130 - 1105}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1040	1055	1100	2010
RY	1123	1123	1123	1122	1122	1125	1124	1130

Form 209

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP208 TO CP209A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.8

	NSTPS	–	–1	0
RS	~~3~~ 2	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.75	.03	.03	2640	.0045

$$= \frac{1129 - 1117}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1490	1890	1950	1970	1998	1999	2000
RY	1130	1128	1126	1124	1124	1125	1125	1127

Form 200

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP208 TO CP219

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .92

NSTPS	–	-1	0
RS	~~722~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	6070	.0059

$$= \frac{1129 - 1093}{6070}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1270	2570	2698	2699	2700
RY	1115	1115	1115	1114	1114	1115	1115	1115

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP209 TO CP220

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.4

	NSTPS	–	-1	0
RS	~~6~~ 7	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0040

$$= \frac{1102 - 1081}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1180	1560	1820	2050
RY	1091	1091	1091	1090	1090	1092	1094	1095

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP209 TO CP221

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .91

	NSTPS			
		–	–1	0
RS	~~3~~22	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	5910	.0044

$$= \frac{1102 - 1076}{5910}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1120	2150	2278	2279	2280
RY	1091	1091	1091	1090	1090	1091	1091	1091

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP209 TO CP210

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.5

NSTPS	–	-1	0
RS	~~5~~6	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2560	.0030

$$= \frac{1102 - 1094}{2560}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1630	2120	2250	2268	2269	2270
RY	1102	1102	1100	1098	1098	1099	1099	1099

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP209A TO CP219

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.6

	NSTPS	–	–1	0
RS	~~67~~ 7	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0045

$$= \frac{1117 - 1093}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1200	1500	1880	2100
RY	1114	1113	1113	1112	1112	1114	1116	1117

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12 - 14 - 90

ROUTING PARAMETERS

CP209A TO CP220

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.75

	NSTPS	–	-1	0
RS	~~7~~ 12	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	6230	.0058

$$= \frac{1117 - 1081}{6230}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1090	1280	1298	1299	1300
RY	1108	1107	1107	1106	1106	1107	1107	1107

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP209A TO CP209

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.24

NSTPS	–	-1	0
RS	37	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	2640	.0057

$$= \frac{1117 - 1102}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1240	1700	1980	1990	3028	3029	3030
RY	1117	1116	1114	1112	1112	1113	1113	1113

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP210 TO CP221

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.3

	NSTPS	–	-1	0
RS	~~3~~ 14	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5450	.0033

$= \frac{1094 \quad 1076}{5450}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1280	1880	2469	2470
RY	1083	1083	1083	1082	1082	1084	1086	1088

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-14-90

ROUTING PARAMETERS

CP211 TO CP221A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = 1.9

NSTPS	–	-1	0
RS	~~18~~ 9	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5400	.0009

$$= \frac{1083 - 1078}{5400}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1100	1620	2119	2120
RY	1084	1081	1081	1080	1080	1082	1084	1084

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/30/91

ROUTING PARAMETERS

CP212 TO CP221A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = ft/sec

Actual vel = 1.45

	NSTPS	–	–1	0
RS	~~12~~ 11	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.025	.022	.025	5000	.0002

$$= \frac{1}{5000}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1070	1090	1220	1287	1289	1290
RY	1077	1077	1076	1074	1074	1079	1079	1079

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP213 TO CP212

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = 1.0

	NSTPS	–	-1	0
RS	8	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.025	.022	.025	4060	.0002

$= \frac{.5}{2500}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1140	1220	1290	1478	1479	1480
RY	1077.7	1077.7	1076	1074	1074	1076	1077.7	1077.7

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-13-90

ROUTING PARAMETERS

CP214 TO CP215

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 5.4

	NSTPS	–	-1	0
RS	~~3~~ 1	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	2250	.0049

$$= \frac{1160 - 1149}{2250}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1030	1045	1070	1150	1190	1310
RY	1061	1060	1058	1056	1056	1058	1060	1062

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 2-18-90

ROUTING PARAMETERS

CP215 TO CP233

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 5.2

	NSTPS	–	-1	0
RS	~~6~~ 3	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.025	5280	.0032

$$= \frac{1149 - 1132}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1020	1030	1050	1070	1190	1540
RY	1043	1042	1040	1038	1038	1040	1042	1044

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP215A TO CP 215

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.2

	NSTPS	–	-1	0
RS	3/2	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.02	.025	2800	.0046

$$= \frac{1162-1149}{2800}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1190	1425	1435	1455	1478	1479	1480
RY	1158	1156	1154	1152	1152	1159	1159	1159

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP216 TO CP234

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.0

	NSTPS	–	-1	0
RS	~~6~~4	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.02	.02	.04	5280	.0044

$$= \frac{1140 - 1117}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1015	1020	1035	1070	1080	1140	1400
RY	1031	1030	1028	1026	1026	1028	1030	1032

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP217 TO CP218

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.7

	NSTPS	–	-1	0
RS	~~6~~ 10	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	5280	.0047

$$= \frac{1130 - 1105}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1190	1650	1980	2030	2048	2049	2050
RY	1123	1122	1120	1118	1118	1119	1119	1119

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP217 TO CP235

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.4

NSTPS	–	-1	0
RS	67	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.03	.075	5280	.0036

$$= \frac{1130 - 1111}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1020	1035	1040	1050	1300	1640	1790
RY	1016	1014	1015	1014	1014	1016	1018	1019

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP218 TO CP236

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.3

	NSTPS	–	-1	0
RS	~~65~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.075	5280	.0040

$$= \frac{1105 - 1084}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1090	1100	1210	1720
RY	1097	1097	1097	1096	1096	1099	1098	1102

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP218 TO CP237

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.6

NSTPS	–	-1	0
RS	714	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	6700	.0046

$$= \frac{1105 - 1074}{6700}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1300	1820	2099	2100
RY	1087	1087	1087	1086	1086	1088	1089	1089

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-14-90

ROUTING PARAMETERS

CP218 TO CP219

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .71

NSTPS	–	-1	0
RS	312	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.04	.04	2640	.0045

$$= \frac{1105 - 1093}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1110	1290	1600	2050	2108	2109	2110
RY	1101	1100	1098	1096	1096	1097	1097	1097

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP219 TO CP237

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.25

	NSTPS	–	–1	0
RS	~~6~~ 14	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0036

$$= \frac{1093 - 1074.1}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1300	1820	2099	2100
RY	1087	1087	1087	1086	1086	1088	1089	1089

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP219 TO CP238

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.7

	NSTPS	–	-1	0
RS	78	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	6230	.0051

$$= \frac{1093 - 1061}{6230}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1150	1670	1869	1870
RY	1033	1033	1033	1032	1032	1034	1036	1036

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP219 TO CP220

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.9

	NSTPS	–	–1	0
RS	3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.020	.020	2640	.0045

$$= \frac{1093 - 1081}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1460	1670	1700	1730	1768	1769	1770
RY	1088	1085	1087	1080	1080	1087	1087	1087

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP220 TO CP238

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.2

NSTPS	–	-1	0
RS	~~615~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0038

$$= \frac{1081 - 1061}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1150	1670	1869	1870
RY	1033	1033	1033	1032	1032	1034	1036	1036

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP220 TO CP239

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .90

NSTPS	–	-1	0
RS	~~62~~ 21	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	5750	.0045

$$= \frac{1081 - 1055}{5750}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1320	2850	2998	2999	3000
RY	1071	1071	1071	1070	1070	1071	1071	1071

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP220 TO CP221

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.6

NSTPS	–	–1	0
RS 4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2200	.0023

$$= \frac{1081 - 1076}{2200}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1470	1870	2160	2178	2179	2180
RY	1082	1082	1080	1078	1078	1081	1081	1081

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP221 TO CP239

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .94

	NSTPS	–	-1	0
RS	~~6~~ 20	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	5750	.0037

$$= \frac{1076 - 1055}{5750}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1320	2850	2998	2999	2999
RY	1071	1071	1071	1070	1070	1071	1071	1071

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP221 ATO CP222

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.5

	NSTPS	–	-1	0
RS	~~9~~ 6	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.022	.025	7800	.0024

$$= \frac{1078 - 1059}{7800}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1070	1090	1220	1287	1289	1290
RY	1077	1077	1076	1074	1074	1079	1079	1079

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP222 TO CP241

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.3

	NSTPS	–	-1	0
RS	~~108~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.025	.03	5770	.0022

$$= \frac{1059 - 1046}{5770}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1100	1320	1540	2350	2470	2630	2710
RY	1057	1056	1054	1052	1052	1054	1056	1057

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP223 TO CP224

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.5

NSTPS	–	–1	0
RS	~~5~~ 4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.025	.03	2900	.0017

$$= \frac{1066 - 1061}{2900}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1120	1350	1590	1780	1960	2129	2130
RY	1067	1066	1064	1063	1063	1064	1065.5	1065.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP223 TO CP225

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{5680}{4 \times 300} = 4.7 \cdot 5$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.51

	NSTPS.			
RS	~~5~~ 13	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.07	.035	.07	5680	.0028 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	515	790	960	990	1010	1070	1225	1300
RY	74	70	69	68	68	72	74	76

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP224 TO CP241

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.5

	NSTPS	–	–1	0
RS	97	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.025	.03	5460	.0027

$$= \frac{1061 - 1046}{5460}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1100	1320	1540	2350	2470	2630	2710
RY	1057	1056	1054	1052	1052	1054	1056	1057

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP225 TO CP242

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{6480}{4 \times 300} = 5$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 20

	NSTPS			
RS	~~8~~ 11	—	-1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.06	.03	.06	6480	.0033 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	800	930	955	995	1005	1020	1360	1525
RY	1064	1060	1058	1057	1057	1058	1060	1064

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP226 TO CP223

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{7840}{4 \times 300} = 6.53$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.0

	NSTPS			
RS	X26	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.05	.05	.05	7840	.0011 4/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1300	1500	1600	1800	1900	2000
RY	1075	1074.5	1074	1073	1073	1074	1074.5	1075

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP227 TO CP229

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{4400}{4 \times 300} = 3.6$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 2.4

	NSTPS			
RS	4/6	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.02	.045	.07	4400	.0061 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1000	1020	1040	1055	1150	1275	1325
RY	1050.9	1050.5	1050.5	1050	1050	1052	1054	1056

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP 228 TO 229 CP

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{3550}{4 \times 300} = 2.95$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 2.4

	NSTPS			
RS	~~3~~5	—	—	1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.02	.045	.07	3550	.0061 ½

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1020	1040	1055	1150	1275	1325
RY	1050.9	1050.5	1050.5	1050	1050	1052	1054	1056

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-21-91

ROUTING PARAMETERS

River Route

RCP228A TO RCP 245

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{10560}{6 \times 300} = 6$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. = 3.1

	NSTPS			
RS	~~6~~ 11	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	10560	.0025

An assumed channel width is used to route flows in both the Agua Fria and Gila rivers

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1066	1066	1066	1050	1050	1066	1066	1066

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP 229 TO CP 230A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2100}{4 \times 300} = 1.75$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 2.0

	NSTPS			
RS	24	—	-1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.03	.05	.07	2100	.0011

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1005	1010	1020	1040	1050	1060	1140
RY	47	47	46.5	46	46	47	48	50

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP 229 TO CP 230

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{1850}{4 \times 300} = 1.54$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 2.8

	NSTPS			
RS	2	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.02	.045	.06	1850	.005 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	980	985	990	1000	1020	1040	1100	1150
RY	1044	1043.5	1042.5	1042	1042	1044	1044.5	1045

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CD229 TO CP231

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTAS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2400}{3 \times 400} = 2$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.1

	NSTPS			
RS	27	—	-1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.07	.05	.07	2400	.0020 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1040	1075	1110	1340	1400	1830
RY	1038.5	1038	1036	1035	1035	1036	1038	1038.5

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-1-90

ROUTING PARAMETERS

CP 230TO CP244

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{1450}{4 \times 300} = 1.2 = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 2.7

	NSTPS			
RS	1 2	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.03	.04	.05	1450	.0027 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1020	1030	1050	1110	1250	1475
RY	1034.5	1034	1034	1032.5	1032.5	1034	1035	1036

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP230ATO CP230

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{1000}{4 \times 300} = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 3.7

	NSTPS.			
RS	1	—	-1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.05	.035	.03	1000	.0091 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1005	1015	1020	1040	1060	1080	1100
RY	1041	1041	1040.5	1040	1040	1040.5	1040.6	1040.6

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP230ATO CP244A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{1400}{4 \times 300} = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = .46

	NSTPS			
RS	X10	—	—1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.07	.07	.07	1400	.00043 ½

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1005	1010	1040	1140	1150	1275	1400
RY	46	46	46	44	44	46	47	48

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP231 TO CP245

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} \qquad \frac{6300}{4 \times 300} = 5$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.1

	NSTPS			
RS	~~5~~ 19	—	—1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.07	.05	.07	6300	.0020%

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1040	1075	1110	1340	1600	1830
RY	1032.5	1032	1030	1029	1029	1030	1032	1032.5

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP232 TO CP246

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.3

	NSTPS	–	-1	0
RS	~~8~~6.0	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	7800	.0033

$$= \frac{1156-1130}{7800}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1080	1105	1120	1135	1300	1400
RY	1047	1046	1047	1044	1044	1046	1048	1050

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP233 TO CP234

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.6

	NSTPS	–	–1	0
RS	~~3~~ 2	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0057

$$= \frac{1132 - 1117}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1540	1930	1965	1980	2009	2010
RY	1031	1030	1028	1026	1026	1028	1029	1029

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP234 TO CP248

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.6

	NSTPS	–	-1	0
RS	~~7~~5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.04	6550	.0050

$$= \frac{1117 - 1084}{6550}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1090	1100	1130	2000
RY	1102	1101	1101	1100	1100	1101	1100	1102

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-14-90

ROUTING PARAMETERS

CP234 TO CP235

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.6

	NSTPS	–	-1	0
RS	3	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.06	.025	.025	2640	.0023

$$= \frac{1117 - 1111}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1460	1900	1915	1930	1958	1959	1960
RY	1018	1016	1016	1014	1014	1015	1015	1015

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP235 TO CP248

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.6

NSTPS	–	-1	0
RS	~~6~~4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.04	5280	.0051

$$= \frac{1111 - 1084}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1090	1100	1130	2000
RY	1102	1101	1101	1100	1100	1101	1100	1102

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP235 TO CP236

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.8

	NSTPS	–	-1	0
RS	~~65~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.02	.02	5280	.0051

$$= \frac{1111 - 1084}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1640	1660	1675	1685	1778	1779	1780
RY	1097	1094	1095	1094	1094	1095	1095	1095

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-17-90

ROUTING PARAMETERS

CP236 TO CP249

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.7

	NSTPS	–	-1	0
RS	6	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.075	5280	.0036

$$= \frac{1084 - 1065}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1100	1110	1280	1520
RY	1073	1073	1073	1072	1072	1074	1076	1078

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP236 TO CP250

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .64

	NSTPS	–	-1	0
RS	~~8~~ 59	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	7540	.0047

$$= \frac{1084 - 1056}{5910}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1140	2330	2718	2719	2720
RY	1071	1071	1071	1070	1070	1071	1071	1071

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP 236 TO CP 237

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.9

NSTPS	–	-1	0
RS	~~32~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.02	.02	2640	.0038

$$= \frac{1084 - 1074}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1070	1100	1120	1150	1178	1179	1180
RY	1079	1075	1082	1076	1076	1077	1077	1078

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/24/91

ROUTING PARAMETERS

CP237 TO CP250

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.7

	NSTPS	–	–1	0
RS	~~6~~ 10	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0032

$$= \frac{1073-1056}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1120	1670	1929	1930
RY	1059	1058.5	1058.5	1058	1058	1060	1061	1061

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-17-90

ROUTING PARAMETERS

CP237 TO CP238

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 6.8

	NSTPS	–	-1	0
RS	~~3~~1	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.02	.02	2640	.0049

$$= \frac{1074 - 1061}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1545	1560	1570	1585	1618	1619	1620
RY	1069	1066	1067	1062.5	1062.5	1067	1067	1067

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/24/91

ROUTING PARAMETERS

CP237 TO CP250A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.75

	NSTPS	–	-1	0
RS	7 M	–	-1	0

	Nleft	Nchan	Nright	length	Slope
RC	.02	.035	.075	6550	.0040

$$= \frac{1071 - 1045}{6550}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1050	1070	1220	1580	1839	1840
RY	1051	1050	1051	1050	1050	1052	1054	1054

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-17-90

ROUTING PARAMETERS

CP238 TO CP250A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .89

NSTPS	–	-1	0
RS	620	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.035	.075	5280	.0030

$$= \frac{1061 - 1045}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1030	1050	1070	1220	1580	1839	1840
RY	1051	1050	1051	1050	1050	1052	1054	1054

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP238 TO CP251

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .47

NSTPS	–	-1	0
RS	~~7~~42	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	5910	.00411

$$= \frac{1061 - 1037}{5910}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1120	2210	2488	2489	2490
RY	1047	1047	1047	1046	1046	1047	1047	1047

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP238 TO CP239

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.5

NSTPS	–	-1	0
RS	34	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.02	.02	2640	.0023

$$= \frac{1061 - 1055}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1230	1780	1790	1800	1810	1829	1830
RY	1062	1060	1058	1056	1056	1058	1059	1059

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP239 TO CP240

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = 1.75

NSTPS	–	-1	0
RS	~~9~~ 5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.02	.02	2640	.0007

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1510	1755	1765	1775	1785	1809	1810
RY	1058	1056	1054	1052	1052	1054	1055	1055

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP239 TO CP251

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.8

	NSTPS	–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5280	.0034

$$= \frac{1055 - 1037}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1055	1095	1770	1959	1960
RY	1049.5	1049	1049	1048	1048	1050	1051	1051

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP240 TO CP241

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.3

	NSTPS	–	-1	0
RS	~~65~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.02	.02	3600	.0011

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1280	1620	1745	1770	1798	1799	1800
RY	1056	1054	1052	1050	1050	1051	1051	1054

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2-18-90

ROUTING PARAMETERS

CP241 TO CP253

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 4.5

NSTPS	–	-1	0
RS	~~6~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.03	.075	5700	.0039

$$= \frac{1046 - 1024}{5700}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1440	1565	1585	1700	2324	2325
RY	1030	1030	1028	1026	1026	1028	1030	1030

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP242 TO CP243B

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{1500}{4 \times 300} = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 7.4

	NSTPS			
RS	1	—	-1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.04	.022	.04	1500	.0036 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	970	975	980	1000	1030	1050	1055	1060
RY	1045	1045	1044	1039	1039	1044	1045	1045

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP242A TO CP242

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{5240}{4 \times 300} = 4$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 4.4

	NSTPS			
RS	4	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.04	.022	.04	5240	.0036 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	970	975	980	1000	1020	1040	1045	1050
RY	1056	1056	1055	1050	1050	1055	1055	1056

Assume 20 ft channel with 4:1 side slopes = 5 ft deep

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP243 TO CP245

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{3200}{4 \times 300} = 2.7 = 3$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. = 7.2

	NSTPS			
RS	31	—	-1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.04	.022	.04	3200	.0036

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	960	970	980	1000	1060	1080	1090	1100
RY	1023	1023	1022	1017	1017	1022	1023	1023

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP243A TO CP243

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{3700}{4 \times 300} = 3$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 7.5

	NSTPS			
RS	~~3~~ 2	—	—1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.04	.022	.04	3700	.0036 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	960	970	980	1000	1040	1060	1065	1070
RY	1035	1035	1034	1029	1029	1034	1035	1035

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP243BTO CP 243A

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{50}{4 \times 300} = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 7.5

	NSTPS			
RS	1	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.04	.022	.04	50	.0036 ft/ft

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	970	975	980	1000	1030	1050	1055	1060
RY	1044	1044	1043	1038	1038	1043	1044	1044

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-13-90

ROUTING PARAMETERS

CD244 TO CD243

METHOD USED: NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{2800}{4 \times 300} = 2.3$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 20

	NSTPS			
RS	25	—	-1	0

	N LEFT	N CHAN	N RIGHT	LENGTH	SLOPE
RC	.025	.035	.06	2800	.0016 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1015	1020	1025	1035	1040	1060	1080
RY	1032.5	1032	1032	1031	1031	1032	1034	1034.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP 244 TO CP 245

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. } \times \text{Time Interval}} = \frac{5500}{4 \times 300} = 4.6 = 5$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.7

	NSTPS			
RS	5 11	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.07	.05	.07	5500	.0020 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1010	1040	1075	1110	1340	1600	1630
RY	325	32	30	29	29	30	32	325

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 12-11-90

ROUTING PARAMETERS

CP244A TO CP244

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{1650}{4 \times 300} = 1.4 = 1$$

Time Interval = 5 min Assumed Vel = 4 ft/sec

Actual Vel. = 1.1

	NSTPS			
RS	15	—	1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.05	.05	.05	1650	.00625

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1200	1400	1700	2175	3000	3160	3300
RY	40	39	38	36	36	38	39	40

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-21-91

ROUTING PARAMETERS

RIVER ROUTE

RCP245 TO RCP258

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} \quad \frac{2800}{6 \times 300} = 1.5$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. = 3.1

	NSTPS			
RS	23	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	2800	.0025

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1051	1051	1051	1035	1035	1051	1051	1051

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 12-15-90

ROUTING PARAMETERS

CP246 TO CP260

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 6.0

NSTPS	–	-1	0
RS	63	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.022	.022	.025	5280	.0053

$$= \frac{1130 - 1102}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1060	1120	1300	1480
RY	1114	1113	1113	1112	1112	1114	1116	1118

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-15-90

ROUTING PARAMETERS

CP242 TO CP261

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = No Flow

	NSTPS	–	–1	0
RS	6	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.03	.03	.075	5280	.0051

$$= \frac{1110 - 1083}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1090	1220	1460	1760
RY	1101	1101	1101	1100	1100	1102	1104	1106

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-15-90

ROUTING PARAMETERS

CP247 TO CP248

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.7

NSTPS	–	–1	0
RS 6	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.03	.03	5280	.0049

$$= \frac{1110 - 1084}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1370	1800	1950	2080	2108	2109	2110
RY	1100	1098	1096	1094	1094	1095	1095	1095

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP248 TO CP262

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.8

	NSTPS	–	-1	0
RS	65	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.075	5280	.0053

$$= \frac{1084 - 1056}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1060	1150	1520	1889	1890
RY	1072	1071	1071	1070	1070	1072	1074	1074

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP248 TO CP249

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.7

	NSTPS	–	-1	0
RS	~~6~~ 10	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	5280	.0036

$$= \frac{1084 - 1065}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1290	1690	1970	2000	2028	2029	2030
RY	1085	1084	1082	1080	1080	1081	1081	1081

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP249 TO CP264

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 20

NSTPS	–	-1	0
RS	~~6~~ 9	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	5280	.0044

$$= \frac{1065 - 1042}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1040	1060	1130	2030
RY	1057	1057	1057	1056	1056	1057	1056	1059

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP249 TO CP250

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 3.2

	NSTPS	–	-1	0
RS	6	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.03	.03	5280	.0040

$$= \frac{1065-1056}{2250}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1580	1660	1670	1705	1728	1729	1730
RY	1059.5	1058	1059	1058	1058	1059	1059	1059.5

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 1/21/91

ROUTING PARAMETERS

CP250 TO CP250A section as CP249 → 250

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.1

NSTPS	–	-1	0
RS	~~35~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.05	.03	.03	3050	.0036

$$= \frac{1056 - 1045}{3050}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1580	1660	1670	1705	1728	1729	1730
RY	1051	1050	1051	1050	1050	1051	1051	1051

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/24/91

ROUTING PARAMETERS

CP250A TO CP 265A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .26

	NSTPS	–	-1	0
RS	~~6~~ 68	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.03	.07	5280	.0032

$$= \frac{1045 - 1028}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1560	1820	2350	2819	2820
RY	1035	1035	1035	1034	1034	1036	1038	1038

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP250A TO CP266

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.4

NSTPS	–	-1	0
RS	~~7~~15	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.075	6230	.0034

$$= \frac{1045 - 1024}{6230}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1060	1110	1838	1839	1840
RY	1031	1031	1031	1030	1030	1032	1032	1032

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP250ATO CP251

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.9

	NSTPS			
RS	3	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.03	.03	2550	.0031

$$= \frac{1045-1037}{2550}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1440	1650	1680	1708	1709	1710
RY	1043	1043	1042	1040	1040	1041	1041	1042

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP251 TO CP266

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.8

	NSTPS	–	–1	0
RS	6	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.03	.03	.075	5280	.0025

$$= \frac{1037 - 1024}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1060	1110	1838	1839	1840
RY	1032	1031	1031	1030	1030	1032	1032	1032

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/24/91

ROUTING PARAMETERS

CP251 TO CP252

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.5

	NSTPS	–	-1	0
RS	~~4~~ 6	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0019

$$= \frac{1037 - 1032}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1240	1880	1970	1998	1999	2000
RY	1039	1039	1038	1036	1036	1037	1037	1037

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP252 TO CP267

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.2

	NSTPS	–	-1	0
RS	~~6~~ 8	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.02	.03	.075	5280	.0032

$$= \frac{1032 - 1015}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1060	1020	1050	1065	1085	1590	1919	1920
RY	1027	1026	1027	1026	1026	1028	1029	1029

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP252 TO CP253

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .90

	NSTPS	–	–1	0
RS	~~3~~ 11	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2900	.0028

$$= \frac{1032 - 1024}{2900}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1910	1930	1958	1959	1960
RY	1032	1032	1030	1028	1028	1029	1029	1029

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP253A TO CP253

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .90

	NSTPS	–	-1	0
RS	~~3~~ 10	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	2800	.0039

$$= \frac{1035 - 1024}{2800}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1010	1110	1320	1480	1709	1710
RY	1027	1027	1026	1025	1025	1026	1027	1027

Form 209

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP253 TO CP268

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.7

	NSTPS	–	–1	0
RS	67	–	–1	0

	Nleft	Nchan	Nright	length	Slope
RC	.075	.03	.075	5280	.0023

$$= \frac{1024 - 1012}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1400	1520	2630	2629	2628
RY	1022	1022	1022	1020	1020	1022	1022	1022

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/8/91

ROUTING PARAMETERS

CP254 TO CP269

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .70

NSTPS		–	-1	0
RS	625	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	5150	.0031

$$= \frac{1026 - 1010}{5150}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1050	1950	2268	2269	2270
RY	1021	1021	1021	1020	1020	1021	1021	1021

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP254A TO CP270

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.3

	NSTPS	–	-1	0
RS	~~7~~ 11	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.05	.05	4450	.0025

$$= \frac{1023 - 1013}{4450}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1180	1310	1398	1399	1400
RY	1017	1017	1017	1016	1016	1017	1017	1017

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP255 TO CP271

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .79

	NSTPS			
RS	~~8~~21	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	4950	.0012

$$= \frac{1020 - 1014}{4950}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1200	1490	1830	2029	2030
RY	1015	1015	1015	1014.5	1014.5	1016	1017	1017

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/21/91

ROUTING PARAMETERS

CP256 TO CP255

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.0

	NSTPS	–	–1	0
RS	56	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.075	1700	.0012

$$= \frac{1023 - 1021}{1700}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1080	1600	1689	1690
RY	1023	1023	1023	1022	1022	1024	1025	1025

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/21/91

ROUTING PARAMETERS

CP256 TO CP271A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.5

NSTPS	–	–1	0
RS	46	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.03	.03	2550	.0020

$$= \frac{1023 - 1018}{2550}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1200	1860	1880	1888	1889	1890
RY	1021	1021	1020	1018	1018	1019	1019	1019

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/21/91

ROUTING PARAMETERS

CP257 TO CP256

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .72

	NSTPS	–	-1	0
RS	412	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	2680	.0018

$$= \frac{1028 - 1023}{2680}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1010	1540	1858	1859	1860
RY	1025.5	1025	1025	1024	1024	1025	1025	1025.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/10/91

ROUTING PARAMETERS

CP257 TO CP271B

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .46

	NSTPS	–	–1	0
RS	~~8~~ 33	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.05	.075	.075	4520	.0022

$$= \frac{1028 - 1018}{4520}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1120	1240	1470	2010	2038	2039	2040
RY	1026	1024	1022	1020	1020	1021	1021	1021

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-21-91

ROUTING PARAMETERS

RIVER ROUTE

RCP258 TO RCP272

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel. x Time Interval}} = \frac{4500}{6 \times 300} = 2.5$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. = 3.1

	NSTPS			
RS	27	—	-1	0

	N LEFT	NCHAN	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	4500	.0025

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1015	1015	1015	1000	1000	1015	1015	1015

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/10/91

ROUTING PARAMETERS

CP258A TO CP271C

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .80

	NSTPS	–	-1	0
RS	19	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.025	.025	2180	.0041

$$= \frac{1019 - 1010}{2180}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1150	1200	1300	1328	1329	1330
RY	1019	1018	1016	1015	1015	1016	1016	1016

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/21 /91

ROUTING PARAMETERS

CP258A TO CP272

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = 1.0

	NSTPS	–	-1	0
RS	5	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.04	1600	.0019

$$= \frac{3}{1600}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1320	1329	1330	1340
RY	1019.5	1019	1019	1018	1018	1020	1020	1020

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP258A TO CP259

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.0

	NSTPS	–	-1	0
RS	~~1~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.025	.025	1300	.0054

$$= \frac{1019 - 1012}{1300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1250	1390	1418	1419	1420
RY	1017	1017	1017	1016	1016	1016.5	1016.5	1016.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/21 /91

ROUTING PARAMETERS

CP259 TO CP272

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 8.0 ft/sec

Actual vel = No Flow

	NSTPS	–	-1	0
RS	1	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.04	980	.015

$= \frac{15}{980}$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1090	1110	1300	1328	1329	1330
RY	1004	1004	1000	996	996	1000	1000	1000

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP260 TO CP273

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = 5.5

NSTPS	–	–1	0
RS	~~5~~ 4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.022	.022	.025	6100	.0072

$$= \frac{1100 - 1056}{6100}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1090	1130	1210	1450
RY	1093.5	1093	1093	1092	1092	1093	1092	1096

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP261 TO CP274

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = 2.4

NSTPS	–	–1	0
RS	~~5~~ 9	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.030	.030	.075	6200	.0065

$$= \frac{1083 - 1043}{6200}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1015	1035	1370	1650	1970
RY	1071	1071	1071	1070	1070	1072	1074	1076

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-15-90

ROUTING PARAMETERS

CP261 TO CP277

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = .43

NSTPS	–	-1	0
RS	766	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	8450	.00070

$$= \frac{1083 - 1024}{8450}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1150	2300	2598	2599	2600
RY	1067.5	1067	1067	1066	1066	1067	1067	1067.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP262 TO CP277

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.6

NSTPS	–	-1	0
RS	713	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.04	.04	.075	6300	.0049

$$= \frac{1056 - 1025}{6300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1020	1270	1820	2189	2190
RY	1047	1047	1047	1046	1046	1048	1050	1050

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/18/91

ROUTING PARAMETERS

CP262 TO CP278

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = LZ

	NSTPS	-1	0
RS	#28	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	10140	.0038

$$= \frac{1056 - 1017}{10140}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1500	1528	1529	1530
RY	1039	1039	1039	1038	1038	1039	1039	1039

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/18/91

ROUTING PARAMETERS

CP262 TO CP263

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.4

	NSTPS	–	–1	0
RS	4	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2640	.0027

$$= \frac{1056 - 1049}{2640}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1300	1820	1860	1870	1879	1880
RY	1056	1056	1054	1052	1052	1054	1055	1055

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP263 TO CP278

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.3

NSTPS	–	-1	0
RS	~~8~~ 19	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.05	.075	.075	7300	.0044

$$= \frac{1049 - 1017}{7300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1060	1045	1120	1200	1580	1630	1649	1650
RY	1027	1026	1027	1026	1026	1028	1029	1029

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP 263 TO CP 264

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.5

NSTPS	–	-1	0
RS	~~2~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	1900	.0037

$$= \frac{1049 - 1042}{1900}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1320	1710	1990	1993	1994	1995
RY	1050	1050	1048	1046	1046	1047	1047	1047

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP264 TO CP278

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.0

	NSTPS	–	-1	0
RS	~~618~~	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.05	.075	.075	5280	.0047

$$= \frac{1042 - 1017}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1045	1120	1200	1580	1630	1649	1650
RY	1027	1026	1027	1026	1026	1028	1029	1029

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/18/91

ROUTING PARAMETERS

CP265 TO CP265A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.5

	NSTPS	–	–1	0
RS	~~6~~12	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	5250	.0029

$$= \frac{1043-1028}{5250}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1210	1730	1960	2050	2078	2079	2080
RY	1041	1040	1038	1036	1036	1037	1037	1037

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-17-90

ROUTING PARAMETERS

CP265A TO CP281

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 1.2

NSTPS	–	-1	0
RS	~~6~~ 15	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.05	.075	5280	.0036

$$= \frac{1028 - 1009}{5280}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1210	2060	2090	2760	2969	2970
RY	1017	1017	1016	1014	1014	1016	1017	1017

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP266 TO CP283

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.7

NSTPS	–	-1	0
RS	~~10~~ 12	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.03	.03	.075	5900	.0017

$$= \frac{1024 - 1014}{5900}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1050	1240	1479	1480
RY	1021.5	1021	1021	1020	1020	1022	1023	1023

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP266 TO CP267

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 22

	NSTPS	–	-1	0
RS	~~3~~ 4	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2500	.0036

$$= \frac{1024 - 1015}{2500}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1680	1890	1908	1909	1910
RY	1021	1021	1021	1020	1020	1021	1021	1021

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP267 TO CP268

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.5

NSTPS		–	–1	0
RS	~~4~~5	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	2350	.0013

$$= \frac{1015 - 1012}{2350}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1220	1600	1890	1928	1929	1930
RY	1017	1017	1016	1014	1014	1015	1015	1015.5

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/14/91

ROUTING PARAMETERS

CP267 TO CP284

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = 2.3

	NSTPS	–	–1	0
RS	~~20~~ 9	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.025	.05	6080	.0015

$$= \frac{1015 - 1010}{6080}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	598	599	600	610	1060	1190	1740	1940
RY	1013	1013	1013	1012	1012	1014	1016	1017

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 12-18-90

ROUTING PARAMETERS

CP268 TO CP286

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.0

	NSTPS	–	-1	0
RS	~~6~~ 11	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.05	.075	6700	.0031

$$= \frac{1012 - 991}{6700}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1260	1650	2410	2870	2059	2060
RY	1003	1003	1002	1000	1000	1002	1004	1004

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP269 TO CP288A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .43

	NSTPS	–	–1	0
RS	650	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	6400	.0033

$$= \frac{1012 - 991}{6400}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1300	2400	2898	2899	2900
RY	1001	1001	1001	1000	1000	1001	1001	1001

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP270 TO CP289

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .69

	NSTPS	–	-1	0
RS	~~13~~ 38	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.07	.07	7920	.0028

$$= \frac{1013 - 991}{7920}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1170	2120	2208	2209	2210
RY	1003	1003	1003	1002	1002	1003	1003	1003

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP271 TO CP270

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = .78

NSTPS	–	-1	0
RS	~~8~~ 10	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.04	2300	.0009

$$= \frac{1014 - 1012}{2300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1015	1090	1180	1230	1289	1290
RY	1015	1015	1014	1013	1013	1014	1016	1016

The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP271 TO CP289

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .91

	NSTPS	–	-1	0
RS	~~14~~ 30	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.07	.07	.07	8250	.0028

$$= \frac{1014 - 991}{8250}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1170	2120	2208	2209	2210
RY	1003	1003	1003	1002	1002	1003	1003	1003

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 8 /91

ROUTING PARAMETERS

CP271 ATO CP271

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average Velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 1.0 ft/sec

Actual vel = .99

	NSTPS	–	–1	0
RS	~~14~~ 29	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	4290	.0009

$$= \frac{1018 - 1014}{4290}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1200	1490	1830	2029	2030
RY	1015.5	1015	1015	1014.5	1014.5	1016	1017	1017

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/ 9 /91

ROUTING PARAMETERS

CP271B TO CP 271C

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.7

	NSTPS			
RS	67	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.025	.025	.025	3590	.0022

$$= \frac{1018 - 1010}{3590}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1040	1150	1200	1300	1328	1329	1330
RY	1019	1018	1016	1015	1015	1016	1016	1016

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 2/21 /91

ROUTING PARAMETERS

CP271C TO CP272

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = .62

	NSTPS			
RS	~~1~~3	–	–1	0
		–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.04	.04	.04	570	.002

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1020	1100	1590	1598	1599	1600
RY	1010	1010	1008	1006	1006	1008	1010	1010

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 2-21-91

ROUTING PARAMETERS

RIVER ROUTE

RCP 272 TO RCP 290

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel.} \times \text{Time Interval}} = \frac{3400}{6 \times 300} = 1.8$$

Time Interval = 5 min Assumed Vel = 6 ft/sec

Actual Vel. = 3.1

	NSTPS			
RS	74	—	—1	0

	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.035	.035	.035	3400	.0025

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1042	2042	2082	2083	2084
RY	1009	1009	1009	994	994	1009	1009	1009

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP273 TO CP274

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = 3.9

	NSTPS	–	–1	0
RS	2	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.07	.025	.025	1900	.0074

$$= \frac{1057 - 1043}{1898}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1130	1300	1580	1630	1658	1659	1660
RY	1055	1054	1052	1050	1050	1057	1057	1057

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP273 TO CP292

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 5.2

	NSTPS	–	-1	0
RS	16	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.025	.02	.025	9670	.0042

$$= \frac{1054 - 1013}{9670}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1050	1150	1450	1630
RY	1028	1027	1027	1026	1026	1028	1030	1031

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP274 TO CP275

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = No Flow

	NSTPS	–	–1	0
RS	2	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	1350	.0058

$$= \frac{1046 - 1038}{1386}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1120	1500	1610	1698	1699	1700
RY	1045	1045	1044	1042	1042	1061	1061	1061

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP274 TO CP292

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = 4.9

NSTPS	–	–1	0
RS	4/3	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.025	.025	.025	4300	.0070

$$= \frac{1043 - 1013}{4300}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1025	1050	1150	1450	1630
RY	1028	1027	1027	1026	1026	1028	1030	1031

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/17/91

ROUTING PARAMETERS

CP275 TO CP293

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = .59

	NSTPS	–	-1	0
RS	~~4~~ 24	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.075	.075	4210	.0074

$$= \frac{1038 - 1007}{4210}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1090	1420	2090	2299	2300
RY	1019	1019	1019	1018	1018	1020	1021	1021

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP275 TO CP276

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = No Flow

	NSTPS	–	–1	0
RS	1	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.030	.030	1230	.0040

$$= \frac{1040 - 1035}{1235}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1120	1480	1870	1890	1909	1910
RY	1043	1043	1042	1040	1040	1042	1043	1043

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/17/91

ROUTING PARAMETERS

CP276 TO CP293

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4.0 ft/sec

Actual vel = .59

	NSTPS	–	-1	0
RS	424	–	-1	0

	N left	N chan	N right	Length	Slope
RC	.075	.075	.075	4210	.0066

$$= \frac{1035 - 1007}{4210}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1090	1420	2090	2299	2300
RY	1019	1019	1019	1018	1018	1020	1021	1021

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP276 TO CP277

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.5

NSTPS	–	–1	0
RS	54	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.025	.025	2684	.0041

$$= \frac{1035 - 1024}{2684}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1190	1420	1530	1560	1570	1590	1620
RY	1037	1036	1034	1032	1032	1034	1036	1039

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COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP277 TO CP279D

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 4 ft/sec

Actual vel = No Flow

	NSTPS	–	–1	0
RS	1	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.075	.035	.035	400	.0075

$$= \frac{1025 - 1022}{400}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1130	1520	1860	1875	1899	1900
RY	1025	1025	1024	1022	1022	1024	1025	1025

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/17/91

ROUTING PARAMETERS

CP277 TO CP293

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = 2.45

	NSTPS	–	–1	0
RS	67	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.035	.035	.075	5460	.0031

$$= \frac{1024 - 1007}{5460}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1110	1150	1750	2130
RY	1014	1011	1011	1010	1010	1012	1014	1016

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP278 TO CP279

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 2.3

	NSTPS			
RS	3	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.035	.035	.075	1850	.0022

$$= \frac{1017 - 1013}{1850}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1030	1200	1430	1549	1550
RY	1017.5	1017	1017	1016	1016	1018	1019	1019

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by JSE Date 9-26-91

ROUTING PARAMETERS

CP 279 TO CP 280

METHOD USED : NORMAL DEPTH

CROSS SECTION DATA

$$NSTPS = \frac{\text{REACH LENGTH}}{\text{Avg. Vel} \times \text{Time Interval}} = \frac{2700}{3 \times 300} = 3$$

Time Interval = 5 min. Assumed Vel = 3 ft/sec

Actual Vel = 3.0 ft/sec

NSTPS					
RS	3	—	-1	0	
	N LEFT	N CHAN.	N RIGHT	LENGTH	SLOPE
RC	.04	.04	.03	2700	.0012 1/1

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	9400	9600	9900	9950	10050	10090	10160	10200
RY	1016	1012	1011	1010.6	1010.6	1012	1020	1028

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/17/91

ROUTING PARAMETERS

CP 279 TO CP294A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = 1.7

	NSTPS	–	–1	0
RS	~~4~~ 5	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.03	.03	.03	2340	.0017

$$= \frac{1013 - 1009}{2340}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1040	1670	1940	1999	2000
RY	1011	1011	1011	1010	1010	1012	1013	1013

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/17/91

ROUTING PARAMETERS

CP279A TO CP294A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .08

	NSTPS			
RS	~~2~~ 6	–	–1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.03	1700	.0035

$$= \frac{1015 - 1009}{1700}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1090	1400	1620	1870	1970
RY	1012	1011.5	1011	1010	1010	1012	1014	1015

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AOUAD Date 1/16/91

ROUTING PARAMETERS

CP279A TO CP279

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 2.0 ft/sec

Actual vel = No Flow

	NSTPS	–	–1	0
RS	3	–	–1	0

	N left	N chan	N right	Length	Slope
RC	.075	.035	.035	1515	.0023

$$= \frac{1016.5 - 1013}{1515}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1130	1820	1860	1875	1899	1900
RY	1025	1025	1024	1022	1022	1024	1025	1025

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The WLB Group Inc. WLB

COMPUTATION DATA SHEET

Subject WHITE TANKS / AGUA FRIA ADMS Prepared by G. AQUAD Date 1/17/91

ROUTING PARAMETERS

CP279B TO CP294A

METHOD USED: NORMAL DEPTH

CROSS-SECTION DATA:

$$NSTPS = \frac{\text{Reach Length}}{\text{Average velocity} \times \text{Time Interval}}$$

Time Interval = 5 min = 300 sec

Assume V_{av} = 3.0 ft/sec

Actual vel = .52

	NSTPS	–	-1	0
RS	~~315~~	–	-1	0

	Nleft	Nchan	Nright	Length	Slope
RC	.03	.03	.03	2340	.0047

$$= \frac{1020 - 1009}{2340}$$

	LOB	LOB	LB	CH	CH	RB	ROB	ROB
RX	1000	1001	1002	1090	1400	1620	1870	1970
RY	1011	1011	1011	1010	1010	1012	1014	1015

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