

Appendix F - Hydrology Model Developments

F.1 Comparison of Original 1992 Model to 1992 Model Adapted to SWMM

The HEC-1 input file labeled “HNBDVRNN.HC1” is the 1992 HEC-1 input file for the 1992 Plan, for the 100-year event, peak storm centering at the Vernon Street crossing, and the Future Fully Developed, Unmitigated conditions. The peak precipitation input for this model was HEC-1 gage value 12 which was included at watersheds SE51 and SE55. All precipitation gages referenced in this HEC-1 file produced precipitation for a 6-hour rainfall event, and the model was run for a 24-hour timespan.

The base file was adapted to Kinematic Wave methodology and made ready for precipitation to be input in the file: “DC1992UN.INP”. “PDP.EXE” (Version 2.0) was used to insert 6-hour, 100-year precipitation tables into the “DC1992UN.DAT” file for a storm centering locations of SE51 and SE55, and storm angles of 0, 30, 60, and 90 degrees. An “ELTROID.DAT” file was created based on the watershed centroids obtained from the AUTOCAD drawings from the 1992 Plan.

The results indicate that the SWMM Kinematic Wave equivalent analysis generates higher flow rates. This is largely the result of the application of an alternate storm centering methodology (per SWMM 1994).

The centering analysis on the Kinematic Wave converted HEC-1 analysis found that a storm centering at SE51, with a storm angle of 60 degrees would generate the highest flows. The SWMM also requires that precipitation be applied differently for different elevations. The adapted model used a SWMM specified total 6-hour storm event precipitation for a 100-year event storm centered at SE55, at an angle of 0 degrees and with elevation factored (peak for Vernon Street Crossing).

Since the storm centering for the 1992 Plan was based on calibration to actual events, the results of this section indicate that a simple conversion and adaptation of the model to the SWMM requirements will not result in properly calibrated results. Additional modifications to the analysis would be necessary to get calibrated results with an HEC-1 model modified to meet the requirements of the SWMM.

F.2 Response Time Factors

Overland flow response time factors were determined using relationships based solely on watershed imperviousness. These relationships are illustrated



Chart F.1 Overland Slope and Length Based on Imperviousness for Calibrated Response Times

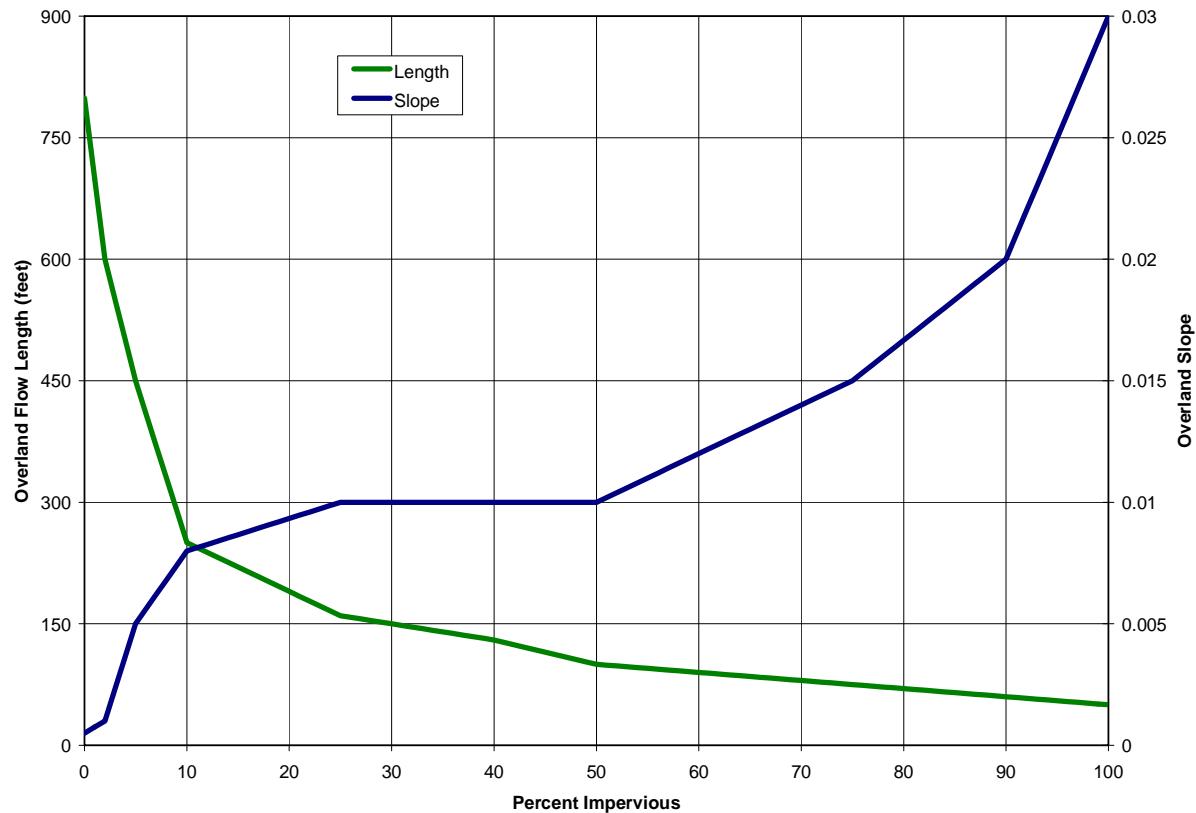


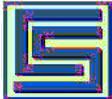
Table F.1 Overland Slope and Length Based on Imperviousness for Calibrated Response Times

Imperviousness (percent)	Length (feet)	Slope (feet/foot)
0	799	0.0005
2	600	0.001
5	450	0.005
10	250	0.008
25	160	0.01
40	130	0.01
50	100	0.01
75	75	0.015
90	60	0.02
100	50	0.03



Table F.2 Master Land Use Imperviousness and Infiltration Factors

SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
SCGPLU	A	Agriculture	2	0.31	0.16	0.09	0.07	AG
SCGPLU	CNCO	Community/Neighborhood Commercial & Offices	80	0.48	0.25	0.16	0.12	COMM
SCGPLU	HCW	Heavy Commercial or Warehouse	85	0.48	0.25	0.16	0.12	IND
SCGPLU	HDR	High Density Residential 30+ du/na	80	0.48	0.25	0.16	0.12	HDR
SCGPLU	I	Industrial	80	0.31	0.16	0.09	0.07	IND
SCGPLU	I-EI	Industrial-Employee Intensive	80	0.31	0.16	0.09	0.07	IND
SCGPLU	LDR	Low Density Residential 4-15 du/na	50	0.48	0.25	0.16	0.12	LDR
SCGPLU	MDR	Medium Density Residential 16-29 du/na	65	0.48	0.25	0.16	0.12	MDR
SCGPLU	MU	Mixed-Use	70	0.48	0.25	0.16	0.12	MU
SCGPLU	OS	Parks-Recreation-Open Space	2	0.31	0.16	0.09	0.07	OS
SCGPLU	PO	Public Offices	80	0.48	0.25	0.16	0.12	BP
SCGPLU	PQPM	Public/Quasi-Public-Miscellaneous	50	0.48	0.25	0.16	0.12	PQP
SCGPLU	PROS	Parks-Recreation-Open Space	5	0.31	0.16	0.09	0.07	REC
SCGPLU	RCO	Regional Commercial & Offices	80	0.48	0.25	0.16	0.12	COMM
SCGPLU	RE	Rural Estates	15	0.31	0.16	0.09	0.07	RE
SCGPLU	RMU	Residential Mixed Use	70	0.48	0.25	0.16	0.12	MU
SCGPLU	RMX	Residential Mixed Use	70	0.48	0.25	0.16	0.12	MU
SCGPLU	S	Schools	50	0.48	0.25	0.16	0.12	PQP
SCGPLU	SPD	Special Planning District	15	0.31	0.16	0.09	0.07	RR
SCGPLU	TU	Transportation/Utilities	90	0.31	0.16	0.09	0.07	COMM
SCGPLU	W	Water	80	0.31	0.16	0.09	0.07	PQP
SAGPLU	AG_CROP		2	0.31	0.16	0.09	0.07	AG
SAGPLU	AG_CROP/RCA		2	0.31	0.16	0.09	0.07	AG
SAGPLU	AG_REC_RES		5	0.31	0.16	0.09	0.07	RR
SAGPLU	AG-RES		5	0.31	0.16	0.09	0.07	RR
SAGPLU	COMM/OFF		80	0.48	0.25	0.16	0.12	BP
SAGPLU	CORE_AREA		80	0.48	0.25	0.16	0.12	CITY
SAGPLU	EXT_IND		85	0.31	0.16	0.09	0.07	IND
SAGPLU	EXT_IND/SM		85	0.31	0.16	0.09	0.07	IND
SAGPLU	GA_20		5	0.31	0.16	0.09	0.07	RR
SAGPLU	GA_20/RCA		5	0.31	0.16	0.09	0.07	RR
SAGPLU	GA_20/SM		5	0.31	0.16	0.09	0.07	RR
SAGPLU	GA_80		2	0.31	0.16	0.09	0.07	AG



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
SAGPLU	GA_80/RCA		2	0.31	0.16	0.09	0.07	AG
SAGPLU	GA_80/SM		2	0.31	0.16	0.09	0.07	AG
SAGPLU	HDR		75	0.48	0.25	0.16	0.12	HDR
SAGPLU	INT_IND		80	0.31	0.16	0.09	0.07	IND
SAGPLU	INT_IND/SM		80	0.31	0.16	0.09	0.07	IND
SAGPLU	LDR		40	0.48	0.25	0.16	0.12	LDR
SAGPLU	MDR		50	0.48	0.25	0.16	0.12	MDR
SAGPLU	NAT_PRES		2	0.31	0.16	0.09	0.07	OS
SAGPLU	NTOD		2	0.31	0.16	0.09	0.07	OS
SAGPLU	PQP		50	0.48	0.25	0.16	0.12	PQP
SAGPLU	PQP/RCA		50	0.48	0.25	0.16	0.12	PQP
SAGPLU	REC		5	0.48	0.25	0.16	0.12	REC
SAGPLU	REC/RCA		5	0.48	0.25	0.16	0.12	REC
SAGPLU	UDA		5	0.48	0.25	0.16	0.12	RES
SAGPLU	URB_RES		5	0.48	0.25	0.16	0.12	RES
SAGPLU	URB_RES/SM		5	0.48	0.25	0.16	0.12	RES
SAGPLU	UTOD		5	0.31	0.16	0.09	0.07	RES
PCGPLU	AG10-80	AGAgricultural 10 - 80 Ac. Min.Agricultural 10 - 80 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR10-15	HDRHigh Density Residential 10 - 15 DU/Ac.High Density Residential 10 - 15 DU/Ac.	75	0.48	0.25	0.16	0.12	HDR
PCGPLU	IN	INDIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	LDR.4-.9	LDRLow Density Residential 0.4 - 0.9 Ac. Min.Low Density Residential .4 - .9 Ac. Min.	35	0.48	0.25	0.16	0.12	LDR
PCGPLU	LMDR2-5	LMDRLow Medium Density Residential 2 - 5 DU/Ac.Low Medium Density Residential 2-5 DU/AC	40	0.48	0.25	0.16	0.12	MDR
PCGPLU	MDR5-10	MDRMedium Density Residential 5 - 10 DU./Ac.Medium Density Residential 5-10 DU/AC	50	0.48	0.25	0.16	0.12	MDR
PCGPLU	MU	MUMixed UseMixed Use	75	0.48	0.25	0.16	0.12	MU
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	O/BP	O/BOpen Space / Business ParkOpen Space / Business Park	2	0.31	0.16	0.09	0.07	BP
PCGPLU	PO	POProfessional OfficeProfessional Office	80	0.48	0.25	0.16	0.12	BP
PCGPLU	RD	RDRiparian DrainageRiparian Drainage	2	0.31	0.16	0.09	0.07	OS
PCGPLU	RE4.6-10	RERural Estate 4.6 - 10 Ac. Min.Rural Estate 4.6 - 10 Ac. Min.	5	0.31	0.16	0.09	0.07	RE
PCGPLU	RLDR.9-2.3	RLDRural Low Density Residential 0.9 - 2.3 Ac. Min.Rural Low Dens Res .9-2.3 Ac Min	15	0.31	0.16	0.09	0.07	RR
PCGPLU	RR2.3-4.6	RRRural Residential 2.3 - 4.6 Ac. Min.Rural Residential 2.3 - 4.6 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	200	See Alpine Meadows CP Documen*See Alpine Meadows CP DocumentationSee Alpine Meadows CP Documentation	2	0.31	0.16	0.09	0.07	REC
PCGPLU	AUBURN	AUBURNCity of AuburnJURISDICTION = AUBURN	50	0.31	0.16	0.09	0.07	CITY
PCGPLU	COLFAX	COLFAXCity of ColfaxJURISDICTION = COLFAX	50	0.31	0.16	0.09	0.07	CITY
PCGPLU	LINCOLN	LINCOLNCity of LincolnJURISDICTION = LINCOLN	50	0.31	0.16	0.09	0.07	CITY
PCGPLU	CEMETERY	CEMETERYCemetery Cemetery	15	0.48	0.25	0.16	0.12	CEM
PCGPLU	HDR6.1-20	HDRHigh Density Residential 6.1 - 20 DU./Ac.High Density Resid. 6.1 - 20 DU./Ac.	75	0.48	0.25	0.16	0.12	HDR
PCGPLU	LDR1-3.4	LDRLow Density Residential 1 - 3.4 DU./Ac.Low Density Residential 1 - 3.4 DU./Ac.	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR3.5-6	MDRMedium Density Residential 3.5 - 6 DU./Ac.Medium Density Residential 3.5-6 DU/Ac	50	0.48	0.25	0.16	0.12	MDR
PCGPLU	OR	OROffice RetailOffice Retail	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	PARK	PARKParkPark	5	0.48	0.25	0.16	0.12	REC
PCGPLU	RANCHETTE	Ranchette 2.5 - 20 Ac. Min.Ranchette 2.5 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	RR
PCGPLU	RE1.1-4.5	RERural Estate 1.1 - 4.5 Ac. Min.Rural Estate 1.1 - 4.5 Ac. Min.	15	0.31	0.16	0.09	0.07	RE
PCGPLU	SSC	SSCSpecial Study CorridorSpecial Study Corridor	2	0.31	0.16	0.09	0.07	RES
PCGPLU	VC	VCVisitor CommercialVisitor Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	W	Water InfluenceWater Influence	80	0.31	0.16	0.09	0.07	PQP



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	ROCKLIN	ROCKLINCity of RocklinJURISDICTION = ROCKLIN	50	0.31	0.16	0.09	0.07	CITY
PCGPLU	ROSEVILLE	ROSEVILLECity of RosevilleJURISDICTION = ROSEVILLE	50	0.31	0.16	0.09	0.07	CITY
PCGPLU	AGRES4.6	AG-DRAGriculture-Residential Development Reserve 4.6 - 20 Ac. Min.Ag-Resid Development Rsrve 4.6-20 Ac Min	5	0.31	0.16	0.09	0.07	RR
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	GREENOS	Greenbelt & Open SpaceGreenbelt & Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	HDR4-10	HDRHigh Density Residential 4 - 10 DU/Ac.High Density Residential 4 - 10 DU/AC.	70	0.48	0.25	0.16	0.12	HDR
PCGPLU	IN	INIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	IN-DR	IN-DRIndustrial Development ReserveIndustrial Development Reserve	80	0.31	0.16	0.09	0.07	IND
PCGPLU	LDR1-2	LDRLow Density Residential 1 - 2 DU./Ac.Low Density Residential 1 - 2 DU./Ac.	35	0.48	0.25	0.16	0.12	LDR
PCGPLU	PO	PROFProfessional OfficeProfessional Office	80	0.48	0.25	0.16	0.12	BP
PCGPLU	RLD1-2.3	RLD1-2.3Rural Low Density Residential 1 - 2.3 Ac. Min.Rural Low Dens Res 1-2.3 Ac Min	15	0.48	0.25	0.16	0.12	RE
PCGPLU	RR2.3-10	RR-DRRural Residential 2.3 - 10 Ac. Min.Rural Residential 2.3 - 10 Ac. Min.	15	0.48	0.25	0.16	0.12	RR
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	FOR20-160	FORESTRYForestry 20 - 160 Ac. Min.Forestry 20 - 160 Ac. Min.	2	0.31	0.16	0.09	0.07	OS
PCGPLU	FR4.6-20	FRForest Residential 4.6 - 20 Ac. Min.Forest Residential 4.6 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	RR
PCGPLU	IN	INIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	LDR2-4	LDRLow Density Residential 2 - 4 DU./Ac.Low Density Residential 2 - 4 DU./Ac.	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR4-10	MDRMedium Density Residential 4 - 10 DU./Ac.Medium Density Residential 4-10 DU/AC	50	0.48	0.25	0.16	0.12	MDR
PCGPLU	PF	PFPublic FacilityPublic Facility	50	0.48	0.25	0.16	0.12	PQP



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	RE2.3-4.6	RERural Estate 2.3 - 4.6 Ac. Min.Rural Estate 2.3 - 4.6 Ac. Min.	15	0.31	0.16	0.09	0.07	RE
PCGPLU	RR1-2.3	RRRural Residential 1 - 2.3 Ac. Min.Rural Residential 1 - 2.3 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	WPRI4.6-20	W/PRIWater Influence/Private Ownership 4.6 - 20 Ac. Min.Water Infl./Private Ownrshp 4.6-20 Ac Mi	5	0.31	0.16	0.09	0.07	PQP
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR4-10	HDRHigh Density Residential 4 - 10 DU/Ac.High Density Residential 4 - 10 DU/Ac.	70	0.48	0.25	0.16	0.12	HDR
PCGPLU	LDR.4-.9	LDRLow Density Residential 0.4 - 0.9 Ac. Min.Low Density Residential .4 - .9 Ac. Min.	35	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR2-4	MDRMedium Density Residential 2 - 4 DU/Ac.Medium Density Residential 2 - 4 DU/Ac.	40	0.48	0.25	0.16	0.12	MDR
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	PO	PROFProfessional OfficeProfessional Office	80	0.48	0.25	0.16	0.12	BP
PCGPLU	RE_4.6-20	RERural Estate 4.6 - 20 Ac. Min.Rural Estate 4.6 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	RE
PCGPLU	RLDR.9-2.3	RLDRRural Low Density Residential 0.9 - 2.3 Ac. Min.Rural Low Dens Res .9-2.3 Ac. Min.	15	0.31	0.16	0.09	0.07	LDR
PCGPLU	RLDR-DL.67	RLDRRural Low Density Residential 0.9 - 2.3 Ac. Min. Density Limit 0.67Rural Low Dens Res .9-2.3 Ac Min DL .67	15	0.31	0.16	0.09	0.07	LDR
PCGPLU	RLDR-DL.83	RLDRRural Low Density Residential 0.9 - 2.3 Ac. Min. Density Limit 0.83Rural Low Dens Res .9-2.3 Ac Min DL .83	15	0.31	0.16	0.09	0.07	LDR
PCGPLU	RR2.3-4.6	RRRural Residential 2.3 - 4.6 Ac. Min.Rural Residential 2.3 - 4.6 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR4-10	HDRHigh Density Residential 4 - 10 DU/Ac.High Density Residential 4 - 10 DU/Ac.	65	0.48	0.25	0.16	0.12	HDR
PCGPLU	IN	INIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	LDR.4-2.3	LDRLow Density Residential 0.4 - 2.3 Ac. Min.Low Density Resid. 0.4 - 2.3 Ac. Min.	15	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR2-4	MDRMedium Density Residential 2 - 4 DU/Ac.Medium Density Residential 2 - 4 DU/Ac.	40	0.48	0.25	0.16	0.12	MDR
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	PP	PENRYN PARKWAYPenryn ParkwayPenryn Parkway	2	0.31	0.16	0.09	0.07	ROAD
PCGPLU	RD	RDRiparian DrainageRiparian Drainage	2	0.31	0.16	0.09	0.07	OS
PCGPLU	RE4.6-20	RERural Estate 4.6 - 20 Ac. Min.Rural Estate 4.6 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	RE
PCGPLU	RR2.3-4.6	RRRural Residential 2.3 - 4.6 Ac. Min.Rural Residential 2.3 - 4.6 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	FOR40-640	FORForest 40 - 640 Ac. Min.Forest 40 - 640 Ac. Min.	2	0.31	0.16	0.09	0.07	OS
PCGPLU	FR2.5-10	FRForest Residential 2.5 - 10 Ac. Min.Forest Residential 2.5 - 10 Ac. Min.	5	0.31	0.16	0.09	0.07	RR
PCGPLU	GC	GCGeneral CommercialGeneral Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR10-15	HDRHigh Density Residential 10 - 15 DU/Ac.High Density Residential 10 - 15 DU/Ac.	70	0.48	0.25	0.16	0.12	HDR
PCGPLU	LDR1-5	LDRLow Density Residential 1 - 5 DU./Ac.Low Density Residential 1 - 5 DU./Ac.	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR5-10	MDRMedium Density Residential 5 - 10 DU./Ac.Medium Density Residential 5-10 DU/Ac	50	0.48	0.25	0.16	0.12	MDR
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	P/QP	P/QPPublic/Quasi-PublicPublic/Quasi-Public	50	0.48	0.25	0.16	0.12	PQP
PCGPLU	PF	PFPublic Facility (TPZ Until 2013)Public Facility (TPZ Until 2013)	50	0.48	0.25	0.16	0.12	PQP
PCGPLU	PO	PROFProfessional OfficeProfessional Office	80	0.48	0.25	0.16	0.12	BP
PCGPLU	RR.4-1	RRRural Residential 0.4 - 1 DU/Ac.Rural Residential 0.4 - 1 DU/Ac.	30	0.48	0.25	0.16	0.12	RR
PCGPLU	TC	TCTourist/Resort CommercialTourist/Resort Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	W	Water InfluenceWater Influence	2	0.31	0.16	0.09	0.07	OS



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	AG10	AGAgriculture 10 Ac. Min.Agriculture 10 Ac. Min.	5	0.31	0.16	0.09	0.07	RR
PCGPLU	AG10/SP	AG/SPAgriculture 10 Ac. Min./Specific PlanAgriculture 10 Ac. Min./Specific Plan	5	0.31	0.16	0.09	0.07	RR
PCGPLU	FORREC-MR	FOR/REC - MRForestry/Recreation - Mineral ReserveForestry/Recreation - Mineral Reserve	2	0.31	0.16	0.09	0.07	REC
PCGPLU	GC	GCGeneral CommercialGeneral Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	IN	INDIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	LDR40000-1	LDRLow Density Residential 40,000 sq. ft. - 1 Ac. Min.Low Density Resid 40,000 sq. ft-1 Ac Min	30	0.31	0.16	0.09	0.07	LDR
PCGPLU	LDR40000PO	LDR/POLow Density Residential 40,000 sq. ft. - 1 Ac. Min. & Professional OfficeLow Dens Resid 40000 sf-1 Ac Min/Profess	30	0.31	0.16	0.09	0.07	LDR
PCGPLU	MDR2-4	MDRMedium Density Residential 2 - 4 DU/Ac.Medium Density Residential 2 - 4 DU/Ac.	40	0.31	0.16	0.09	0.07	MDR
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	PF	PFPublic FacilityPublic Facility	50	0.48	0.25	0.16	0.12	PQP
PCGPLU	PO	POPProfessional OfficeProfessional Office	80	0.48	0.25	0.16	0.12	BP
PCGPLU	RD	RDRiparian DrainageRiparian Drainage	2	0.31	0.16	0.09	0.07	OS
PCGPLU	RE2.3-10	RERural Estate 2.3 - 10 Ac. Min.Rural Estate 2.3 - 10 Ac. Min.	15	0.31	0.16	0.09	0.07	RE
PCGPLU	RESREC	RECResorts and RecreationResorts and Recreation	15	0.31	0.16	0.09	0.07	REC
PCGPLU	RR1-2.3	RRRural Residential 1 - 2.3 Ac. Min.Rural Residential 1 - 2.3 Ac. Min.	25	0.31	0.16	0.09	0.07	RR
PCGPLU	TC	TCTourist/Resort CommercialTourist/Resort Commercial	80	0.31	0.16	0.09	0.07	COMM
PCGPLU	W	Water InfluenceWater Influence	2	0.31	0.16	0.09	0.07	OS
PCGPLU	201	See North Tahoe CP Documentat*See North Tahoe CP DocumentationSee North Tahoe CP Documentation	2	0.31	0.16	0.09	0.07	CITY
PCGPLU	AG10-20	AGAgricultural 10 - 20 Ac. Min.Agricultural 10 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	AG



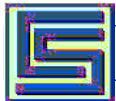
SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	IN	INIIndustrialIndustrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	RE4.6-10	RERural Estate 4.6 - 10 Ac. Min.Rural Estate 4.6 - 10 Ac. Min.	5	0.31	0.16	0.09	0.07	RE
PCGPLU	RR2.3-4.6	RRRural Residential 2.3 - 4.6 Ac. Min.Rural Residential 2.3 - 4.6 Ac. Min.	5	0.31	0.16	0.09	0.07	RR
PCGPLU	AG/TMBR10	AG/TAGriculture/Timberland - 10 Ac. Min.Agriculture/Timberland - 10 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	AG/TMBR20	AG/TAGriculture/Timberland - 20 Ac. Min.Agriculture/Timberland - 20 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	AG/TMBR40	AG/TAGriculture/Timberland - 40 Ac. Min.Agriculture/Timberland - 40 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	AG/TMBR80	AG/TAGriculture/Timberland - 80 Ac. Min.Agriculture/Timberland - 80 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	BP/IN	BP/INBusiness Park/Industrial 10,000 Sq. Ft. - 5 Ac. Min.Business Park/Indust. 10000 sf-5 Ac Min	80	0.48	0.25	0.16	0.12	BP
PCGPLU	GC	GCGeneral CommercialGeneral Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR10-21	HDRHigh Density Residential 3,500 - 10,000 Sq. Ft. (10-21 DU)High Dens Resid 3500-10000 sf 10-21 DU	70	0.48	0.25	0.16	0.12	HDR
PCGPLU	LDR10-1	LDRLow Density Residential 10,000 Sq. Ft. - 1 Ac. Min. (1-5 DU)Low Dens Resid 10000 sf-1 Ac Min 1-5 DU	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR35-10	MDRMedium Density Residential 3,500 - 10,000 Sq. Ft.Medium Density Residential 3500-10000 sf	50	0.48	0.25	0.16	0.12	MDR
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	PF	PFPublic FacilityPublic Facility	50	0.48	0.25	0.16	0.12	PQP
PCGPLU	RESREC160	RECResorts and Recreation 1 - 160 Ac. Min.Resorts and Recreation 1 - 160 Ac. Min.	5	0.31	0.16	0.09	0.07	REC
PCGPLU	RR1-10	RRRural Residential 1 - 10 Ac. Min.Rural Residential 1 - 10 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	TC60-200	TCTourist/Resort Commercial 6,000 - 20,000 Sq. Ft.Tourist/Resort Commercial 6000-20000 sf	80	0.48	0.25	0.16	0.12	COMM



SOURCE	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	W	Water InfluenceWater Influence	2	0.31	0.16	0.09	0.07	OS
PCGPLU	GC	GCGeneral CommercialGeneral Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR4-10	HDRHigh Density Residential 4 - 10 DU/Ac.High Density Residential 4 - 10 DU/Ac.	70	0.48	0.25	0.16	0.12	HDR
PCGPLU	IN	INIIndustrial Industrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	LDR.4-2.3	LDRLow Density Residential 0.4 - 2.3 Ac. Min.Low Density Resid. 0.4 - 2.3 Ac. Min.	25	0.48	0.25	0.16	0.12	LDR
PCGPLU	MDR2-4	MDRMedium Density Residential 2 - 4 DU/Ac.Medium Density Residential 2 - 4 DU/Ac.	40	0.48	0.25	0.16	0.12	MDR
PCGPLU	RE5-20	RRERural Estate 5 - 20 Ac. Min.Rural Estate 5 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	RE
PCGPLU	RR2.3-5	RRRRural Residential 2.3 - 5 Ac. Min.Rural Residential 2.3 - 5 Ac. Min.	15	0.31	0.16	0.09	0.07	RR
PCGPLU	AG20	AGAgricultural 20 Ac. Min.Agricultural 20 Ac. Min.	5	0.31	0.16	0.09	0.07	AG
PCGPLU	AG80	AGAgricultural 80 Ac. Min.Agricultural 80 Ac. Min.	2	0.31	0.16	0.09	0.07	AG
PCGPLU	BUSPARK	BPBusiness ParkBusiness Park	80	0.48	0.25	0.16	0.12	BP
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	IN	INIIndustrial Industrial	80	0.31	0.16	0.09	0.07	IND
PCGPLU	O	Open SpaceOpen Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	PF	PFPublic FacilityPublic Facility	50	0.48	0.25	0.16	0.12	PQP
PCGPLU	PUBFAC/AG	PF/AGPublic Facility/Agricultural 80 Ac. Min.Public Facility/Agricultural 80 Ac. Min.	2	0.31	0.16	0.09	0.07	PQP
PCGPLU	AC	ACAlpine CommercialAlpine Commercial	70	0.48	0.25	0.16	0.12	COMM
PCGPLU	CP	CPConservation PreserveConservation Preserve	2	0.31	0.16	0.09	0.07	OS
PCGPLU	EC	ECEntrance CommercialEntrance Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	FOR/REC	FOR/RECForest RecreationForest Recreation	2	0.31	0.16	0.09	0.07	REC
PCGPLU	HC	HCHeavy CommercialHeavy Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HDR10	HDRHigh Density Residential - Density Factor 10High Density Resid. - Density Factor 10	65	0.48	0.25	0.16	0.12	HDR



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
PCGPLU	HDR20	HDRHigh Density Residential - Density Factor 20High Density Resid. - Density Factor 20	75	0.48	0.25	0.16	0.12	HDR
PCGPLU	HDR25	HDRHigh Density Residential - Density Factor 25High Density Resid. - Density Factor 25	80	0.48	0.25	0.16	0.12	HDR
PCGPLU	LDR4	LDRLow Density Residential - Density Factor 4Low Density Residential-Density Factor 4	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	LDR-DF10	LDRLow Density Residential - Density Factor 10Low Density Resid-Density Factor 10	50	0.48	0.25	0.16	0.12	LDR
PCGPLU	VC	VCVillage CommercialVillage Commercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	001A	See Tahoe City Area GP Docume*See Tahoe City Area GP DocumentationSee Tahoe City Area GP Documentation	2	0.31	0.16	0.09	0.07	CITY
PCGPLU	W	Water InfluenceWater Influence	2	0.31	0.16	0.09	0.07	OS
PCGPLU	LOOMIS	LOOMISTown of LoomisJURISDICTION = LOOMIS	2	0.31	0.16	0.09	0.07	CITY
PCGPLU	AG4.6-20	AGAgricultural 4.6 - 20 Ac. Min.Agricultural 4.6 - 20 Ac. Min.	5	0.31	0.16	0.09	0.07	AG
PCGPLU	COMMERCIAL	COMMCommercialCommercial	80	0.48	0.25	0.16	0.12	COMM
PCGPLU	HS	HSHighway ServiceHighway Service	90	0.48	0.25	0.16	0.12	COMM
PCGPLU	LDR2-4	LDRLow Density Residential 2 - 4 DU./Ac.Low Density Residential 2 - 4 DU./Ac.	40	0.48	0.25	0.16	0.12	LDR
PCGPLU	RE2.3-4.6	RERural Estate 2.3 - 4.6 Ac. Min.Rural Estate 2.3 - 4.6 Ac. Min.	15	0.31	0.16	0.09	0.07	RE
PCGPLU	RLDR.4-2.3	RLDRRural Low Density Residential 0.4 - 2.3 Ac. Min.Rural Low Dens Res .4-2.3 Ac Min	25	0.48	0.25	0.16	0.12	RE
PCGPLU	W	Water InfluenceWater Influence	2	0.31	0.16	0.09	0.07	OS
PCGPLU	WPRI4.6-20	PRIWater Influence/Private Ownership 4.6 - 20 Ac. Min.Water Infl./Private Ownrshp 4.6- 20 Ac Mi	5	0.31	0.16	0.09	0.07	OS
PCGPLU	203	See West Shore GP Documentati*See West Shore GP DocumentationSee West Shore GP Documentation	2	0.31	0.16	0.09	0.07	OS
RVLU	BP	BP	75	0.48	0.25	0.16	0.12	BP
RVLU	BP/CC	BPCC	75	0.48	0.25	0.16	0.12	COMM
RVLU	BP/LI	BPLI	75	0.31	0.16	0.09	0.07	IND



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	CBD	CBD	75	0.48	0.25	0.16	0.12	COMM
RVLU	CBD/FP	CBDFP	75	0.48	0.25	0.16	0.12	COMM
RVLU	CC	CC	75	0.48	0.25	0.16	0.12	COMM
RVLU	CC/BP	CCBP	75	0.48	0.25	0.16	0.12	BP
RVLU	CC/FP	CCFP	75	0.48	0.25	0.16	0.12	COMM
RVLU	CC/RC	CCRC	75	0.48	0.25	0.16	0.12	COMM
RVLU	CC/VC-2.8	CCVC	75	0.48	0.25	0.16	0.12	COMM
RVLU	CC-3.8	CC	75	0.48	0.25	0.16	0.12	COMM
RVLU	HDR 19.4	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR/VC-16.5	HDRVC	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR/VC-19.3	HDRVC	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-12.2	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.0	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.1	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.4	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.6	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.7	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-13.9	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-14	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-14.0	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-14.8	HDR	60	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-15	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-15.0	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-15.1	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-15.8	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-16	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-16.5	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-17.5	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-17.7	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-18.1	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-18.2	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-18.6	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-18.8	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-19	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-19.0	HDR	65	0.48	0.25	0.16	0.12	HDR



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	HDR-19.1	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-19.2	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-19.4	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-19.7	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-20	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-20.0	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-20.1	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-20.4	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-21.1	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-21.5	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-22.0	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-22.3	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-22.5	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-22.9	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-25.0	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-25.3	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-25.6	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-26	HDR	65	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-29.2	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-31.3	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-34	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-41	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-48	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	HDR-54.3 ,CC	HDR	70	0.48	0.25	0.16	0.12	HDR
RVLU	IND	IND	75	0.31	0.16	0.09	0.07	IND
RVLU	IND/FP	INDFP	75	0.31	0.16	0.09	0.07	IND
RVLU	LDR	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR 4.0	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR/NC	LDRNC	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-0.0	LDR	30	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-0.3	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-0.5	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-1	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-1.1	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-1.4	LDR	35	0.48	0.25	0.16	0.12	LDR



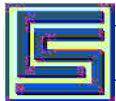
SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	LDR-1.5	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-1.8	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.1	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.2	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.3	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.4	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.5	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.6	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.7	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.75	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.8	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-2.9	LDR	35	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.0	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.1	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.1/FP	LDRFP	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.2	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.3	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.5	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.6	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.7	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.71	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.75	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.8	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-3.9	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.0	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.1	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.2	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.3	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.5	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.6	LDR	40	0.48	0.25	0.16	0.12	LDR



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	LDR-4.7	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.8	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4.9	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-4/FP	LDRFP	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.0	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.1	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.2	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.3	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.5	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.6	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.7	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-5.9	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.0	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.2	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.5	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.7	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-6.9	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LDR-7.4	LDR	40	0.48	0.25	0.16	0.12	LDR
RVLU	LI	LI	75	0.31	0.16	0.09	0.07	IND
RVLU	LI/FP	LI/FP	75	0.31	0.16	0.09	0.07	IND
RVLU	MDR 9.5	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR/VC-8.2	MDRVC	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR/VC-8.3	MDRVC	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR/VC-9.1	MDRVC	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10.0	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10.1	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10.2	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10.5	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-10.7	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-11	MDR	55	0.48	0.25	0.16	0.12	MDR



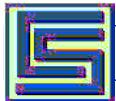
SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	MDR-11.5	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-11.6	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-11.8	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-12	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-12.75	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-12.9	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-13.1	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-13.2	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-13.4	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-13.5	MDR	55	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-15.0	MDR	60	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-6.2	MDR	45	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-6.4	MDR	45	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7	MDR	45	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.1	MDR	45	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.3	MDR	45	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.5	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.6	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.8	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-7.9	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-8	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-8.0	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-8.25	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-8.64	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-8.9	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-9	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-9.23	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	MDR-9.8	MDR	50	0.48	0.25	0.16	0.12	MDR
RVLU	NC	NC	75	0.48	0.25	0.16	0.12	COMM
RVLU	OS	OS	2	0.31	0.16	0.09	0.07	OS
RVLU	OS/FP	OSFP	2	0.31	0.16	0.09	0.07	OS
RVLU	OS/FW	OS	2	0.31	0.16	0.09	0.07	OS
RVLU	OS/PR/FP	OSPR	2	0.31	0.16	0.09	0.07	OS
RVLU	P/QP	P/QP	50	0.48	0.25	0.16	0.12	PQP
RVLU	P/QP/FP	P/QPFP	50	0.48	0.25	0.16	0.12	PQP



SOURCE	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
RVLU	P/QP/VC	P/QPVC	50	0.48	0.25	0.16	0.12	PQP
RVLU	PR	PR	5	0.48	0.25	0.16	0.12	REC
RVLU	PR/FP	PRFP	5	0.48	0.25	0.16	0.12	REC
RVLU	PR/VC	PRVC	5	0.48	0.25	0.16	0.12	REC
RVLU	RC	RC	75	0.48	0.25	0.16	0.12	COMM
RVLU	ROAD	RW	80	0.48	0.25	0.16	0.12	ROAD
RVLU	TS	TS	75	0.48	0.25	0.16	0.12	COMM
RKLU	BP	BP - Professional Office	80	0.48	0.25	0.16	0.12	BP
RKLU	BP/COMM	BP/COMM - Business Professional/Commercial	80	0.48	0.25	0.16	0.12	COMM
RKLU	BP/COMM/LI	BP/COMM/LI - Business Professional/Commercial/Light Industrial	80	0.48	0.25	0.16	0.12	COMM
RKLU	HDR	HDR - High Density Residential	60	0.48	0.25	0.16	0.12	HDR
RKLU	HI	HI - Heavy Industrial	85	0.31	0.16	0.09	0.07	IND
RKLU	LDR	LDR - Low Density Residential	40	0.48	0.25	0.16	0.12	LDR
RKLU	LI	LI - Light Industrial	80	0.31	0.16	0.09	0.07	IND
RKLU	MDR	MDR - Medium Density Residential	50	0.48	0.25	0.16	0.12	MDR
RKLU	MHDR	MHDR - Medium-High Density Residential	60	0.48	0.25	0.16	0.12	HDR
RKLU	PQP	PQP - Public-Quasi Public	50	0.48	0.25	0.16	0.12	PQP
RKLU	RC	RC - Retail Commercial	80	0.48	0.25	0.16	0.12	COMM
RKLU	R-C	R-C - Recreation/Conservation	5	0.31	0.16	0.09	0.07	REC
RKLU	ROAD	RW - Streets/Roads	90	0.48	0.25	0.16	0.12	ROAD
RKLU	RR	RR - Rural Residential	15	0.31	0.16	0.09	0.07	RR
RKLU	SC	SC - Service Commercial	80	0.48	0.25	0.16	0.12	COMM
LOLU	RU-ES-2_3	BP-Industrial Business ParkBP	80	0.48	0.25	0.16	0.12	IND
LOLU	GC-OFFICE	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	BP
LOLU	GENCOMM	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	COMM
LOLU	IND-PARK	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	IND
LOLU	PL-DEVELOP	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	COMM
LOLU	P-QP	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	PQP
LOLU	RMD-2_6	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	COMM
LOLU	RU-ES-2_3	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	COMM
LOLU	SHPPCEN	CG-General CommercialGC	80	0.48	0.25	0.16	0.12	COMM
LOLU	IND-PARK	ILT-Limited Industrial	85	0.31	0.16	0.09	0.07	IND
LOLU	IND-PARK	IL-Light IndustrialIL	80	0.31	0.16	0.09	0.07	IND
LOLU	GC-NHC	CO-Office CommercialO/P	80	0.48	0.25	0.16	0.12	BP



SOURCE	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
LOLU	GC-OFFICE	CO-Office CommercialO/P	80	0.48	0.25	0.16	0.12	BP
LOLU	GENCOMM	CO-Office CommercialO/P	80	0.48	0.25	0.16	0.12	COMM
LOLU	RU-ES-2_3	CO-Office CommercialO/P	80	0.48	0.25	0.16	0.12	RE
LOLU	P-QP	PI-Public/Institutional	50	0.48	0.25	0.16	0.12	PQP
LOLU	RLD-1	PI-Public/Institutional	50	0.48	0.25	0.16	0.12	PQP
LOLU	RU-AG-4_6	PI-Public/Institutional	50	0.48	0.25	0.16	0.12	AG
LOLU	RU-ES-2_3	PI-Public/Institutional	50	0.48	0.25	0.16	0.12	RE
LOLU	RU-AG-4_6	RA-Residential AgriculturalRA	5	0.31	0.16	0.09	0.07	AG
LOLU	GENCOMM	RE-Residential EstateRE	80	0.48	0.25	0.16	0.12	COMM
LOLU	RRE-22_43	RE-Residential EstateRE	15	0.48	0.25	0.16	0.12	RE
LOLU	RU-AG-4_6	RE-Residential EstateRE	5	0.31	0.16	0.09	0.07	RR
LOLU	RU-ES-2_3	RE-Residential EstateRE	15	0.48	0.25	0.16	0.12	RE
LOLU	RHD-10_15	RH-High Density ResidentialRH	60	0.48	0.25	0.16	0.12	HDR
LOLU	RLD-ONE-HALF	RS-10-Single Family ResidentialRL	30	0.48	0.25	0.16	0.12	RE
LOLU	RLD-1	RS-20-Single Family ResidentialRL	35	0.48	0.25	0.16	0.12	LDR
LOLU	RMD-2_6	RS-10-Single Family ResidentialRM	55	0.48	0.25	0.16	0.12	MDR
LOLU	RMD-4	RS-10-Single Family ResidentialRM	40	0.48	0.25	0.16	0.12	MDR
LOLU	RMD-2_6	RS-5-Single Family ResidentialRM	55	0.48	0.25	0.16	0.12	MDR
LOLU	RMD-2_6	RS-7-Single Family ResidentialRM	55	0.48	0.25	0.16	0.12	MDR
LOLU	GC-MH-6_10	CC-Central CommercialRMH	80	0.48	0.25	0.16	0.12	COMM
LOLU	GC-MH-6_10	RM-3.5-Medium Density ResidentialRMH	50	0.48	0.25	0.16	0.12	MDR
LOLU	GC-MH-6_10	RM-5-Medium Density ResidentialRMH	55	0.48	0.25	0.16	0.12	MDR
LOLU	RMD-2_6	RM-5-Medium Density ResidentialRMH	50	0.48	0.25	0.16	0.12	MDR
LOLU	GC-DCORE	RS-5-Single Family ResidentialRMH	50	0.48	0.25	0.16	0.12	LDR
LOLU	GC-MH-6_10	RS-5-Single Family ResidentialRMH	55	0.48	0.25	0.16	0.12	MDR
LOLU	P-QP	RS-5-Single Family ResidentialRMH	50	0.48	0.25	0.16	0.12	PQP
LOLU	RMD-2_6	RM-3.5-Medium Density ResidentialRR	55	0.48	0.25	0.16	0.12	MDR
LOLU	RLD-1	RR-Rural ResidentialRR	15	0.31	0.16	0.09	0.07	LDR
LOLU	RU-ES-2_3	RR-Rural ResidentialRR	15	0.31	0.16	0.09	0.07	RE
LOLU	RMD-2_6	RS-10-Single Family ResidentialRR	55	0.48	0.25	0.16	0.12	MDR
LOLU	R-MD-6	RS-10-Single Family ResidentialRR	50	0.48	0.25	0.16	0.12	MDR
LOLU	RU-ES-2_3	RS-10-Single Family ResidentialRR	40	0.48	0.25	0.16	0.12	RE
LOLU	GC-MH-6_10	RS-5-Single Family ResidentialRR	55	0.48	0.25	0.16	0.12	MDR
LOLU	R-MD-6	RS-5-Single Family ResidentialRR	50	0.48	0.25	0.16	0.12	MDR
LOLU	RMD-2_6	RS-7-Single Family ResidentialRR	55	0.48	0.25	0.16	0.12	MDR



SOURCE LAYER	LOCAL CODE	DESCRIPTION	Imperviousness %	INFILTRATION FACTOR FOR HYD. SOIL TYPE (in/hr)				Minimized Codes
				A	B	C	D	
LOLU	GC-DCORE	CC-Central CommercialTC	80	0.48	0.25	0.16	0.12	COMM
LOLU	GC-MH-6_10	CC-Central CommercialTC	80	0.48	0.25	0.16	0.12	MDR
LOLU	P-QP	CC-Central CommercialTC	80	0.48	0.25	0.16	0.12	PQP
LOLU	GC-MH-6_10	RS-5-Single Family ResidentialTC	50	0.48	0.25	0.16	0.12	COMM
LOLU	RRE-22_43	CT-Tourist/Destination CommercialTD	2	0.31	0.16	0.09	0.07	COMM
LOLU	RU-AG-4_6	CT-Tourist/Destination CommercialTD	2	0.31	0.16	0.09	0.07	AG
LOLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
RKLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
0	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
RVLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
SAGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
SCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
RKLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
PCGPLU	OS	Open Space	2	0.31	0.16	0.09	0.07	OS
0	OS	Open Space	2	0.31	0.16	0.09	0.07	OS

