Appendix G:

Sewage System Needs Survey – Glenside Road Area

Glenside Road Area West Bradford Township, Chester County Sewage Needs Survey

50-2-50?

A survey is being conducted on behalf of West Bradford Township to determine if there are any sewage problems and/or any related water supply concerns in this area. Survey results will not be used for enforcement actions.

Date 12/8/07 Weather Cloudy, 50F	surveyor Chric Whitman
Name Dot Cup bell Address Phone <u>GID-269-5743</u> Number Residents	1051 3 Owner Renter X (rents from
Lot Size <u>.86</u> Number Dwelling Units <u>/</u> Residential Use (Y/N) <u>Y</u> Commercial Use	Number Sewage Systems / daughter Both Charles Han it a
Water Source (check) Public Well Spring Well Type (check) Dug Drilled Depth Distance between Well and Drain Fieldfeet Water Treated (Y/N) How Treated Water Tested (Y/N) Y When ? Last yr Co	Cistern Other feet Well Cased (Y/N) UAKnown - buried Well Uphill (check) or Downhill ontamination (Y/N) What ?_ N
Sewage System on Lot: (Check all that Apply) Septic Tank In-ground Bed Cesspool In-ground Trenc Old Well Elevated Sand M Holding Tank Seepage Pit Privy Bore Hole Other	Community Sewer Storm Sewer Ound Pipe to Ditch Pipe to Stream Pipe to Surface
Laundry and/or Sink Water Disposal: (Check all that Septic Tank In-ground Bed Cesspool In-ground Trencl Old Well Elevated Sand M Holding Tank Seepage Pit Privy Bore Hole Other	t Apply) Community Sewer hStorm Sewer loundPipe to Ditch Pipe to Stream Pipe to Surface
Age of Sewage System Strate Permitted ? (Y/N) N When ?
Observations about Sewage System: (Check all that Green Lush Grass Water Ponding or Surfacing Sluggish Drains Odors	t Apply) Wetness or Spongy Areas System Overflow Waste Water Backing into Building Other
Are above conditions seasonal or year-round Last time observed? Has system been pumped out? (Y/N) Y How If pumped, was it inspected for cracks? (Y/N) Tank repaired/replaced (Y/N) Line repaired repla Other observations:	Xif tank not pumped voften? every 6 months Last time <u>abact 6 months</u> ago. What part? uced Drain Field repaired/replaced
Do I have your permission to confirm this information	by looking at the lot? (Y/N)
(Resident's Signature)	(Date)

(Resident's Name, Please Print)

50-2-74.1

Glenside Road Area West Bradford Township, Chester County Sewage Needs Survey

A survey is being conducted on behalf of West Bradford Township to determine if there are any sewage problems and/or any related water supply concerns in this area. Survey results will not be used for enforcement actions.

Date 12/8/07 Weather Cloudy, 50'F Surveyor Chris Whitman	
Name Christing Simpson * Address 990 Glensite	
Phone $6n-518-5707$ Number Residents 3 Owner \checkmark Renter	-,
Lot Size <u>Number Dwelling Units</u> Number Sewage Systems <u>I</u> Residential Use (Y/N) <u>Commercial Use</u> Both	
Water Source (check) Public Well * Spring Cistern Other	
Well Type (check) Dug Drilled Depth feet Well Cased (Y/N) Y Distance between Well and Drain Field 50 feet. +/- Well Uphill (check) or Downhill Water Treated (Y/N) How Treated	
Water Tested (Y/N) <u>Y</u> When ? Contamination (Y/N) What ? N/A	red i
Sewage System on Lot: (Check all that Apply) Septic Tank In-ground Bed Community Sewer Cesspool In-ground Trench Storm Sewer Old Well Elevated Sand Mound Pipe to Ditch Holding Tank Seepage Pit Pipe to Stream Privy Bore Hole Pipe to Surface	ell Gleoside
Laundry and/or Sink Water Disposal: (Check all that Apply) Since System Septic Tank In-ground Bed Community Sewer Cesspool In-ground Trench Storm Sewer Old Well Elevated Sand Mound Pipe to Ditch ¥ Holding Tank Seepage Pit Pipe to Stream Privy Bore Hole Pipe to Surface	
Age of Sewage System 3º Yrs .+/- Permitted ? (Y/N) Y When ?	
Observations about Sewage System: (Check all that Apply) Green Lush Grass Wetness or Spongy Areas Water Ponding or Surfacing System Overflow Sluggish Drains Waste Water Backing into Building Odors Other	
Are above conditions seasonal or year-round? Last time observed? Has system been pumped out? (Y/N) How often? [-2 x month has system been pumped out? (Y/N) How often? [-2 x month Last time carple wks If pumped, was it inspected for cracks? (Y/N) What part? Tank repaired/replaced (Y/N) Line repaired replaced Drain Field repaired/replaced Other observations:	49 ⁰
Do I have your permission to confirm this information by looking at the lot? (Y/N) (Resident's Signature)	from
(Resident's Name, Please Print) Stream; appears to avertlan,	to
creek; no area avail. to	L SUS .
Adela Simpson prop. Oviner-like There replacent steep sloves	behind mit

Glenside Road Area West Bradford Township, Chester County Sewage Needs Survey

50-2-50.1

A survey is being conducted on behalf of West Bradford Township to determine if there are any sewage problems and/or any related water supply concerns in this area. Survey results will not be used for enforcement actions.

	Date 12/8/07 Weather Clay du SO'F Surveyor Charlie IN
	Name John Campbell * Address 1071 Glangida Rd.
	Phone 610-873-4889 Number Residents 2 Owner Renter X [Jents Trom
	Lot Size <u>.2</u> Number Dwelling Units Number Sewage Systems / Sister
	Water Source (check) Public Well Spring Cistern Other
?	Well Type (check) Dug Drilled Depth feet Well Cased (Y/N) (famil/on)
	Water Treated (Y/N) Y How Treated put black in
	Water Tested (Y/N) Y When ? 5-6 Months Contamination (Y/N) What ? Y - den't from
	Sewage System on Lot: (Check all that Apply)
	Septic TankIn-ground BedCommunity Sewer
	CesspoolIn-ground TrenchStorm Sewer
	Old Well Elevated Sand Mound Pipe to Ditch
	Privy Bore Hole Pipe to Surface
	Other although holding tank indicated by respondent, does not
	Laundry and/or Sink Water Disposal: (Check all that Apply) 7
	Septic Tank In-ground Bed Community Sewer
	Cesspool In-ground Trench Storm Sewer
	Old WellElevated Sand MoundPipe to Ditch
	Holding Tank Seepage Pit Pipe to Stream
	OtherBore HolePipe to Surface of Survey
	Age of Sewage System 122,15 + Dormitted 2 (VIN) N When 2 Indications
	/ ge of dewage dystem <u>/ / / / / / / / / / / / / / / / / / /</u>
	Observations about Sewage System: (Check all that Apply)
	Water Ponding or Surfacing System Overflow
	Sluggish Drains Waste Water Backing into Building
	OdorsOther <u>DDD lens</u>
	Are above conditions seasonal or year-round?
	Last time observed?
	Has system been pumped out? (Y/N) Y How often? ** Last time 5 yrs ago
	If pumped, was it inspected for cracks? (Y/N) What part?
	Tank repaired/replaced (Y/N) Line repaired replaced Drain Field repaired/replaced Other observations:
	A looking at the lot? (Y/N)
	Carmen Condell 12/8/67
	(Resident's Signature) (Date)
	(Resident's Name, Please Print)
	inst moved in a cauple of months ago
7	

* * puts additive in tank monthy #

					50-2-	-69 .
		Glenside I	Road Area		1.1.	will
	West	Bradford Town	ship, Chest	er County 🦷 🥻	esident a	way with
		Sewage Ne	eds Survey	' try	to complet	te survey
A surve	v is being conducted or	behalf of West B	radford Towns	shin to determine if	there are any	va phone;
sewage be used	problems and/or any rel for enforcement action	elated water suppl	y concerns in	this area. Survey	results will not	portable
	2/0/07	1.1 cher	,	she what	to	ilet on
Date _	Weather C	aray, SUF	_ Surveyor <u>_</u>	Aris Whill	man	- popertu:
Name	lames Sweeney	, ' Addre	ss 1000	Glensike	Rd.	Pige JL
Phone_	1	_ Number Reside	nts	Owner	Renter	- appears To
	78 acres	.	,	_		1. on allail
LOI SIZE Residen	Vial Use (V/N)	r Dwelling Units	Numb	er Sewage System	S	Be no aren
i tesideri	liar 03e (1/14)			Both	<u></u>	area tor
Water S	ource (check) Public _	_ Well 🗹 Spring	Cistern	Other		co la conport
Well Typ	be (check) Dug Dri	lled Depth	feet Well	Cased (Y/N)		replacement
Distance Water T	Detween Well and Dra reated (Y/N) How ²	IIN Field fo	eet. We	ell Uphill (check)	or Downhill	system due
Water T	ested (Y/N) Wher	1?	Contaminatio	n (Y/N) What ?		- la sall
			2			- to we'll
Sewage	System on Lot: (Chec	k all that Apply)	•		locat	ton; steep
	Septic Tank	In-ground Be	d	Community S	Sewer	- helpind
	Cesspool Old Well	Elevated San	encn d Mound	Storm Sewer	SIOPE	S Levina
	Holding Tank	Seepage Pit		Pipe to Strea	m H	
	Privy	Bore Hole		Pipe to Surfa	ce	
	Other	· · · · · ·				-
Laundry	and/or Sink Water Disr	osal: (Check all	that Apply) 2)		
Ladridiy	Septic Tank	In-around Be	d	Community S	ewer	
	Cesspool	In-ground Tre	ench	Storm Sewer		
	Old Well	Elevated San	d Mound	Pipe to Ditch		
-	Holding Tank	Seepage Pit		Pipe to Stream	m	
	Other	Bore Hole		Pipe to Surfac	ce	
້						
Age of S	ewage System	Permitted	? (Y/N)	When ?		_
Oheenva	tions about Sewage Su	stom: (Chook all	that Analy			4-
Observa	Green Lush Grass		Wetness or	Spongy Areas	no com	oonents
-	Water Ponding or Su	Irfacing -	System Ov	erflow	visibl	e
-	Sluggish Drains		Waste Wat	er Backing into Bui	Iding	-
-	Odors	-	Other			-
Are abov	e conditions seasonal	or vear-round	2			
Last time	e observed?		:			
/ Has syst	em been pumped out?	(Y/N) ł	How often?	Last time	9	
 If pumpe 	d, was it inspected for a	racks? (Y/N)	What part	?		-
Tank rep Other ob	aired/replaced (Y/N)	_ Line repaired re	eplaced C	Drain Field repaired	/replaced	
Other ob						
Do I have	e your permission to co	nfirm this informat	ion by looking	at the lot? (Y/N)		
			-	· · · ·		
(Residen	it's Signature)			(Date)		
((Duto)		
	17- Maria					
(Residen	t's Name, Please Print)					

Appendix H:

Chester County Health Department Licensed Sewage Haulers

Chester County Health Department ENVIRONMENTAL SERVICES

Date last revised: 01-05-11

NOTE: Data is subject to change. Please contact CCHD at 610-344-6488 if you have any questions

Liquid Waste Pumpers

Business Name	Address	City,State Zip	Phone
A HONEYDIPPER SEPTIC / J. BREHM INC.	P.O. BOX 427	DOUGLASSVILLE, PA 19518	(610)327-1699
A-1 SANITATION SERVICE INC	1009 RIVER ROAD	NEW CASTLE, DE 19720	(302)322-1074
AAA SEPTIC SERVICE & EX CO	2085 VALLEY RD	PARKESBURG, PA 19365	(610)857-1200
ACE CESSPOOL CO LLC	335 W KNOWLTON RD	MEDIA, PA 19063	(610)494-5095
ACE DISPOSAL	1133 VALLEY HILL RD	MALVERN, PA 19355	(610)644-3685
ALL-AMERICAN SEPTIC SERVICE	BOX 552	DOUGLASSVILLE, PA 19518	(610)582-2500
AQUA WASTEWATER	762 W. LANCASTER AVE.	BRYN MAWR, PA 19010	(610)645-4282
ARROW SANITARY SERVICE	1772 PULASKI HW	BEAR, DE 19701	(302)328-4797
ASTON MAUGER CONTRACTING, INC	3 WOODSIDE LANE	BOYERTOWN, PA 19512	(610)473-2078
BAILEY'S SEPTIC SERVICE INC.	4224 POTTSVILLE PK	READING, PA 19605	(610)929-1500
BILL SWEIGART WASTEWATER, INC.	506B WEIR RD	ASTON, PA 19014	(610)485-3272
BOLLINGER SEPTIC SERVICES	3811 HAY CREEK RD	BIRDSBORO, PA 19508	(610)286-7306
BRANDYWINE SEPTIC SERV INC	1160 STATE ROAD	LINCOLN UNIVERSITY, PA 193	352(610)869-0443
C F HECKMAN & SON	2668 LEISCZS BRIDGE RD.	LEESPORT, PA 19533	(610)916-1487
C M KRISTMAN WASTE REMOVAL	1099 CANNERY RD	COATESVILLE, PA 19320	(610)347-0688
CIALINI SEPTIC SERVICES	1439 WILLIAMSBURG DRIVE	WEST CHESTER, PA 19382	(610)793-1149
COOK'S DISPOSAL SERVICE, INC.	1851 POTTSTOWN PK	POTTSTOWN, PA 19465	(610)469-1022
DAVID P. KRISTMAN EXCAVATING, INC.	227 HILL RD	HONEY BROOK, PA 19344	(610)273-9388
DOUBLE P SANITATION SERVICES	550 OLD WILMINGTON ROAD	COATESVILLE, PA 19320	(610)857-4488
EARTHCARE AT MCGOVERN ENVIRONMENTAL	223 FELLOWSHIP RD. P. O. BOX	756EAGLE, PA 19480	(610)458-9333
EDWARD ARMSTRONG & SONS	205 GREENFIELD RD	LANCASTER, PA 17605	(717)393-2770
ELDREDGE SEPTIC SERVICE	322 TURNER LA BLDG 09	WEST CHESTER, PA 19380	(610)918-8600
FINS ENVIRONMENTAL SERVICE LLC DBA HONEY WAGON	691 TRUCE RD	QUARRYVILLE, PA 17566	(717)284-5228
FRANK SEARS SANITATION	5249 DENLINGER ROAD	GAP, PA 17527	(717)442-8609
GENE'S SEPTIC SERVICE	707 BRANDYWINE RD	DOWNINGTOWN, PA 19335	(610)696-7591
GRAY BROTHERS INC	1696 E LANCASTER AV	PAOLI, PA 19301	(610)644-2800
HICKMAN SANITATION SERVICE	352 SNYDER AV P O BOX 3040	WEST CHESTER, PA 19381	(610)696-3060
HOOPER'S DISPOSAL	265 LIPPITT RD	HONEY BROOK, PA 19344	(610)942-3222

Licensing of Liquid Waste Haulers, Well Contractors, Geothermal Contractors or Pump Installers does not imply endorsement of any company or individual. Contractors or companies licensed by Chester County Health Department have been inspected or been proven to be proficient in their particular area of business and, therefore, are governed by the conditions specified under Chester County Health Department Rules and Regulations, Chapter 500.

Chester County Health Department ENVIRONMENTAL SERVICES

Date last revised: 01-05-11

NOTE: Data is subject to change. Please contact CCHD at 610-344-6488 if you have any questions

Business Name	Address	City,State Zip	Phone
HORBLINSKI CESSPOOLS & SEPTIC	106 RUTHLAND AV	COATESVILLE, PA 19320	(610)383-0404
HURRICANE DRAIN, INC	37 REEL ST.	COATESVILLE, PA 19320	(610)857-5033
INK'S DISPOSAL SERVICE	564 N. MANOR RD	ELVERSON, PA 19520	(610)286-5488
J GALLAGHER SEPTIC & WASTE WATER CONTROL	1606 EMBREEVILLE RD	COATESVILLE, PA 19320	(610)466-7500
J A PRETTYMAN EXCAVATING	P O BOX 26	OXFORD, PA 19363	(610)932-5270
J ROBERT PIERSON	195 LAUREL HEIGHTS RD	LANDENBERG, PA 19350	(610)274-8252
JOHN B SELDOMRIDGE JR INC	1880 BEAVER DAM RD	HONEY BROOK, PA 19344	(610)273-3316
K V EXCAVATING	912 CHERRY TREE RD	ASTON, PA 19014	(610)364-0911
KELLY PHILLIPS SEPTIC SERVICES	139 PARKESBURG RD	COATESVILLE, PA 19320	(610)857-9263
KULP & SONS INC	210 S CEDAR ST	SPRING CITY, PA 19475	(610)948-4593
LANCO SEPTIC SERVICE	P O BOX 27	PEACH BOTTOM, PA 17563	(717)786-3616
LEVENGOOD SEPTIC SERVICE	1058 RIVERSIDE DR	POTTSTOWN, PA 19464	(610)705-9209
LINCOLN E COCKERHAM	420 LANCASTER AV	FRAZER, PA 19355	(610)644-2882
LONNIE STOLTZFUS SEPTIC SERVICE	2570 CONESTOGA CREEK RD	Morgantown, pa 19543	(717)951-1534
MANNY'S SEPTIC	P O BOX 72831	THORNDALE, PA 19372	(610)755-2639
ONSITE MANAGEMENT, INC.	BOX 2313	WEST CHESTER, PA 19380	(610)430-3100
PETERS SEPTIC	117 KEYS RD	PEACH BOTTOM, PA 17563	(717)786-1454
POTTY QUEEN	3115 SANATOGA RD	POTTSTOWN, PA 19464	(610)705-5555
PREDOC, INC	14 CHRISEVYN LANE	PHOENIXVILLE, PA 19460	(610)935-8590
R & K SEPTIC & SERVICES INC	1657 GLENSIDE RD	WEST CHESTER, PA 19380	(610)486-6915
RELIABLE SEPTIC	501 MCKINNEY FARM LN	WEST GROVE, PA 19390	(610)869-4932
RUSSELL REID WASTE HLG. & DISP.	200 SMITH ST BOX 130	KEASBEY, NJ 08832	(732)225-2238
SEPTIC SOLUTIONS	12 WALNUT DRIVE	KIRKWOOD, PA 17536	(717)587-1169
SHARP SEPTIC	154 RED WELL RD	NEW HOLLAND, PA 17557	(717)951-8473
SNYDER & MYLIN SEPTIC SERVICES LLC	1130 LANCASTER PK	DRUMORE, PA 17518	(717)284-0303
TAYLOR SEPTIC SERVICE	PO BOX 602	RISING SUN, MD 21911	(410)658-4090
TRI-STATE LANDSCAPE & SUPPLY INC.	P.O. BOX 25	LANDENBERG, PA 19350	(610)274-8008
US ENVIRONMENTAL INC	409 BOOT RD	DOWNINGTOWN, PA 19335	(610)518-5800

Licensing of Liquid Waste Haulers, Well Contractors, Geothermal Contractors or Pump Installers does not imply endorsement of any company or individual. Contractors or companies licensed by Chester County Health Department have been inspected or been proven to be proficient in their particular area of business and, therefore, are governed by the conditions specified under Chester County Health Department Rules and Regulations, Chapter 500.

Chester County Health Department ENVIRONMENTAL SERVICES

Date last revised: 01-05-11

NOTE: Data is subject to change. Please contact CCHD at 610-344-6488 if you have any questions

Business Name	Address	City,State Zip	Phone
WASTE OIL RECYCLERS, INC	PO BOX 257	MODENA, PA 19358	(610)357-0375
WEAVER & STURGILL SANITATION	5589 STRASBURG RD	ATGLEN, PA 19310	(610)593-2608
WILLIAM DAVIS & SONS	341 SNYDER HOLLOW ROAD	NEW PROVIDENCE, PA 17560	(717)587-0800
WILLIAM P. MCGOVERN INC	1144 W BALTIMORE PK	KENNETT SQUARE, PA 19348	(610)444-5797

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Appendix I:

Ultimate Needs Build-Out Analysis - UIP



Appendix J:

Phase I-II Allocations - Romansville

ROMANSVILLE AREA EXISTING AND FUTURE WASTEWATER FLOWS							
	PHASE I						
TAX PARCEL	ACRES	ZONING	EXISTING EDU'S	FUTURE EDU'S	NOTES		
50-4-59.5	1.64	R-2, village overlay	1	1			
50-4-68.1	0.83	R-4, village overlay	1	1			
50-4-68.2	0.69	R-4, village overlay	1	1			
50-4-69	0.87	R-4, village overlay	1	1			
50-4-70.1	2.70	commercial, village overlay	2**	2			
50-4-71-E	3.86	commercial, village overlay	1	1	Romansville Friends Meeting		
50-4-80	0.58	commercial, village overlay	1	1			
50-4-81	0.16	commercial, village overlay	1	1			
50-4-81.1	0.91	commercial, village overlay	1	1			
50-4-82	0.16	commercial, village overlay	1	1			
50-4-84	0.68	commercial, village overlay	3	3	Deli plus 2 apartments		
50-4-85	0.85	commercial, village overlay	1	1			
50-5-122	2.32	R-2, village overlay	1	1			
50-5-122.28	3.66	R-2, village overlay	2**	2			
50-5-124	1.23	R-2, village overlay	1	1			
50-5-125-Е	4.70	R-1, village overlay	3*	3	Church, considering building addition**		
50-5-165	0.49	R-1, village overlay	1	1			
50-5-166	0.51	R-1, village overlay	1	1			
50-5-167	0.53	R-1, village overlay	1	1			
50-5-168	0.44	R-2, village overlay	1	1			
50-5-168.1	0.54	R-2, village overlay	VACANT PARCEL	1			
50-5-169	0.89	R-2, village overlay	2**	2			
50-5-170	1.34	R-2, village overlay	1	1			
50-5-170.1	0.83	R-2, village overlay	1	1			
50-5-170.1A	1.04	R-2, village overlay	1	1			
50-5-170.2	0.89	R-2, village overlay	1	1			
50-5-171	0.34	R-2, village overlay	1	1			
50-5-172	0.20	R-2, village overlay	VACANT PARCEL	1			
50-5-173	0.59	R-2, village overlay	1	1			
50-5-174	0.42	R-2, village overlay	1	1			
50-5-175	0.35	R-2, village overlay	1	1			
50-5-176	0.42	R-2, village overlay	1	1			
50-5-177	0.34	R-2, village overlay	1	1			
50-5-178	0.63	R-2, village overlay	1	1			

50-5-178.1	0.68	R-2, village overlay	1	1	
50-8-2.2	4.98	R-1, village overlay	1	1	
		SUBTOTAL	41	43	
		PHASE II			
TAX PARCEL	ACRES		EXISTING EDU'S	FUTURE EDU'S	
50-4-51.13	1.19	R-2, village overlay	1	1	
50-4-57	1.22	R-2, village overlay	1	1	
50-4-57.1	1.16	R-2, village overlay	1	1	
50-4-57.2	1.01	R-2, village overlay	1	1	
50-4-57.3	2.36	R-2, village overlay	1	1	
50-4-57.4	0.91	R-2, village overlay	1	1	
50-4-58	0.85	R-2, village overlay	1	1	
50-4-59.2	1.67	R-2, village overlay	1	1	
50-4-59.3	1.17	R-2, village overlay	1	1	
50-4-59.4	1.03	R-2, village overlay	1	1	
50-4-72	0.50	R-2, village overlay	1	1	
50-4-73	0.50	R-2, village overlay	1	1	
50-4-74	0.53	R-2, village overlay	1	1	
50-4-74.1	0.50	R-2, village overlay	1	1	
50-4-75	1.53	R-2, village overlay	1	1	
50-4-76	0.72	R-2, village overlay	1	1	
50-4-77	0.59	R-2, village overlay	1	1	
50-4-78	0.22	R-2, village overlay	1	1	
50-4-79	0.39	R-2, village overlay	1	1	
50-4-86.2	1.05	R-1	1	1	
50-4-87	7.84	R-1	1	1	
50-4-87.1	2.42	R-1	1	1	
50-4-87.2	2.41	R-1	1	2	
50-4-87.3	1.95	R-1	1	1	
50-4-91.10D	1.15	R-1	1	1	
50-4-91.10E	0.91	R-1	1	1	
50-4-91.10F	1.05	R-1	1	1	
50-4-91.10G	1.02	R-1	1	1	
50-4-91.10H	0.97	R-1	1	1	
50-4-91.10J	1.69	R-1	2**	1	
50-4-91.10K	3.41	R-1	1	1	
50-4-91.10L	3.02	R-1	1	1	

50-4-91.10M	1.35	R-1	1	1	
50-4-91.10N	1.74	R-1	1	1	
50-4-91.10P	1.04	R-1	1	1	
50-4-91.10Q	1.64	R-1	1	1	
50-4-91.10R	1.19	R-1	1	1	
50-4-91.2	0.59	R-1, village overlay	1	1	
50-4-91.8	1.06	R-1, village overlay	1	1	
50-4Q-28	8.13	R-1	1	1	
50-4Q-28.1	1.49	R-1	1	1	
50-4Q-28.2	0.43	R-1	VACANT PARCEL	1	
50-4Q-29	1.40	R-1	1	1	
50-4Q-30	0.80	R-1	1	1	
50-4Q-31	0.79	R-1	1	1	
50-4Q-32	0.82	R-1	1	1	
50-4Q-33	1.02	R-1	1	1	
50-4Q-34	0.75	R-1	1	1	
50-4Q-35	0.60	R-1	1	1	
50-4Q-36	0.57	R-1	1	1	
50-4Q-37	0.57	R-1	1	1	
50-4Q-38	0.58	R-1	1	1	
50-4Q-39	0.66	R-1	1	1	
50-4Q-40	0.80	R-1	1	1	
50-4Q-41	0.56	R-1	1	1	
50-4Q-42	0.51	R-1	1	1	
50-4Q-43	0.46	R-1	1	1	
50-4Q-44	0.46	R-1	1	1	
50-4Q-45	0.46	R-1	1	1	
50-4Q-46	0.53	R-1	1	1	
50-4Q-47	0.48	R-1	1	1	
50-4Q-48	0.48	R-1	1	1	
50-4Q-49	0.55	R-1	1	1	
50-4Q-50	0.69	R-1	1	1	
50-4Q-51	0.54	R-1	1	1	
50-4Q-52	0.49	R-1	1	1	
50-4Q-53	0.50	R-1	1	1	
50-4Q-54	0.48	R-1	1	1	
50-4Q-55	0.45	R-1	1	1	

50-4Q-56	0.46	R-1	1	1	
50-4Q-57	0.65	R-1	1	1	
50-4Q-58	0.51	R-1	1	1	
50-4Q-59	0.53	R-1	1	1	
50-4Q-60	0.59	R-1	1	1	
50-4Q-61	1.32	R-1	VACANT PARCEL	1	
50-4Q-62	0.65	R-1	1	1	
50-4Q-63	0.48	R-1	1	1	
50-4Q-64	0.51	R-1	1	1	
50-4Q-65	0.64	R-1	1	1	
50-4Q-66	0.72	R-1	1	1	
50-4Q-67	0.49	R-1	1	1	
50-4Q-68	0.65	R-1	1	1	
50-4Q-69	0.58	R-1	1	1	
50-4Q-70	0.46	R-1	1	1	
50-4Q-71	0.46	R-1	1	1	
50-4Q-72	0.46	R-1	1	1	
50-4Q-73	0.46	R-1	1	1	
50-4Q-74	0.46	R-1	1	1	
50-4Q-75	0.46	R-1	1	1	
50-4Q-76	0.46	R-1	1	1	
50-4Q-77	0.48	R-1	1	1	
50-4Q-78	0.50	R-1	1	1	
50-4Q-79	0.66	R-1	1	1	
50-4Q-80	1.05	R-1	1	1	
50-4Q-81	1.18	R-1	1	1	
50-4Q-82	1.00	R-1	1	1	
50-4Q-83	0.98	R-1	1	1	
50-4Q-84	1.11	R-1	1	1	
50-5-122.1	1.20	R-1, flood hazard overlay	1	1	
50-5-122.10	1.02	R-1	1	1	
50-5-122.11	0.78	R-1	1	1	
50-5-122.15	6.17	R-1, flood hazard overlay	1	2	excluding flood hazard overlay
50-5-122.16	1.55	R-1	1	1	
50-5-122.17	0.96	R-1	1	1	
50-5-122.18	1.03	R-1	1	1	
50-5-122.19	0.94	R-1	1	1	

50-5-122.20	1.03	R-1	1	1	
50-5-122.21	1.04	R-1	1	1	
50-5-122.22	1.13	R-1	1	1	
50-5-122.23	1.96	R-1	1	1	
50-5-122.24	1.25	R-1	1	1	
50-5-122.25	1.12	R-1	1	1	
50-5-122.26	1.06	R-1	1	1	
50-5-122.27	1.14	R-2, village overlay	1	1	
50-5-122.3	1.08	R-1	1	1	
50-5-122.4	1.22	R-1	1	1	
50-5-122.5	1.18	R-1	1	1	
50-5-122.6	0.99	R-1	1	1	
50-5-122.7	0.94	R-1	1	1	
50-5-122.8	0.89	R-1	1	1	
50-5-122.9	1.12	R-1	1	1	
50-5-124.1	2.17	R-1	2	2	single family dwelling and mobile home
50-5-124.2	1.33	R-1	1	1	
50-5-124.2A	0.95	R-1	1	1	
50-5-124.2B	1.07	R-1	1	1	
50-5-124.2C	0.87	R-1	1	1	
50-5-124.2D	1.24	R-1	1	1	
50-5-124.2E	1.31	R-1	1	1	
50-5-124.2F	1.16	R-1	1	1	
50-5-124.2G	1.01	R-1	1	1	
50-5-124.2H	0.86	R-1	1	1	
50-5-124.2J	1.12	R-1	1	1	
50-5-124.2K	1.02	R-1	1	1	
50-5-124.2L	1.08	R-1	1	1	
50-5-124.2M	0.85	R-1	1	1	
50-5-124.2N	1.66	R-1	1	1	
50-5-127	0.85	R-1, village overlay	1	1	
50-5-128	0.75	R-1, village overlay	VACANT PARCEL	1	
50-5-128.1	0.70	R-1, village overlay	1	1	
50-5-128.2	0.71	R-1, village overlay	1	1	
50-5-129	28.65	industrial	1	10	
50-5-129.1	1.99	R-1, village overlay	1	1	
50-5-130	1.21	R-1, village overlay	1	1	
		· · · · · ·			

50-5-130.1	1.13	R-1, village overlay	1	1	
50-5-130.2	1.13	R-1, village overlay	1	1	
50-5-131	1.51	R-1	1	1	
50-5-131.2	0.99	R-1	1	1	
50-5-132	0.34	R-1	VACANT PARCEL	1	
50-5-133	1.13	R-1	1	1	
50-5-133.1	1.14	R-1	1	1	
50-5-179	1.39	R-1, village overlay	1	1	
50-5-180	1.68	R-1, village overlay	1	1	
50-5-181	1.05	R-1, village overlay	1	1	
50-5-181.1	0.92	R-1, village overlay	1	1	
50-5-182.1	1.23	R-1	1	1	
50-5-182.2	1.03	R-1	1	1	
50-5-182.3	1.48	R-1	1	1	
50-5-182.4	1.75	R-1	1	1	
50-5-182.5	1.00	R-1	1	1	
50-5-182.6	1.05	R-1	1	1	
50-5-183	1.42	R-1, village overlay	1	1	
50-5-183.1	0.97	R-1, village overlay	1	1	
50-5-183.2	0.95	R-1, village overlay	1	1	
50-5-183.3	0.95	R-1, village overlay	1	1	
50-5-183.4	0.78	R-1, village overlay	1	1	
50-5-183.5	0.96	R-1	1	1	
50-5-184	3.39	R-1	1	2	
50-5-184.1	1.37	R-1	1	1	
50-8-3	0.77	R-1	1	1	
		SUBTOTAL	165	182	
TOTAL FOR PHASE I AND II		206	225		
* - 100 seats x 3 gal	/seat x 2 servi	ces = 600 gpd / 225 = 2.66 EDU	Js		
** - per survey resp	ondent				

Appendix K:

PSATS On-Lot Treatment Matrix

Onlot System Component Matrix

Absorption Area	Component Classification and Secondary / Advanced Treatment Options	Slope	Minimum Suitable Soil Depth to a Seasonal High-Water Table Limiting Zone	Minimum Suitable Soil Depth to a Rock Limiting Zone	Percolation Rate
Seepage Bed	Conventional Alternate 1) Peat filter 2) Free-access gravity sand (media) filter 3) CO-OP RFS III recirculating filter with UV light	0-8%	60 inches ⁽¹⁾	60 inches ⁽¹⁾	6-90 minutes per inch (If perc reading is 6-60 minutes per inch, up to 40 percent reduction in absorption area may be taken with peat filter only.)
Standard Trenches	Conventional Alternate 1) Peat filter 2) Free-access gravity sand (media) filter 3) CO-OP RFS III recirculating filter with UV light	0-25%	60 inches ⁽¹⁾	60 inches ⁽¹⁾	6-90 minutes per inch (If perc reading is 6-60 minutes per inch, up to 40 percent reduction in absorption area may be taken with peat filter only.)
Elevated Sand Mound Bed	Conventional Alternate 1) Peat filter 2) Free-access gravity sand (media) filter 3) CO-OP RFS III recirculating filter with UV light	0-12%	20 inches ⁽¹⁾	20 inches ⁽¹⁾	3-180 minutes per inch (If perc reading is 3-60 minutes per inch, up to 40 percent reduction in absorption area may be taken with peat filter only.)

Elevated Sand Mound Trenches	Conventional Alternate 1) Peat filter 2) Free-access gravity sand (media) filter 3) CO-OP RFS III recirculating filter with UV light	0-12%	20 inches ⁽¹⁾	20 inches ⁽¹⁾	3-180 minutes per inch (If perc reading is 3-60 minutes per inch, up to 40 percent reduction in absorption area may be taken with peat filter only.)
Subsurface Sand (Media) Filter Bed	Conventional	0-8%	72 inches ⁽¹⁾	72 inches ⁽¹⁾	>90 minutes per inch at 12 to 36 inches and 3-90 minutes per inch at a depth between 36 and 60 inches
Subsurface Sand (Media) Filter Trenches	Conventional	0-25%	72 inches ⁽¹⁾	72 inches ⁽¹⁾	>90 minutes per inch at 12 to 36 inches and 3-90 minutes per inch at a depth between 36 and 60 inches
IRSIS	Conventional Alternate 1) Free-access gravity sand (media) filter 2) Peat filter 3) CO-OP RFS III recirculating filter with UV light	0-4% Agriculture 0-12% Grassed 0-25% Forested	10 inches	16 inches	Test not required
At-Grade Absorption Area	Alternate None needed Free access gravity sand (media) filter Peat filter 	0-12%	1) 48 inches ⁽¹⁾ 2-5) 20 inches	1) 48 inches ⁽¹⁾ 2-5) 20 inches	 3-180 minutes per inch 3-180 minutes per inch 3-180 minutes per inch (Up to 40 percent reduction in absorption area can be taken, but new proposals must prove a full area is available.) 61-180 minutes per inch (No reduction in absorption area for new structures; repair situations must maximize system sizing up to the square footage of a full-size system.)

Revised 7/01/08 Updates of the Onlot System Component Matrix will be posted at www.seotraining.org, under "Resources."

At-Grade Absorption Area (cont.)	4) CO-OP RFS III recirculating filter with UV light5) Recirculating subsurface sand (media) filter with UV light				4) 3-180 minutes per inch5) 3-180 minutes per inch
Shallow Limiting Zone At-Grade Absorption Area	Alternate 1) Peat filter with UV light 2) CO-OP RFS III recirculating filter with UV light 3) Recirculating subsurface sand (media) filter with UV light	0-12%	10 inches	16 inches	A soil scientist must do a soil morphological evaluation.
Drip Irrigation	Alternate 1) Intermittent sand (media) filter (free access or buried) 2) Free access gravity sand (media) filter 3) Aerobic tank (primary & secondary treatment) 4) Peat filter 5) CO-OP RFS III recirculating filter with UV light	0-25%	20 inches	Must be 20 inches minimum below drip tubing	A soil scientist must do a soil morphological evaluation.
Conventional Subsurface Sand (Media) Filter Bed or Trenches (12 inches of sand may be eliminated in bed)	Alternate Peat filter	0-8% Bed 0-25% Trenches	72 inches	72 inches	>90 minutes per inch at 12 to 36 inches and 3-90 minutes per inch at a depth between 36 and 60 inches
Modified Subsurface Sand (Media) Filter for Fast Percolation, Shallow Bedrock Sites With No Water Table Present	Alternate	0-8% (only beds permitted)	72 inches ⁽¹⁾	See Alternate Guidance Section 10 for explanation for LZ of rock with open joints. 72 inches ⁽¹⁾ – Slowly permeable rock formation or other	<3 minutes per inch at 12 to 36 inches and 3-180 minutes per inch at a depth between 36 and 60 inches

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				stratum	
Shallow Placement Pressure-Dosed System	Alternate	0-8% Beds 0-25% Trenches	58 inches ⁽¹⁾	58 inches ⁽¹⁾	6-90 minutes per inch
Steep Slope Elevated Sand Mound Beds	Alternate	≥12- <u><</u> 15%	20 inches ⁽¹⁾	20 inches ⁽¹⁾	3-30 minutes per inch
Evapotranspiration Bed within a Greenhouse	Alternate	No requirements	No requirements	No requirements	No requirements
Leaching Chambers as aggregate substitute in seepage bed or trenches, elevated sand mound bed or trenches, subsurface sand (media) filter bed or trenches	Alternate	Must meet the absorption area regulatory requirements.	Must meet the absorption area regulatory requirements.	Must meet the absorption area regulatory requirements.	Must meet the absorption area regulatory requirements. (Up to a 40 percent reduction in absorption area may be taken in some cases. See Alternate Guidance.)
Individual Designed Composting Toilet	Experimental	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater.
Graywater System (with the use of a waterless toilet)	Experimental	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater.	Must meet the absorption area regulatory requirements to dispose of the graywater. (Up to a 40 percent reduction in absorption area may be taken in some cases. See Alternate Guidance.)
Flow Equalization (for facilities with regular, predictable, fluctuating flows; alternating high and low flows)	Experimental	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements. The absorption area must be sized for the controlled daily flow volume plus 15 to 20 percent.
Alternate Aggregates: 1) Round, natural, "Type C," coarse aggregate or tire chip aggregate	Alternate	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements.	Must meet the appropriate absorption area regulatory requirements.

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2)	Glass cullet aggregate			
3)	Alternate fine aggregate (sand) – recycled glass fine aggregate			

⁽¹⁾The top of the limiting zone must be at least four feet below the bottom of the absorption area aggregate.