Wetland ID W-49 Cowardin Code PEM Date 08/27/19



Photograph Number <u>221</u>
Photograph Direction West

Comments:



Photograph Number 222
Photograph Direction NW

Comments:



Photograph Number 223

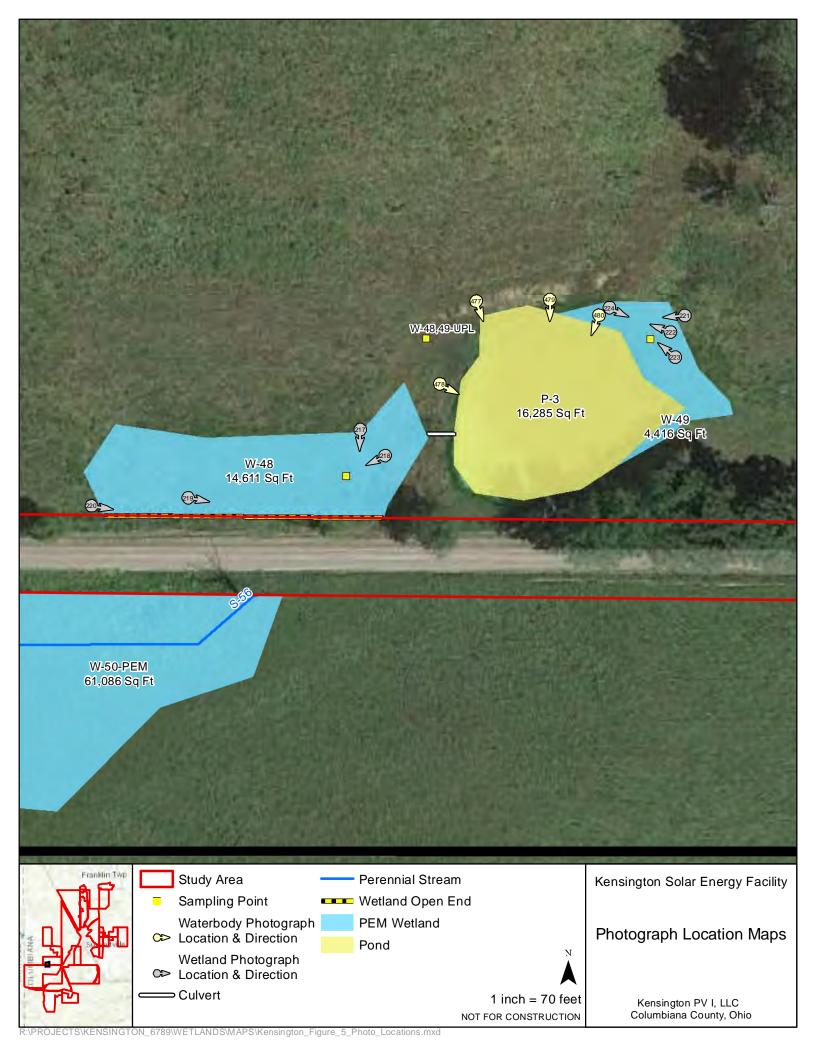
Photograph Direction NW

Comments:



Photograph Number 224

Photograph Direction SE



Project/Site: Kensington Solar	City/Cou	<sub>ntv:</sub> Columbiana		Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC	<u> </u>	,		Sampling Point: W-48, 49 UPL
	Section,	Township, Range: St		· · · · ·
Landform (hillslope, terrace, etc.): Hillslope	Local relief			
Subregion (LRR or MLRA): LRRN	Lat: 40.672902			Datum: NAD 83
Soil Map Unit Name: Westmoreland-Cosh		-		
Are climatic / hydrologic conditions on the site ty				<u></u>
	•			
Are Vegetation, Soil, or Hydrolog				present? Yes No
Are Vegetation, Soil, or Hydrolog			explain any answe	
SUMMARY OF FINDINGS – Attach s	site map showing samp	ling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No	s the Sampled Area		
	No   w	vithin a Wetland?	Yes	No
Wetland Hydrology Present? Yes	No			
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:		
		•		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil	, ,
Surface Water (A1)	True Aquatic Plants (B1		Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor		Drainage Pa	
Saturation (A3)	Oxidized Rhizospheres	-	Moss Trim Li	
Water Marks (B1)	Presence of Reduced In	, ,		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction i		Crayfish Bur	
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remai			sible on Aerial Imagery (C9) tressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Kemai	NS)		Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	` '
Field Observations:				
	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches):	Wetland I	Hydrology Preser	t? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previo	us inspections) if ava	ailable.	
Docoribo Nocordos Data (otrosim gaugo, monte	oring work, donar priotoc, provid	ad mopodadno), mave	andolo.	
Remarks:				

Sampling	Point: W-48	8, 49 UPL
----------	-------------	-----------

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5	-	-	·	That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	_	OBL species x 1 =
50% of total cover: 0 Sapling/Shrub Stratum (Plot size: 15')	20% of	total cover	:0	FACW species x 2 =
Japhing/Siliub Stratum (Flot Size)				FAC species x 3 =
1,			<del></del>	
2				FACU species x 4 =
3				UPL species x 5 =
4			·	Column Totals: (A) (B)
5		-		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	/er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				•
1. Dactylis glomerata	30		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Phleum pratense	20		FACU	1
3. Glechoma hederacea	10		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Trifolium pratense	10		FACU	Definitions of Four Vegetation Strata:
5				Deminions of Four Vegetation offata.
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8		-		
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.		-		m) tall.
11.				
···-	70	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover		or size, and woody plants loss than 5.20 it tall.
Woody Vine Stratum (Plot size: 15' )	2070 01	10101 00101	-	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
1			·	
3			· ——	
4			· ——	Hydrophytic
5	0		<del></del>	Vegetation Present? Yes No _ ✓
50% of total cover: 0		= Total Cover	_	105 No
		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the in	ndicator	or confirm	the absenc	e of indica	tors.)		
Depth	Matrix		Redo	k Features							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarl	KS	
0-12	10YR 4/4	100					SIL				
								-			
¹Type: C=Co	oncentration, D=Depl	etion. RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I			,,						Problematic		ls³:
Histosol			Dark Surface	(S7)					(A10) <b>(MLR</b>	•	
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(M</b>	II RA 147			ie Redox (A	•	
Black Hi			Tolyvalde Be				. +0,	(MLRA 1	•	. • ,	
	n Sulfide (A4)		Loamy Gleye			, 170)			Toodplain Sc	nils (F10)	
	d Layers (A5)		Depleted Mat		1 2)			(MLRA 1		///3 (1 13 <i>)</i>	
	ick (A10) <b>(LRR N)</b>		Redox Dark S		(6)				w Dark Surf	ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar	•	,			•	ain in Rema	, ,	
	ark Surface (A12)	(, , , , )	Redox Depre					oo. (=xp.	u		
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			_RR N.					
	\ 147, 148)	,	MLRA 13		, , <b>(</b> .						
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)	<sup>3</sup> lr	dicators of	hydrophytic <sup>,</sup>	vegetation a	and
	ledox (S5)		Piedmont Flo						ology must b	-	
	Matrix (S6)		Red Parent N					-	bed or probl		
	_ayer (if observed):				, ,		1				
Type:	,										
	ches):		<del></del>				Hydric So	il Present?	Yes	No	<b>/</b>
Remarks:			<u> </u>				,				_
rtomanto.											

Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/27/19
Project/Site: Kensington  Applicant/Owner: Kensington PV I, LLC		,		Sampling Point: W-50-PEM
Investigator(s): CV, JL, KP	Section	on, Township, Range: S2		
Landform (hillslope, terrace, etc.): Hillslope				
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Westmoreland-Cosl				
Are climatic / hydrologic conditions on the site				_
Are Vegetation, Soil, or Hydrole			Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrole	ogy naturally problemate	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	. No			
Hydric Soil Present? Yes	4	Is the Sampled Area	v V	No
Wetland Hydrology Present? Yes		within a Wetland?	res	NO
Remarks: Cowardin Code: PEM	HGM: Riverine	Water Type: I	RPWWD	
Cowardin Code. FEIVI	TIGIVI. TAVOTITIO	vvater Type. i	IXI VVVD	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed: check all that apply)		Surface Soil	
Surface Water (A1)	True Aquatic Plants (		· <del></del>	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	Oxidized Rhizospher		Moss Trim Li	
Water Marks (B1)	Presence of Reduced		Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Thin Muck Surface (0	C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer	marks)		tressed Plants (D1)
Iron Deposits (B5)			✓ Geomorphic	, ,
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)		<u> </u>	FAC-Neutral	Test (D5)
Field Observations:	- V Danille (Carlosa)	0		
	o Depth (inches):	8		
	o Depth (inches):			
Saturation Present? Yes N (includes capillary fringe)	o Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, pre	evious inspections), if avai	ilable:	
Domorko				
Remarks:				
				ļ
				ļ
				ļ
				· ·

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Cyperus esculentus

5. Eupatorium perfoliatum

10.\_\_\_\_\_

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_\_

4. Leersia oryzoides

6. Verbena hastata

7. Vernonia gigantea

8. Phalaris arundinaceae

Woody Vine Stratum (Plot size: 15'

1. Carex frankii 2. Carex vulpinoidea \_\_\_)

50% of total cover: \_\_\_0

\_\_)

50% of total cover: 52.5 20% of total cover: 21

50% of total cover: 0 20% of total cover:

50% of total cover: \_\_\_0\_\_ 20% of total cover: \_\_0\_

nes of plants	S.	Sampling P	oint: <u>W-50-PE</u>	EM
	ant Indicator	Dominance Test worksheet:		
6 Cover Specie	es? Status	Number of Dominant Species That Are OBL, FACW, or FAC	. 5	_ (A)
		Total Number of Dominant Species Across All Strata:	5	_ (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC	100%	_ (A/E
		Prevalence Index worksheet	<u> </u>	
		Total % Cover of:		
0 = Total	^		x 1 =	
20% of total co	ver: U	FACW species		
		' -	x 3 =	
			x 4 =	
			x 5 =	
		· —		
		Column Totals:	(A)	(B)
		Prevalence Index = B/A	=	
		Hydrophytic Vegetation India	cators:	
		1 - Rapid Test for Hydroph		
		2 - Dominance Test is >50	-	
		3 - Prevalence Index is ≤3	3.0 <sup>1</sup>	
0 = Total		4 - Morphological Adaptati	-	ıpportir
20% of total co	ver:0	data in Remarks or on		
	ODI	Problematic Hydrophytic \	•	,
15	OBL		regetation (Exp	iaiii)
15	OBL_	<sup>1</sup> Indicators of hydric soil and w	etland hydrology	/ must
15 🗸	<u>FACW</u>	be present, unless disturbed o		illuot
15 🗸	OBL	Definitions of Four Vegetation	on Strata:	
15 🗸	OBL			
10	FACW	Tree – Woody plants, excludin more in diameter at breast height		
10	FAC	height.	g. i. ( <i>DD</i> : 1), 10ga:	0.000 0
10	FACW	Continue/Charth Manda da alla al		
		Sapling/Shrub – Woody plant than 3 in. DBH and greater tha		
		m) tall.	·	•
		Herb – All herbaceous (non-we	oody) plants red	ardlace
105 = Total	Cover	of size, and woody plants less		garaics
20% of total co	ver: 21	Manada di Allana di Allana		no 4:-
		Woody vine – All woody vines height.	s greater than 3.2	28 π In
0 - Total		Hydrophytic Vegetation Present? Yes	No	
= Total ( 20% of total co	^	1.355.11		•

Remarks: (Include photo numbers here or on a separate sheet.)

inchas)	Matrix Color (moist)	0/		x Features		Loc²	Toyturo	Domorko
inches) 0-2	Color (moist) 10YR 3/3	<u>%</u> 98	Color (moist) 7.5YR 5/4	2	Type <sup>1</sup>	M	Texture L	Remarks Organic Material
	-							Organic Material
2-5	10YR 4/2	90	7.5YR 5/4	10_	<u>C</u>	M/PL	CL	
5-12	10YR 4/1	85	7.5YR 5/4	15_	С	M/PL	CL	
12-16	2.5Y 5/1	85	7.5YR 5/4	15	С	M/PL	CL	
		· <del></del>						
	-							
		· ——	-			<del></del>		
vpe: C=C	oncentration, D=Depl	letion. RM=	Reduced Matrix. MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
	Indicators:		· · · · · · · · · · · · · · · · · · ·					ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
_ Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	/ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
_ Black Hi	, ,		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		·c)		١./	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	- (Δ11)	Redox Dark : Depleted Dark :					ery Shallow Dark Surface (TF12) hther (Explain in Remarks)
	ark Surface (A12)	3 (7111)	Redox Depre				_ ~	and (Explain in Remarks)
	lucky Mineral (S1) (L	.RR N,	Iron-Mangan			LRR N,		
-	A 147, 148)		MLRA 13					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (	MLRA 13	86, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
_ Sandy R	Redox (S5)		Piedmont Flo		oils (F19)		<b>8)</b> we	tland hydrology must be present,
_ Sandy R _ Stripped	Matrix (S6)				oils (F19)		<b>8)</b> we	
_ Sandy R _ Stripped estrictive I	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		<b>8)</b> we	tland hydrology must be present,
Sandy R Stripped estrictive I Type:	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		<b>8)</b> we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
Sandy R Stripped estrictive I Type: Depth (inc	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
Sandy R Stripped estrictive I Type: Depth (inc	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
Sandy R Stripped estrictive I Type: Depth (inc	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type:	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
_ Sandy R _ Stripped estrictive I Type: Depth (ind	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
Sandy R Stripped estrictive I Type: Depth (inc	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.
Sandy R Stripped estrictive I Type: Depth (inc	Matrix (S6) Layer (if observed):		Piedmont Flo		oils (F19)		8) we	tland hydrology must be present, less disturbed or problematic.

Wetland ID W-50-PEM Cowardin Code PEM Date 08/27/19



Photograph Number <u>225</u>
Photograph Direction NW

Comments:



Photograph Number <u>226</u>
Photograph Direction NE

Comments:



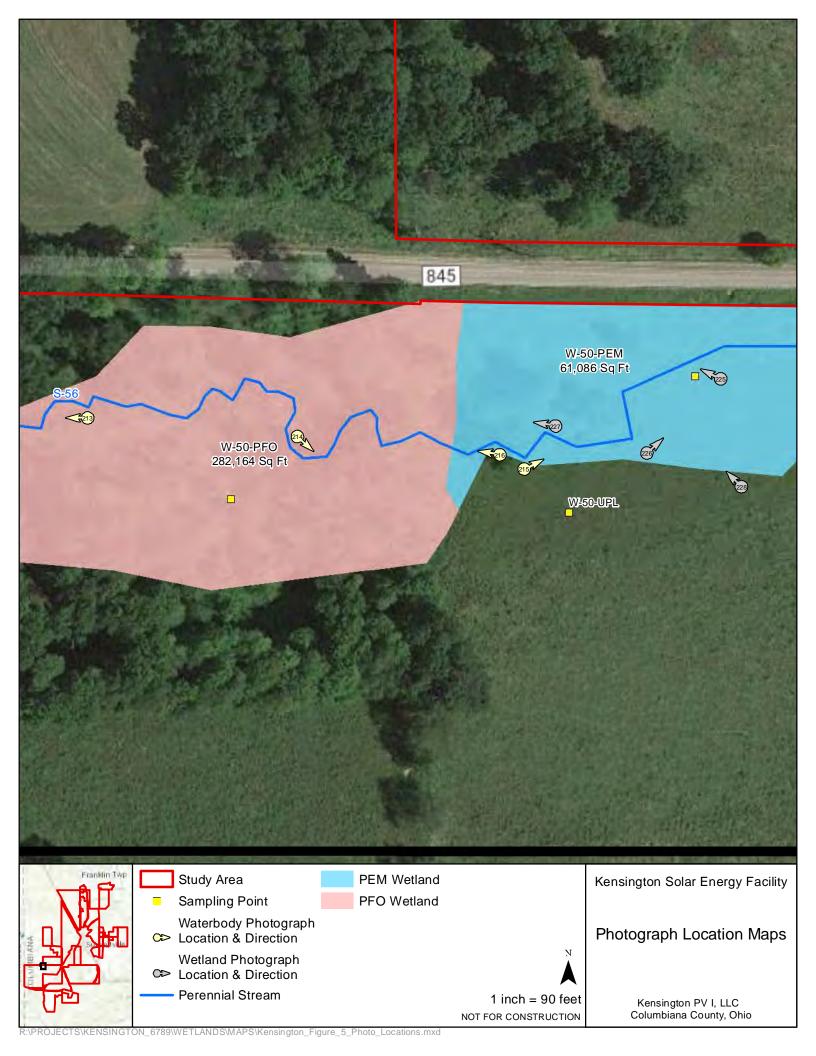
Photograph Number 227
Photograph Direction West

Comments:



Photograph Number 228

Photograph Direction NW



Project/Site: Kensington Solar	City/County: Columbiana	Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-50-PFO
	27 T14N R4W	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRRN		.908558 Datum: NAD 83
Soil Map Unit Name: Westmoreland-Coshoct		
Are climatic / hydrologic conditions on the site typic		
Are Vegetation, Soil, or Hydrology _		Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No le the Sampled Area	
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes ✔ No
Wetland Hydrology Present? Yes	No Within a Wetland?	res NO
Remarks: Cowardin Code: PFO	HGM: Riverine Water Type:	RPWWD
Soils continued:	Trom: Turo	
Orrville silt loam, 0 to 3 percent slopes, of	occasionally flooded	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; cl		Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches): 8	
		lydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections), if ava	ilable:
Remarks:		

#### VEGETATION (Four Strata) – Use scientific names of plants.

	ver: 8	Dominance Test worksheet:   Number of Dominant Species
_ = Total co	FACU FACU Cover ver: 8	That Are OBL, FACW, or FAC:4
= Total co	FACU FACU Cover ver: 8	Total Number of Dominant Species Across All Strata: 5
_ = Total co	FACU  Cover ver: 8	Species Across All Strata:
_ = Total co	Cover ver: 8	Species Across All Strata:
_ = Total co	ver: 8	That Are OBL, FACW, or FAC:80%
_ = Total co	ver: 8	That Are OBL, FACW, or FAC:80%
_ = Total co	ver: 8	Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =           UPL species         x 5 =           Column Totals:         (A)           Prevalence Index = B/A =           Hydrophytic Vegetation Indicators:           1 - Rapid Test for Hydrophytic Vegetation
of total co	ver: 8	Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =           UPL species         x 5 =           Column Totals:         (A)           Prevalence Index = B/A =           Hydrophytic Vegetation Indicators:           1 - Rapid Test for Hydrophytic Vegetation
of total co	ver: 8	OBL species       x 1 =         FACW species       x 2 =         FAC species       x 3 =         FACU species       x 4 =         UPL species       x 5 =         Column Totals:       (A)         Prevalence Index = B/A =         Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation
of total co	ver: 8	FACW species       x 2 =         FAC species       x 3 =         FACU species       x 4 =         UPL species       x 5 =         Column Totals:       (A)         Prevalence Index = B/A =         Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation
= Total		FAC species
_ = Total		FACU species
_ = Total		UPL species x 5 = (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
_ = Total		UPL species x 5 = (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total		Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
= Total		1 - Rapid Test for Hydrophytic Vegetation
_ = Total		
_ = Total		- 2 Dominance Test is > 500/
_		<u>▼</u> 2 - Dominance rest is >30%
_		3 - Prevalence Index is ≤3.0 <sup>1</sup>
of total co	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	ver: 0	data in Remarks or on a separate sheet)
/	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
- <del></del>		-
_ <u> </u>	OBL	Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		- Definitions of Four Vegetation Strata:
		- Trans. We also de la construit a mais de la Circ (7.0 ann) a
	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
		height.
		- Sanling/Shrub Woody planta avaluding vines loss
_		<ul> <li>Sapling/Shrub – Woody plants, excluding vines, less</li> <li>than 3 in. DBH and greater than or equal to 3.28 ft (1</li> </ul>
		_ m) tall.
		- Herb - All herbaceous (non-woody) plants, regardless
= Total	Cover	of size, and woody plants less than 3.28 ft tall.
		- Was divising. All was divising a prostor than 2.20 ft in
		<ul> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
_		
		│ Hydrophytic │ Vegetation
- Total	Covor	Present? Yes V No No
_	^	
or total oo	VOI	-
	of total co	OBL FACW FACW FACW  = Total Cover of total cover: 15

	ription: (Describe t	to the dept				or confirm	the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-2	10YR 3/3	98	7.5YR 5/4	2	C	M	L		Organic Ma	aterial
2-5	10YR 4/2	90	7.5YR 5/4	10	С	M/PL	CL			
5-12	10YR 4/1	85	7.5YR 5/4	15	C	M/PL	CL			
12-16	2.5Y 5/1	85	7.5YR 5/4	15	C	M/PL	CL	_		
12 10	2.01 0/1		7.01110/4			101/1 =				
	-				-					
								-		
<sup>1</sup> Type: C=Co	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked	I Sand G	rains.	<sup>2</sup> Location: Pl	L=Pore Lini	ing, M=Matrix.	
Hydric Soil	Indicators:						Indica	itors for Pi	roblematic Hy	/dric Soils³:
Histosol			Dark Surface						A10) <b>(MLRA 1</b>	
	pipedon (A2)		Polyvalue Be				<b>148)</b> C		e Redox (A16)	
Black Hi	en Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 140)	P	(MLRA 14	oodplain Soils	(F19)
	d Layers (A5)		Depleted Mar		/		<u> </u>	(MLRA 13		(1.10)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)			ery Shallov	v Dark Surface	
	d Below Dark Surface	e (A11)	Depleted Dar				0	ther (Expla	in in Remarks	)
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre Iron-Mangan			/I DD N				
	147, 148)	.KK N,	MLRA 13		es (F12)	(LKK N,				
	Gleyed Matrix (S4)		Umbric Surfa	-	MLRA 1	36, 122)	<sup>3</sup> Ind	icators of h	ydrophytic veg	getation and
	ledox (S5)		Piedmont Flo					-	ology must be	
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLF</b>	RA 127, 147	) unl	ess disturb	ed or problem	atic.
	_ayer (if observed):									
Type:	-h \.						Hudela Call	D	V V	NI.
Depth (inc	cnes):						Hydric Soil	Present?	Yes	No
Remarks:										

Wetland ID W-50-PFO Cowardin Code PFO Date 08/27/19



Photograph Number <u>229</u>
Photograph Direction West

Comments:



Photograph Number 230
Photograph Direction North

Comments:

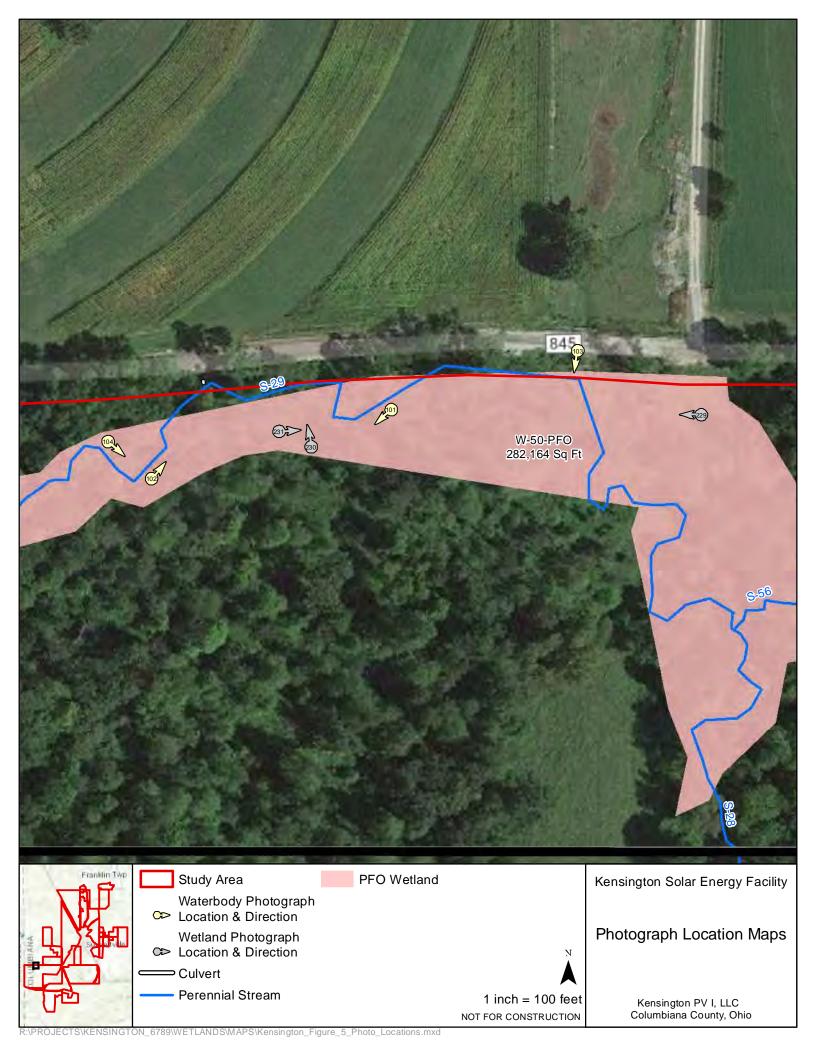


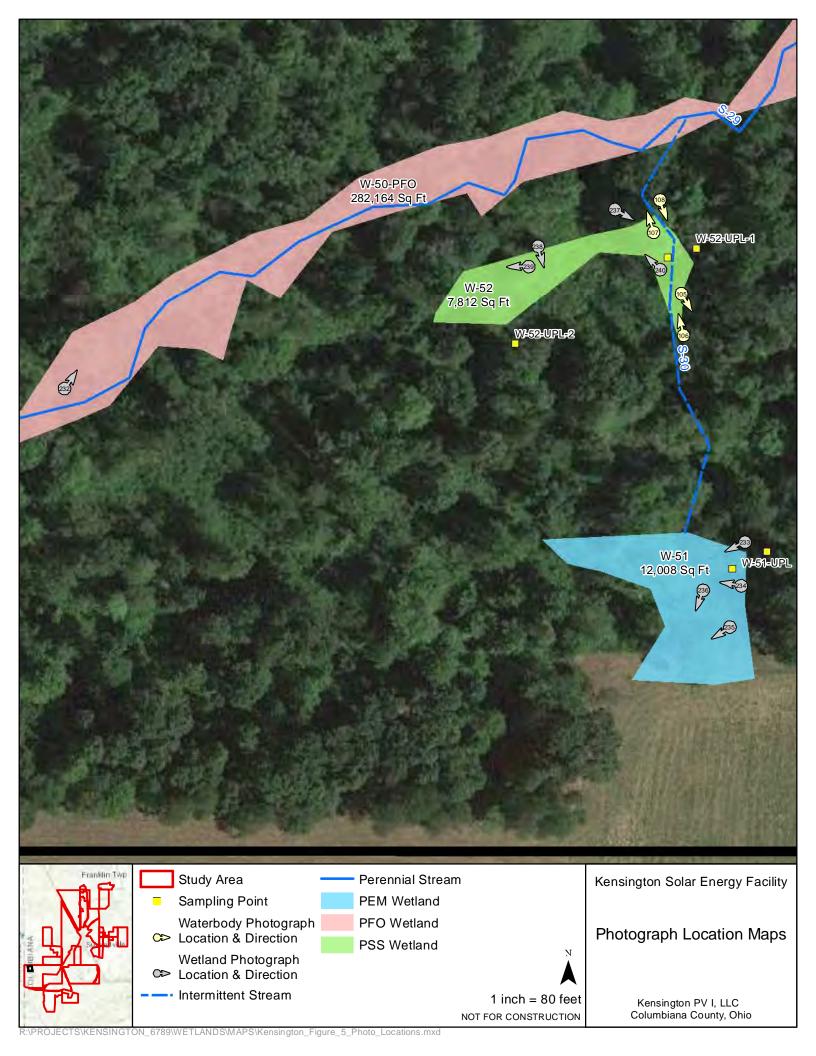
Photograph Number 231
Photograph Direction East

Comments:



Photograph Number 232
Photograph Direction NE





Project/Site: Kensington Solar	City/Co	<sub>unty:</sub> Columbiana		Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC		,		Sampling Point: W-50-UPL
	Section			
	Local relief			
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Westmoreland-Cosho	octon silt loams, 8 to 15	percent slopes	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site type	pical for this time of year? Yes	s No (	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbe	ed? Are "Normal	Circumstances" p	resent? Yes V No
Are Vegetation, Soil, or Hydrolog				
SUMMARY OF FINDINGS – Attach s		•	•	,
Lludrophytic Veretation Present?	No. V			<del>-</del>
	No.	s the Sampled Area		4
	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:		
HYDROLOGY			0 1 1 - 1	1
Wetland Hydrology Indicators:				tors (minimum of two required)
Primary Indicators (minimum of one is required			Surface Soil	
Surface Water (A1)	True Aquatic Plants (B			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor		Drainage Pat	
Saturation (A3)	<ul><li>Oxidized Rhizospheres</li><li>Presence of Reduced I</li></ul>	-	Moss Trim Li	
<ul><li>Water Marks (B1)</li><li>Sediment Deposits (B2)</li></ul>	Recent Iron Reduction		Crayfish Buri	Water Table (C2)
Occument Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rema			tressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Nome	inoj	Geomorphic	
Inundation Visible on Aerial Imagery (B7)		•	Shallow Aqui	
Water-Stained Leaves (B9)		•		phic Relief (D4)
Aquatic Fauna (B13)		•	FAC-Neutral	
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
	Depth (inches):			
	Depth (inches):		ydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit				
Describe Necolded Data (Stream gauge, month	oning well, aerial priotos, previ	ous mapections), ii avai	liable.	
Remarks:		-		

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-50-UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
TICC Stratum (1 lot 3126.	% Cover	Species?	Status	Number of Dominant Species	0	
1,			<del></del>	That Are OBL, FACW, or FAC: _		(A)
2				Total Number of Dominant	•	
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	0	(A/B)
6				Prevalence Index worksheet:		
7					Multiply by:	
		= Total Cov		OBL species x 1		
50% of total cover: 0	20% of	total cover	r: <u> </u>	FACW species x 2		
Sapling/Shrub Stratum (Plot size: 15' )				FAC species x 3		
1						
2				FACU species x 4		
3				UPL species x 5		
4				Column Totals: (A)		(B)
5				Prevalence Index = B/A = _		
6				Hydrophytic Vegetation Indicate		_
7						
8				1 - Rapid Test for Hydrophytic 2 - Dominance Test is >50%	vegetation	
9						
	_	= Total Cov	ver	3 - Prevalence Index is ≤3.0¹	1.00	
50% of total cover: 0	20% of	total cover	r: 0	4 - Morphological Adaptations		porting
Herb Stratum (Plot size:5'				data in Remarks or on a se		
1. Dactylis glomerata	5		FACU	Problematic Hydrophytic Vege	etation' (Expla	in)
2. Phleum pratense	20	~	FACU			
3. Glechoma hederacea	5		FACU	<sup>1</sup> Indicators of hydric soil and wetlan		must
4. Trifolium pratense	5		FACU	be present, unless disturbed or pro		
5. Daucus carota	65		UPL	Definitions of Four Vegetation S	trata:	
6				Tree - Woody plants, excluding vii		
7			-	more in diameter at breast height (height.	(DBH), regard	less of
				neight.		
8		-		Sapling/Shrub – Woody plants, ex		
9		-		than 3 in. DBH and greater than or m) tall.	r equal to 3.28	3 ft (1
10		-		, in the second		
11	100	T		Herb – All herbaceous (non-woody		rdless
50% of total cover: 50	20% of	= Total Cov total cover	ver 20	of size, and woody plants less than	1 3.20 II IaII.	
Woody Vine Stratum (Plot size: 15' )	20 /0 01	total cover		Woody vine – All woody vines gre	eater than 3.28	3 ft in
				height.		
1						
2						
3						
4				Hydrophytic		
4.       5.				Vegetation	No. V	
5	0 :	= Total Cov	_	1	No	
5	0 20% of		_	Vegetation	No <u> </u>	
5	0 20% of	= Total Cov	_	Vegetation	No <u> </u>	
5	0 20% of	= Total Cov	_	Vegetation	No	
5	0 20% of	= Total Cov	_	Vegetation	No <u> </u>	
5	0 20% of	= Total Cov	_	Vegetation	No <u> </u>	
5	0 20% of	= Total Cov	_	Vegetation	No	
5	0 20% of	= Total Cov	_	Vegetation	No	
5	0 20% of	= Total Cov	_	Vegetation	No <u> </u>	

Sampling Point: W-50-UPL

SOIL

Depth	Matrix		Redox Features				
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	oc <sup>2</sup> Text	ure	Remarks	
0-12	10YR 4/4	100		S	_		
	-						
	·	·					
	-						
<del></del>							
	-						
<del></del>							
1Type: C-Ce	noontration D_Dan	lotion BM-B	aduand Matrix, MS_Manked Sand Crains	<sup>2</sup> l conti	on: PL=Pore Lini	na M-Motriy	
Hydric Soil I		ielion, Rivi=Ri	educed Matrix, MS=Masked Sand Grains.			ng, ⋈≡⋈ашх. roblematic Hydric So	oile <sup>3</sup> :
-			Death 0.00( (07)				ons .
Histosol			Dark Surface (S7)	1 4 4 7 4 4 0 \		A10) <b>(MLRA 147)</b>	
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA			e Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			oodplain Soils (F19)	
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		
	ck (A10) (LRR N)	- (444)	Redox Dark Surface (F6)			/ Dark Surface (TF12)	)
	Below Dark Surface	∌ (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks)	
	ark Surface (A12)	DD N	Redox Depressions (F8)	N			
	lucky Mineral (S1) <b>(L</b>	.KK N,	Iron-Manganese Masses (F12) (LRR	N,			
	147, 148)		MLRA 136)	201	3Indiantors of b	udranhutia va satatian	and
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12			ydrophytic vegetation logy must be present	
	edox (S5)		Piedmont Floodplain Soils (F19) (ML				.,
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 12			ed or problematic.	.,
Stripped Restrictive L							
Stripped Restrictive L Type:	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type:	Matrix (S6)			7, 147)		ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type:	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	
Stripped Restrictive L Type: Depth (inc	Matrix (S6)  ayer (if observed):			7, 147)	unless disturb	ed or problematic.	

Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/27/1						
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-51				
		ownship, Range: S27 T14N R4V					
Landform (hillslope, terrace, etc.): Hillslope		concave, convex, none): Concave					
Subregion (LRR or MLRA): LRRN	Long: -80.913634						
Soil Map Unit Name: Berks channery silt loa	m, 8 to 15 percent slope:	S NWI classii	fication: N/A				
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes _	No (If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed?	? Are "Normal Circumstances"	"present? Yes No				
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach sit		•	,				
Hydrophytic Vegetation Present? Yes	No Is t						
	No.	the Sampled Area	No				
Wetland Hydrology Present? Yes	No	thin a Wetland? Yes	N0				
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: RPWWD					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)				
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface Sc	Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	egetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C		Patterns (B10)				
Saturation (A3)	✓ Oxidized Rhizospheres or	n Living Roots (C3) Moss Trim	Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron		n Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in	Tilled Soils (C6) Crayfish Bu	urrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)				
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>		· -	Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)				
Field Observations:			ai Test (D3)				
	✓ Depth (inches):						
	Depth (inches):						
	Depth (inches):		ant? Vas 🗸 No				
(includes capillary fringe)	Deptil (illolles).	ppth (inches): Wetland Hydrology Present? Yes _ V No_					
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	s inspections), if available:					
Remarks:							
Remarks.							

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Rubus allegheniensis

Woody Vine Stratum (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_ 1. Impatiens capensis

2. Agrimonia parviflora

4. Bidens frondosa

\_\_\_)

5. Carex frankii 5 OBL

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

50% of total cover: 55 20% of total cover: 22

50% of total cover: 0 20% of total cover: 0

mes of <sub>l</sub>	plants.		Sampling	Point	: <u>W-51</u>	
bsolute	Dominant		Dominance Test worksheet	::		
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC		1	(A)
			Total Number of Dominant Species Across All Strata:	_	1	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC		100%	(A/B
			Prevalence Index workshee	et:		
0 -	Total Cov		Total % Cover of:	N	/lultiply by:	
	total cover:	_	OBL species	x 1 =	:	_
_ 2070 01	total cover.		FACW species	x 2 =	:	
			FAC species	x 3 =		
			FACU species	x 4 =		
			UPL species			
			Column Totals:			
			Prevalence Index = B/A	A =		_
			Hydrophytic Vegetation Ind	licator	's:	
			1 - Rapid Test for Hydron			
			✓ 2 - Dominance Test is >5	-	3	
			3 - Prevalence Index is ≤	3.0 <sup>1</sup>		
	= Total Cov	_	4 - Morphological Adapta		(Provide sur	portin
_ 20% of	total cover:	0	data in Remarks or or			
70			Problematic Hydrophytic			
70 15		FACW FACW		9 - 1	(=	,
15			<sup>1</sup> Indicators of hydric soil and			must
5		FACU FACW	be present, unless disturbed	or pro	olematic.	
5			Definitions of Four Vegetat	ion St	rata:	
		OBL	<b>Tree</b> – Woody plants, excludi more in diameter at breast he height.			
			Sapling/Shrub – Woody plar than 3 in. DBH and greater th m) tall.			
110 =	 = Total Cov	 er	Herb – All herbaceous (non-vof size, and woody plants less			ardless
_ 20% of	total cover:	22	Woody vine – All woody vine height.	es grea	ater than 3.28	8 ft in
0 =	Total Cov		Hydrophytic Vegetation Present? Yes		No	

Remarks: (Include photo numbers here or on a separate sheet.)

Depth (inches)	Matrix					the absence			
(IIICIICS)	Matrix Color (moist)	%	Color (moist)	x Features%Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-10	10YR 4/2	95	7.5YR 4/4	5 C	M/PL	CL			
10-16	10YR 4/1	95	7.5YR 4/4	5 C	M/PL	CL			
						-			
						-			
				<u> </u>					
						2			
	oncentration, D=Depl Indicators:	etion, RM=	Reduced Matrix, MS	S=Masked Sand	Grains.	<sup>2</sup> Location: PL		ng, M=Matrix. r <b>oblematic Hy</b>	dria Caila³.
_			David Confess	(07)					
Histosol	oipedon (A2)		Dark Surface	low Surface (S8	\ (MI DA 147		,	A10) <b>(MLRA 1</b> 4 Redox (A16)	47)
	stic (A3)			rface (S9) <b>(MLF</b>			(MLRA 14		
	en Sulfide (A4)		Loamy Gleye	, , ,	, 170)			oodplain Soils (	(F19)
	d Layers (A5)		Depleted Mat				(MLRA 13		,
2 cm Mu	ıck (A10) (LRR N)		Redox Dark S					/ Dark Surface	(TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)		Ot	ther (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre						
	Mucky Mineral (S1) (L	.RR N,		ese Masses (F1	2) <b>(LRR N,</b>				
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 130	6) .ce (F13) <b>(MLR</b> /	126 122\	<sup>3</sup> Indi	ootore of h	ydrophytic veg	otation and
	Redox (S5)			odplain Soils (F				ology must be p	
	Matrix (S6)			//aterial (F21) <b>(N</b>			-	ed or problema	
	Layer (if observed):					1		оч от ртоглоти	
Type:	,								
						Hydric Soil	Present?	Yes 🗸	No
	ches):					_			
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):		<del>_</del>						
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
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	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								
Depth (in	ches):								

Wetland ID W-51 Cowardin Code PEM Date 08/27/19



Photograph Number 233
Photograph Direction SW

Comments:



Photograph Number <u>234</u>
Photograph Direction West

Comments:

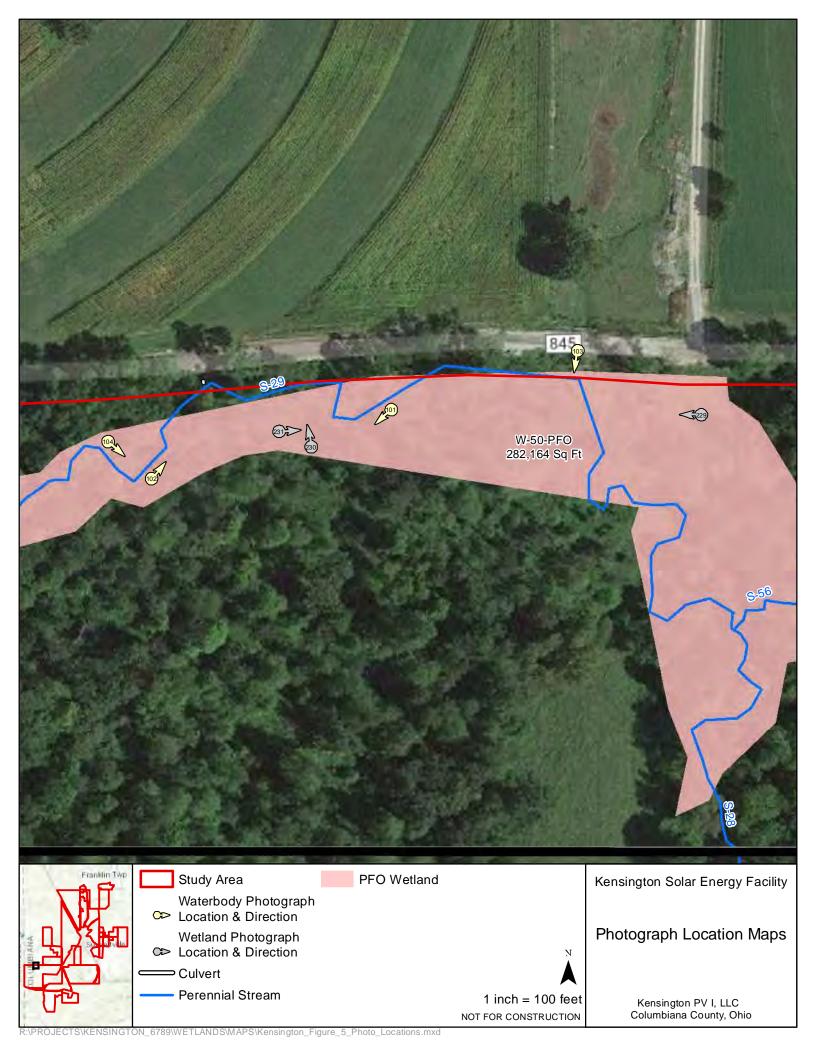


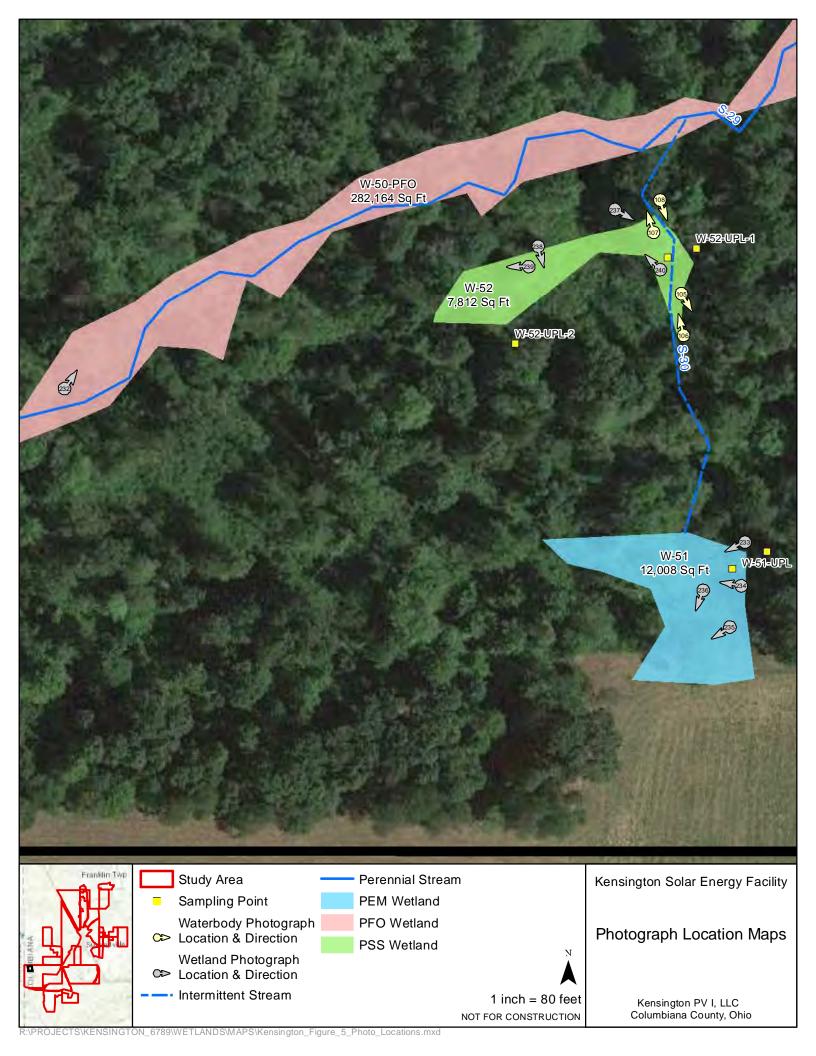
Photograph Number 235
Photograph Direction SW

Comments:



Photograph Number 236
Photograph Direction South





Project/Site: Kensington Solar	City/County: Columbiana Sampling Date: 08/27/19					
Applicant/Owner: Kensington PV I, LLC	State: OH Sampling Point: W-51					
	Section, Townsh					
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave	e. convex. none); Linear	Slope (%); 2-3			
Subregion (LRR or MLRA): LRRN						
Soil Map Unit Name: Berks channery	silt loam, 8 to 15 percent	slopes NWI classif	ication: N/A			
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes	No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach s						
		<u> </u>	, ,			
	No V Is the Sal	mpled Area				
	No within a V	Wetland? Yes	No			
Devente		ater Tyne:				
Cowardin Code: UPLAND	HGM: W	ater Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		<u></u>	cators (minimum of two required)			
Primary Indicators (minimum of one is required	; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	-	atterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on Living					
Water Marks (B1)	Presence of Reduced Iron (C4)	· ·	n Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S					
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or	Stressed Plants (D1)			
Iron Deposits (B5)			c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)			
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)			
Field Observations:	.,					
	Depth (inches):					
	Depth (inches):		_			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes No			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspe	ctions), if available:				
Describe						
Remarks:						

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-51-UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.		Species?		Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC: _	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	1	(B)
4		-				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
6				That 710 OBE, 1710W, 01 1710.		(700)
7				Prevalence Index worksheet:		
	0 .	= Total Cov		Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15' )		10101 00101		FACW species x 2	=	_
1				FAC species x 3	=	
			. ——	FACU species x 4	=	
2			· ——	UPL species x 5		
3				Column Totals: (A)		
4				Column Totals: (71)		_ (5)
5				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate	ors:	
7				1 - Rapid Test for Hydrophytic		
8				2 - Dominance Test is >50%	J	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
		= Total Cov		4 - Morphological Adaptations	:1 (Provide sur	norting
50% of total cover:0	20% of	total cover	:0	data in Remarks or on a se		
Herb Stratum (Plot size:5' )						
1. Dactylis glomerata	50		FACU	Problematic Hydrophytic Vege	station (Expla	in)
2. Solanum carolinense	15		FACU	1		
3. Echinochloa crus-galli	15		FAC	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pro		must
4		·		Definitions of Four Vegetation S		
5				Definitions of Four Vegetation 5	ilala.	
6				Tree – Woody plants, excluding vi		
				more in diameter at breast height (height.	(DBH), regard	less of
7				neight.		
8				Sapling/Shrub – Woody plants, e.	xcluding vines	, less
9				than 3 in. DBH and greater than or m) tall.	r equal to 3.28	3 ft (1
10				m, tan.		
11	80			Herb – All herbaceous (non-wood)		rdless
50% of total cover:40		= Total Cover		of size, and woody plants less than	n 3.28 π taii.	
	20% 01	total cover		Woody vine – All woody vines gre	eater than 3.28	3 ft in
Woody Vine Stratum (Plot size: 15' )				height.		
1,						
2						
3		-	<del></del>			
4			· ——	Hydrophytic		
5			<u> </u>	Vegetation		
_		= Total Cov	_	Present? Yes	No V	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)			•		

Depth	Matrix	o ine depin	needed to document the indicator or or Redox Features	commin the ab	ochice of mulcall	5.,	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Text		Remarks	
0-12	10YR 4/4	100		SI	L		
	-			<del></del>	<del></del>		
	-						
	-			<del></del>	<del></del>		
<del></del>	-				<del></del>		
<sup>1</sup> Type: C=Co	oncentration, D=Dep	etion RM=Re	educed Matrix, MS=Masked Sand Grains	s. <sup>2</sup> Locati	on: PL=Pore Lini	ng M=Matrix	
Hydric Soil I		0.0011, 1.001—1.00	Sadoba Matrix, Mo-Maskea Saria Stairie		Indicators for Pr		
Histosol			Dark Surface (S7)			A10) <b>(MLRA 1</b>	
	oipedon (A2)		Polyvalue Below Surface (S8) (MLF	RΔ 147 148)		Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA 147		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	, 140)		oodplain Soils	(F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(. 10)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			Dark Surface	e (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			in in Remarks	
	rk Surface (A12)	,	Redox Depressions (F8)		` '		,
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12) (LR	R N,			
	147, 148)		MLRA 136)				
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122)	3Indicators of hy	ydrophytic veg	getation and
	edox (S5)		Piedmont Floodplain Soils (F19) (M		wetland hydro		
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 1		unless disturb	ed or problem	atic.
Restrictive L	ayer (if observed):					·	
Type:							
• • • • • • • • • • • • • • • • • • • •	ches):		_	Hydri	c Soil Present?	Yes	No 🗸
Remarks:			<del>-</del>	,			
Nemains.							

Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/27/19					
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-52				
	Section, Township, Range:					
Landform (hillslope, terrace, etc.): Hillslope		one): Concave Slope (%): 2-3				
Subregion (LRR or MLRA): LRRN	0.91381NAD 83					
Soil Map Unit Name: Westmoreland-Coshoct						
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology _						
		ions, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area					
	Is the Sampled Area	Yes No				
Wetland Hydrology Present? Yes	No within a Wetland?	res No				
Remarks: Cowardin Code: PSS	HGM: Slope Water Type	RPWWD				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		✓ Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:	Porth (inch as)					
	Depth (inches):  Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections), if av	ailable:				
Remarks:						

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-52

Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	
1. Acer rubrum	15		F <u>AC</u>	That Are OBL, FACW, or FAC: 5	_ (A)
2. Quercus alba	5		F <u>ACU</u>	Total Number of Dominant	
3. Carya ovata	5		F <u>ACU</u>	Species Across All Strata: 8	(B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 63%	(A/B)
				mat Are OBL, FACW, of FAC.	_ (A/D)
		-		Prevalence Index worksheet:	
7	25	Tatal Car		Total % Cover of: Multiply by:	
50% of total cover: 12.5		= Total Cov		OBL species x 1 =	
451	<u> </u>	total cover		FACW species x 2 =	
Japinig/Jinub Stratum (1 lot size)	15		E A C\A/	FAC species x 3 =	
1. Sambucus nigra			FACW_		
2. Carpinus caroliniana	10		F <u>AC</u>	FACU species x 4 =	
3. Acer rubrum	5		F <u>AC</u>	UPL species x 5 =	
4				Column Totals: (A)	(B)
5				Brands and Index B/A	
6			- '	Prevalence Index = B/A =	
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8		-		✓ 2 - Dominance Test is >50%	
9	30			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% () 15		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide su	pporting
50% of total cover: 15	20% of	total cover	: <u>      6                              </u>	data in Remarks or on a separate shee	t)
Helb Stratum (Flot Size)	0.5		EAC\A/	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	
1. Impatiens capensis	25		FACW		u,
2. Scirpus cyperinus	20		FACW	1 Indicators of hydric call and watland hydrology	must
3. Solidago altissima	20		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	musi
4. Carex lurida	10		OBL	Definitions of Four Vegetation Strata:	
5. Polygonum sagittatum	5		OBL	Definitions of Four Vegetation Strata.	
6		-		Tree – Woody plants, excluding vines, 3 in. (7.	
				more in diameter at breast height (DBH), regar	dless of
7				height.	
8		-		Sapling/Shrub – Woody plants, excluding vine	
9		-		than 3 in. DBH and greater than or equal to 3.2	28 ft (1
10				m) tall.	
11				Herb - All herbaceous (non-woody) plants, reg	ardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>40</u>	20% of	total cover	r: <u>16</u>	Woody vine – All woody vines greater than 3.2	98 ft in
Woody Vine Stratum (Plot size: 15')				height.	
1					
2			_		
3					
4					
5.				Hydrophytic Vegetation	
<u> </u>		= Total Cov		Present? Yes V No	
50% of total cover: 0		total cover	_		
		total cover			
Remarks: (Include photo numbers here or on a separate s	neet.)				

Profile Desc	ription: (Describe t	o the dept	h needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	(Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/2	95	7.5YR 4/4	5	С	M/PL	CL	
10-16	10YR 4/1	95	7.5YR 4/4	5	С	M/PL	CL	
					'			
					-			
	-							
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (N	/ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>	(444)	Redox Dark S	•	,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				0	other (Explain in Remarks)
	fik Sulface (A12) fucky Mineral (S1) <b>(L</b> l	RR N	Iron-Mangane			IRRN		
	147, 148)	ixix i <b>v</b> ,	MLRA 136		es (i iz) <b>(</b>	LIXIX IN,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	36, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes V No No
Remarks:								

Wetland ID W-52 Cowardin Code PSS Date 08/27/19



Photograph Number <u>237</u>
Photograph Direction <u>SE</u>

Comments:



Photograph Number 238

Photograph Direction SE

Comments:



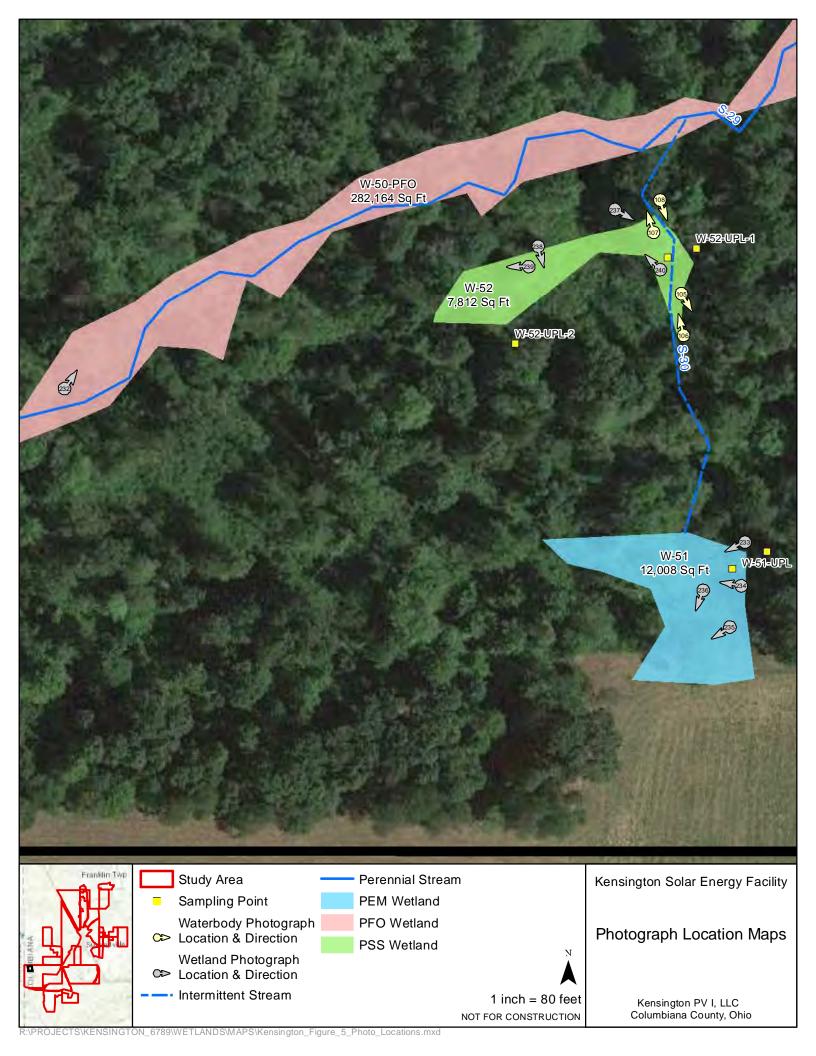
Photograph Number 239

Photograph Direction West

Comments:



Photograph Number 240
Photograph Direction NW



Project/Site: Kensington	City/County	<sub>/:</sub> Columbiana	Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-52-UPL
Investigator(s): CV, JL, KP			. •
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR or MLRA): LRRN	Local relief (cc	-80.914272	Slope (%) 0
Soil Map Unit Name: Berks channery sil	t loam 8 to 15 perc	ent slones	Datum: 14AB 00
•			
Are climatic / hydrologic conditions on the site typic			į.
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstand	ces" present? Yes <u>▼</u> No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any a	nswers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling	g point locations, trans	ects, important features, etc.
Hydrophytic Vegetation Present? Yes	No_ ✓		
	No /	ne Sampled Area	/
Wetland Hydrology Present? Yes	No ✓ with	nin a Wetland? Yes _	No <u>√</u>
Remarks: Cowardin Code: UPLAND		Water Type:	
Gowardin Gode. OF LAND	TIOW.	vvater Type.	
HYDROLOGY			
Wetland Hydrology Indicators:			ndicators (minimum of two required)
Primary Indicators (minimum of one is required; cl			e Soil Cracks (B6)
	True Aquatic Plants (B14)		ly Vegetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C´		ge Patterns (B10)
Saturation (A3)	<ul><li>Oxidized Rhizospheres on</li><li>Presence of Reduced Iron</li></ul>	*	rim Lines (B16) ason Water Table (C2)
	Recent Iron Reduction in T	•	h Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	•	ion Visible on Aerial Imagery (C9)
·	Other (Explain in Remarks		or Stressed Plants (D1)
Iron Deposits (B5)			rphic Position (D2)
Inundation Visible on Aerial Imagery (B7)			Aquitard (D3)
Water-Stained Leaves (B9)		Microto	pographic Relief (D4)
Aquatic Fauna (B13)		FAC-Ne	eutral Test (D5)
Field Observations:	,		
	✓ Depth (inches):		
	✓ Depth (inches):		
	✓_ Depth (inches):	Wetland Hydrology Pr	resent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring)	ng well, aerial photos, previous	inspections), if available:	
	<u> </u>		
Remarks:			

'EGETATION (Four Strata) – Use scientific n	Sampling Point: W-52-UPL			
30'	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30' )		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
				That Ale Obl., I ACW, OIT AC (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6		-		Prevalence Index worksheet:
1	0		. ——	Total % Cover of: Multiply by:
50% of total cover:0		= Total Cov		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	20% 01	total cover		FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
_		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	. 0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )		,	E4011	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Dactylis glomerata	50		FACU	Problematic Hydrophytic Vegetation (Explain)
2. Solanum carolinense	15		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Echinochloa crus-galli	15		FAC	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8		-		Conline/Chrub Woody plants avaluding vines less
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	80	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40	20% of	total cover	16	Woody vine All woody vines greater than 2.29 ft in
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				·
2		-		
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No _✓
50% of total cover:0	20% of	total cover	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point:  $\underline{W-52-U}PL$ 

SOIL

Profile Desc	cription: (Describe to	o the depth	needed to docun	nent the ir	ndicator	or confirm	the absence	e of indicator	rs.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100					SIL			
							-			
	-							·		
								. —		
1- 0.0		Color (moist)								
		etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.				
Hydric Soil				(==)						~
Histosol		,			(0.0) (5.0					
	pipedon (A2)						148) (			)
	stic (A3)	•				47, 148)	,			· (E10)
	en Sulfide (A4) d Layers (A5)				-2)		— '			5 (F 19)
	uck (A10) (LRR N)	•			6)		,			۵ (TF12)
		(A11)								
	ark Surface (A12)	(,,,,						outor (Enplain		-,
		RR N,				RR N,				
-	A 147, 148)	•			` , ,	·				
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hy	drophytic ve	getation and
	Redox (S5)						<b>8)</b> w	etland hydrol	ogy must be	present,
Stripped	l Matrix (S6)		Red Parent N	Material (F2	21) <b>(MLR</b>	A 127, 147	<b>')</b> ur	nless disturbe	d or problen	natic.
Restrictive	Layer (if observed):									
Туре:			_							
Depth (in	ches):		_				Hydric Soi	il Present?	Yes	_ No <u> </u>
Remarks:							1			

Project/Site: Kensington	City/C	ounty: Columbiana		Sampling Date: 08/27/19
Project/Site: Kensington Applicant/Owner: Kensington PV I, LLC		,		Sampling Point: W-53
Investigator(s): CV, JL, KP	on, Township, Range: S2		<u></u>	
Landform (hillslope, terrace, etc.): Floodplain				Slope (%): 1-3
Subregion (LRR or MLRA): LRRN	Lot. 40 68132	-80.	.903813	olope (%) Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to	3 nercent slones, occa			
Are climatic / hydrologic conditions on the site type	•			
Are Vegetation, Soil, or Hydrolog	y significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally problema	atic? (If needed, e	explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point location	ns, transects,	, important features, etc.
Hadron baria Manadatian Barando	✓ No.			
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _		Is the Sampled Area		
Wetland Hydrology Present? Yes		within a Wetland?	Yes	No
Demonstra		Matan Tunas	DDMAAA	
Cowardin Code: PEM	HGM: Slope	Water Type:	RPWWN	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required	check all that apply)		Surface Soil (	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (	B14)	·	etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Ode		Drainage Pat	
Saturation (A3)	✓ Oxidized Rhizosphere		Moss Trim Li	
Water Marks (B1)	Presence of Reduced			Vater Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio	` ,	Crayfish Burn	
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren			ressed Plants (D1)
Iron Deposits (B5)		,	Geomorphic I	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	` '
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches):		lydrology Presen	t? Yes 🗸 No
(includes capillary fringe)			9-1-1-	
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, pre	vious inspections), if ava	liable:	
Remarks:				

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Samn	lina	Point:	W-53
Sallib	III IU	rollit.	** 00

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	3	(4)
1				That Are OBL, FACW, or FAC: _		(A)
2				Total Number of Dominant	3	(5)
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC: _	10076	(A/B)
6				Prevalence Index worksheet:		
7	0 -	Total Cov		Total % Cover of:	Multiply by:	
50% of total cover:0				OBL species x 1 :	=	
Sapling/Shrub Stratum (Plot size: 15' )	20 /0 01	total cover		FACW species x 2		
1				FAC species x 3	=	
2				FACU species x 4	=	
3				UPL species x 5		
4				Column Totals: (A)		
5						
6				Prevalence Index = B/A = _		_
7				Hydrophytic Vegetation Indicato		
				1 - Rapid Test for Hydrophytic	Vegetation	
8				✓ 2 - Dominance Test is >50%		
<u> </u>	_	= Total Cov	or	3 - Prevalence Index is ≤3.0¹		
50% of total cover:0				4 - Morphological Adaptations		
Herb Stratum (Plot size: 5' )				data in Remarks or on a se	•	
1. Carex vulpinoidea	20	~	OBL	Problematic Hydrophytic Vege	tation¹ (Expla	iin)
2. Phalaris arundinacea	20	~	FACW			
3. Carex lurida	20	~	OBL	<sup>1</sup> Indicators of hydric soil and wetlar		must
4. Juncus effusus	15		FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> </ul>		
<sub>5.</sub> Euthamia graminifolia	15		FAC	Definitions of Four Vegetation S	trata:	
6. Eupatorium perfoliatum	10		OBL	Tree - Woody plants, excluding vir		
7. Impatiens capensis	10		FACW	more in diameter at breast height ( height.	DBH), regard	less of
8						
0				Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or	cluding vines	s, less
10				m) tall.	equal to 5.20	) 11 (1
11.				Hark All bank account (account of	.\ _lt	
	110	= Total Cov	er	<b>Herb</b> – All herbaceous (non-woody of size, and woody plants less than		ardiess
50% of total cover:55	20% of	total cover	22		0.04	
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines gre height.	ater than 3.28	3 π in
1						
2			. <u></u>			
3			. <u></u>			
4			. <u></u>	Hydrophytic		
5			. <u></u>	Vegetation		
	0 _	= Total Cov	er	Present? Yes	No	
50% of total cover:0	20% of	total cover	0			
Remarks: (Include photo numbers here or on a separate s	heet.)			-		

Profile Desc	ription: (Describe t	o the dept	h needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	(Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/2	95	7.5YR 4/4	5	С	M/PL	CL	
10-16	10YR 4/1	95	7.5YR 4/4	5	С	M/PL	CL	
					'			
					-			
	-							
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (N	/ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>	(444)	Redox Dark S	•	,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				0	other (Explain in Remarks)
	fik Sulface (A12) fucky Mineral (S1) <b>(L</b> l	RR N	Iron-Mangane			IRRN		
	147, 148)	ixix i <b>v</b> ,	MLRA 136		es (i iz) <b>(</b>	LIXIX IN,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	36, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes V No No
Remarks:								

Wetland ID W-53 Cowardin Code PEM Date 08/27/19



Photograph Number <u>241</u>
Photograph Direction <u>SE</u>

Comments:



Photograph Number <u>242</u>
Photograph Direction East

Comments:



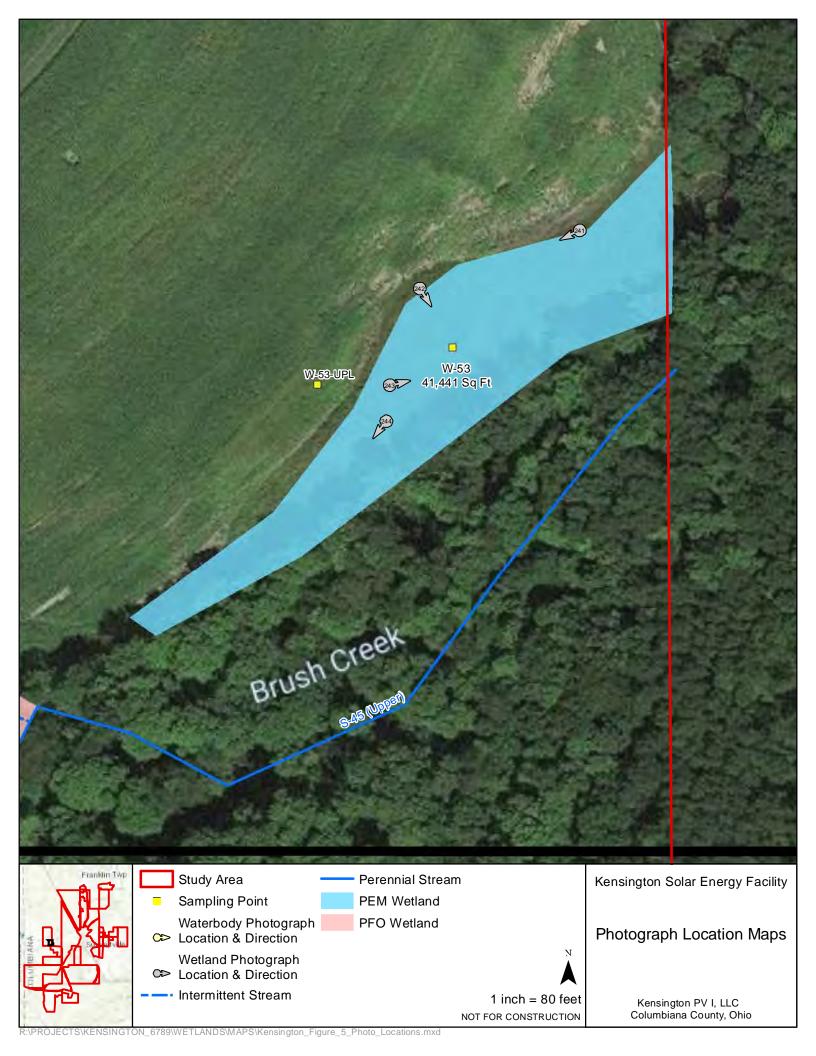
Photograph Number 243

Photograph Direction SE

Comments:



Photograph Number 244
Photograph Direction SSW



Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/27/19				
Applicant/Owner: Kensington PV I, LLC	State: OH Sampling Point: W-53				
	Section, Township, Range: S22 T14N R4W				
Landform (hillslope, terrace, etc.): Hillslope					
Subregion (LRR or MLRA): LRRN			Datum: NAD 83		
Soil Map Unit Name: Orrville silt loam, 0 to	3 percent slopes, occasionally f	looded NWI classifi	ication: N/A		
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes	No (If no, explain in I	Remarks.)		
Are Vegetation, Soil, or Hydrology	/ significantly disturbed?	Are "Normal Circumstances"	present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach si					
	No Is the San	npled Area			
	No within a W	etland? Yes	No		
Remarks: Cowardin Code: UPLAND	HGM: Wa	ater Type:			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi	l Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa	Drainage Patterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living	Roots (C3) Moss Trim I			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S				
Drift Deposits (B3)	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)		
Iron Deposits (B5)		<del></del>	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu			
Water-Stained Leaves (B9)			raphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutra	ai Test (D5)		
Field Observations: Surface Water Present? Yes No	✓ Depth (inches):				
	Depth (inches):				
	Depth (inches):	Watland Hudralany Drasa			
(includes capillary fringe)	Depth (inches)	Wetland Hydrology Prese	nt? Yes No		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:			
Demode					
Remarks:					

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-53-UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tice otratam (Fiot Size.	% Cover	Species?	<u>Status</u>	Number of Dominant Species	2	(4)
			- ——	That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	0	
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species	4000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				Prevalence Index worksheet:		
7	0		- ——	Total % Cover of:	Multiply by:	
50% of total cover:0		= Total Cov		OBL species x 1		
Sapling/Shrub Stratum (Plot size: 15' )	20% 01	total cover		FACW species x 2		
				FAC species x 3		
1			<del></del>	FACU species x 4		
2			<del></del>	UPL species x 5		
3			<del></del>	Column Totals: (A)		
5						
6			·	Prevalence Index = B/A =		_
7				Hydrophytic Vegetation Indicat		
8				1 - Rapid Test for Hydrophyti	-	
9				2 - Dominance Test is >50%		
<u>.                                    </u>	^	= Total Cov	/er	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover: 0				4 - Morphological Adaptation		porting
Herb Stratum (Plot size: 5' )				data in Remarks or on a s		
1. Echinochloa crus-galli	25	<b>✓</b>	FAC	Problematic Hydrophytic Veg	jetation' (Expla	in)
2. Andropogon gerardii	10	~	FAC			
3				<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or p		must
4				Definitions of Four Vegetation		
5				Deminions of Four Vegetation	Juata.	
6				Tree – Woody plants, excluding w		
7				more in diameter at breast height height.	(DBH), Tegalu	IESS 01
8				Continue/Clemete Western along		
9				Sapling/Shrub – Woody plants, of than 3 in. DBH and greater than of		
10				m) tall.	·	`
11				Herb – All herbaceous (non-wood	dv) plants, rega	rdless
	35	= Total Cov	/er	of size, and woody plants less that		
50% of total cover:17.	5 20% of	total cover	:7	Woody vine – All woody vines gr	reater than 3.28	R ft in
Woody Vine Stratum (Plot size: 15')				height.	04.01 1.1411 0.20	710 111
1		-				
2						
3						
4				Hydrophytic		
5				Vegetation Present? Yes ✓	Na	
A		= Total Cov	•	Present? Yes	No	
50% of total cover:0		total cover	:0			
Remarks: (Include photo numbers here or on a separate s	neet.)					

Sampling Point: W-53-UPL

SOIL

Profile Desc	ription: (Describe t	o the depth i	needed to docur	nent the ind	icator c	or confirm	the abse	ence of indicato	ors.)	
Depth	Matrix		Redo	x Features	- 1					
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Textur	<u></u>	Remarks	
0-12	10YR 4/4	100								
										<u> </u>
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked Sa	and Gra	ins.		n: PL=Pore Lini		
Hydric Soil I	ndicators:						Ir	ndicators for Pr	oblematic Hy	ydric Soils³:
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (A	410) <b>(MLRA 1</b>	47)
Histic Ep	ipedon (A2)		Polyvalue Be	low Surface	(S8) <b>(M</b>	LRA 147,	148) _	Coast Prairie	Redox (A16)	
Black His			Thin Dark Su			47, 148)		(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		)		_	Piedmont Flo		(F19)
	Layers (A5)		Depleted Ma					(MLRA 13		(TE40)
	ck (A10) <b>(LRR N)</b> I Below Dark Surface	.(//11)	Redox Dark : Depleted Dark :		7\		_		Dark Surface in in Remarks	, ,
	rk Surface (A12)	(Д11)	Redox Depre		')		_	Other (Explai	III III INGIIIAINS	)
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		(F12) <b>(L</b>	RR N.				
	147, 148)	,	MLRA 13		· / ·	,				
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (ML	-RA 136	6, 122)		<sup>3</sup> Indicators of hy	ydrophytic veg	getation and
Sandy R	edox (S5)		Piedmont Flo	odplain Soils	s (F19) (	MLRA 14	8)	wetland hydro	logy must be	present,
	Matrix (S6)		Red Parent N	Naterial (F21)	) <b>(MLR</b>	127, 147	<b>'</b> )	unless disturb	ed or problem	atic.
Restrictive L	ayer (if observed):									
Type:			_							
Depth (inc	ches):		_				Hydric	Soil Present?	Yes	No 🔽
Remarks:							•			

Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/27/19				
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Poin			
	Section, Township, Range: S22 T14N R4W				
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 1-2	
Subregion (LRR or MLRA): LRRN	Lat: 40.68085	Long80	.90578	Datum: NAD 83	
Soil Map Unit Name: Gavers silt loam, 2 to	6 percent slopes		NWI classification	ation: N/A	
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Ye	es <u>/</u> No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturb	ped? Are "Normal	Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach si					
Hydrophytic Vegetation Present? Yes _	✓ No				
	✓ No_	Is the Sampled Area within a Wetland?	Vas 🗸	No	
Wetland Hydrology Present? Yes _	✓ No	within a Wetland:	165		
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type:	RPW/WN		
Soils continued: Orrville silt loam, 0 to 3 percent slopes,	occasionally flooded				
HYDROLOGY					
Wetland Hydrology Indicators:			<u> </u>	tors (minimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil (		
Surface Water (A1)	True Aquatic Plants (E			etated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odd		✓ Drainage Pat		
Saturation (A3)	✓ Oxidized Rhizosphere	-	Moss Trim Li	, ,	
Water Marks (B1)	Presence of Reduced	` '		Nater Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burr		
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C Other (Explain in Rem			sible on Aerial Imagery (C9) ressed Plants (D1)	
Algar Mat of Crust (B4) Iron Deposits (B5)	Other (Explain in Ken	iaiks)	Geomorphic		
Inundation Visible on Aerial Imagery (B7)				· ·	
Water-Stained Leaves (B9)			Shallow Aquitard (D3) Microtopographic Relief (D4)		
Aquatic Fauna (B13)			FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes No	✓ Depth (inches):				
	Depth (inches):				
	Depth (inches):		lydrology Presen	t? Yes 🗸 No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, prev	vious inspections), if ava	ıılable:		
Remarks:					

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_

1. Phalaris arundinacea
2. Impatiens capensis

4. Carex lurida

6. Ludwigia alternifolia

3. Eutrochium maculatum

5. Carex frankii

Woody Vine Stratum (Plot size: 15')

\_\_\_)

50% of total cover: \_\_\_0

% Cover Species? Status

= Total Cover

0 = Total Cover

10

5\_\_\_\_

105 = Total Cover

0 = Total Cover

10

10

50% of total cover: <u>52.5</u> 20% of total cover: <u>21</u>

50% of total cover: 0 20% of total cover:

20% of total cover:\_ 0

**FACW** 

**FACW** 

**FACW** 

OBL

OBL

**FACW** 

50% of total cover: 0 20% of total cover: 0

	Sampling Poi	nt: W-54-PEN	/			
	Dominance Test worksheet:					
_	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)			
-	Total Number of Dominant Species Across All Strata:	2	(B)			
-	Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)			
-	Prevalence Index worksheet:					
-	Total % Cover of:	Multiply by:				
	OBL species x					
-	FACW species x :					
		3 =				
-		4 =				
-	UPL species x :					
-	•	·	<del></del>			
-	Column Totals: (A)		_ (D)			
-	Prevalence Index = B/A =		_			
-	Hydrophytic Vegetation Indicate	tors:				
-	1 - Rapid Test for Hydrophyt	ic Vegetation				
-	✓ 2 - Dominance Test is >50%					
-	3 - Prevalence Index is ≤3.0 <sup>1</sup>					
	4 - Morphological Adaptations <sup>1</sup> (Provide supporting					
-	data in Remarks or on a s	separate sheet)				
_	Problematic Hydrophytic Vec	getation <sup>1</sup> (Explai	in)			
-	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrology r	nust			
-	Definitions of Four Vegetation	Strata:				
	Tree – Woody plants, excluding wore in diameter at breast height height.					
	<b>Sapling/Shrub</b> – Woody plants, than 3 in. DBH and greater than m) tall.					
-	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that		rdless			
-	<b>Woody vine</b> – All woody vines gineight.	reater than 3.28	ft in			
-						
-						
-						
-	Hydrophytic					
-	Vegetation Present? Yes <u>V</u>	No				

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	ription: (Describe t Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<del></del>	Remarks	
0-16	10YR 4/2	90	7.5YR 4/4	10	С	M/PL	CL			
								·		
			_					<u> </u>		
		<del></del>						· ———		
								·		
Type: C=Co	oncentration, D=Depl	etion. RM=F	Reduced Matrix. MS	S=Masked S	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lin	ing, M=Matrix.	
lydric Soil I		<u> </u>	toudoud manny me		<u> </u>				roblematic Hy	
Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	pipedon (A2)		Polyvalue Be	. ,	(S8) (N	/ILRA 147,			e Redox (A16)	
Black Hi			Thin Dark Su				, <u> </u>	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleye		2)		[	Piedmont Fl	oodplain Soils	(F19)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)				(MLRA 13		
	ick (A10) (LRR N)		Redox Dark S	, ,					v Dark Surface	
	Below Dark Surface	e (A11)	Depleted Dar				_ (	Other (Expla	in in Remarks	)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) <b>(</b>	LRR N,				
	<b>147, 148)</b> sleyed Matrix (S4)		MLRA 136 Umbric Surfa	•	II DA 43	e 122\	3 <sub>ln</sub> ,	diantara of b	ydrophytic veg	rotation and
	edox (S5)		Piedmont Flo						ology must be p	
	Matrix (S6)		Red Parent N						ed or problem	
	_ayer (if observed):		Red r drent n	natoriai (i Z	·		, ui	iicoo diotare	rea or problem	allo.
Type:										
•••	ches):						Hydric Soi	I Present?	Yes_	No
	Jiles)		<del></del>				Tiyunc 301	ii i ieseiit:	163	
Remarks:										

Wetland ID W-54-PEM Cowardin Code PEM Date 08/27/19



Photograph Number <u>249</u>
Photograph Direction NW

Comments:



Photograph Number <u>250</u>
Photograph Direction East

Comments:



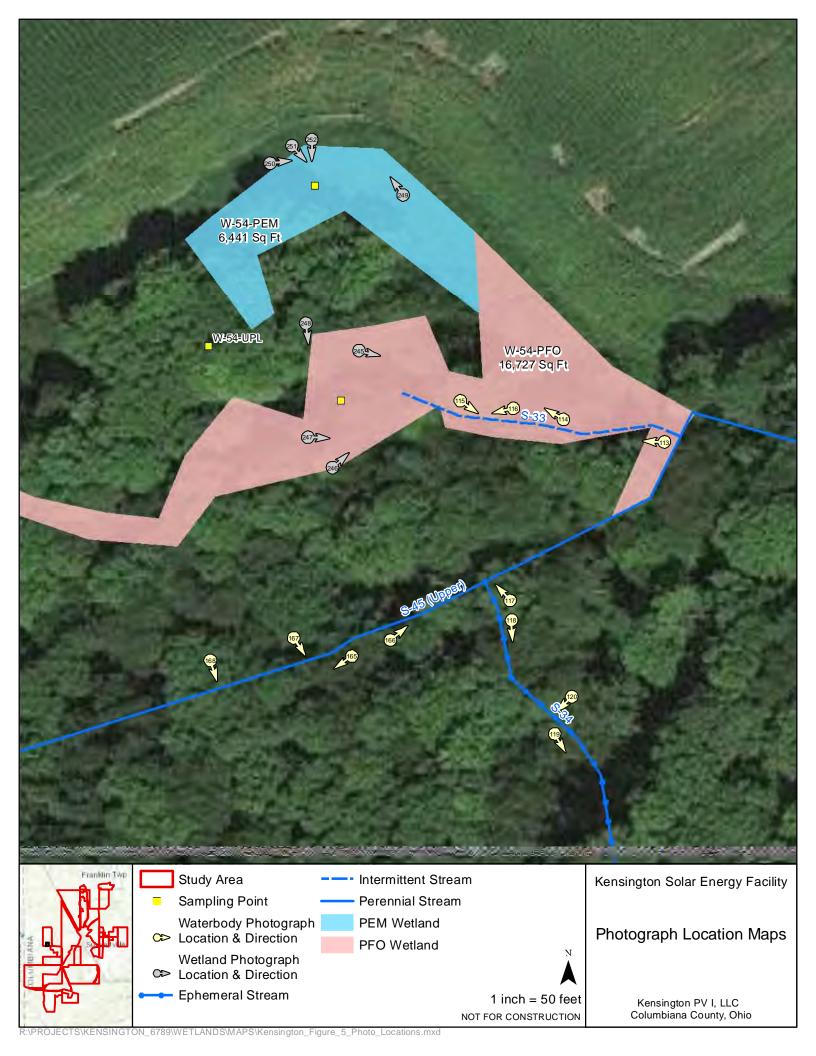
Photograph Number 251

Photograph Direction SE

Comments:



Photograph Number 252
Photograph Direction SE



Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/27/19				
Applicant/Owner: Kensington PV I, LLC		State: OH	Sampling Point: W-54-PFO		
	<sub>ge:</sub> S22 T14N R4W				
Landform (hillslope, terrace, etc.): Floodplain		Slope (%): 0			
Subregion (LRR or MLRA): LRRN		Datum: NAD 83			
Soil Map Unit Name: Orrville silt loam, 0 t	o 3 percent slopes, occasionally	looded NWI classific	cation: PSS1/EM1C		
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrology	/significantly disturbed? Are "N	Normal Circumstances" ,	present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach si	te map showing sampling point lo	cations, transects	s, important features, etc.		
Hydrophytic Vegetation Present? Yes _	No Is the Sampled				
	Is the Sampled	,	No		
Wetland Hydrology Present? Yes _		a? Yes <u> </u>	NO		
Remarks: Cowardin Code: PFO	HGM: Depressional Water T	ype: RPWWD			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa	itterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living Roots		` '		
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C				
Drift Deposits (B3)	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)		tressed Plants (D1) Position (D2)		
Inundation Visible on Aerial Imagery (B7)					
Water-Stained Leaves (B9)			Shallow Aquitard (D3) Microtopographic Relief (D4)		
Aquatic Fauna (B13)		Microtopographic Relief (D4)  ✓ FAC-Neutral Test (D5)			
Field Observations:			(,		
Surface Water Present? Yes No _	✓ Depth (inches):				
	Depth (inches):				
	•	land Hydrology Preser	nt? Yes <u>/</u> No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	ring well perial photos, previous inspections)	if available:			
Besonibe Nesoraea Bata (stream gaage, monite	ming well, derial priotos, previous inspections,	, ii available.			
Remarks:					

Sampling Point: W-54-PFO

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (1 lot size.		Species?		Number of Dominant Species
1. Quercus imbricaria	25		FAC	That Are OBL, FACW, or FAC:6 (A)
2. Acer rubrum	5		F <u>AC</u>	Total Number of Dominant
3. Rhus typhina	5		UPL	Species Across All Strata: 6 (B)
4				
5		-		Percent of Dominant Species That Are OBL FACW or FAC: 100% (A/B)
				That Are OBL, FACW, or FAC: 100% (A/B)
6		-		Prevalence Index worksheet:
7	35			Total % Cover of: Multiply by:
500/ of total occurs 17 F		= Total Co		OBL species x 1 =
50% of total cover: 17.5	20% of	total cover	:	FACW species x 2 =
Sapinig/Sitrub Stratum (Flot Size)	10		E 4 0) 4 /	
1. Cornus amomum	10		F <u>ACW</u>	FAC species x 3 =
2. Carpinus caroliniana	5		F <u>AC</u>	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6		-		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover	:3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5'				Problematic Hydrophytic Vegetation¹ (Explain)
1. Impatiens capensis	25		FACW	Problematic Hydrophytic Vegetation (Explain)
2. Pilea pumila	15		FACW	4
3. Symplocarpus foetidus	15	<b>/</b>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Microstegium vimineum	10		FAC	
5. Rudbeckia laciniata	10	-	FACW	Definitions of Four Vegetation Strata:
6. Lysimachia nummularia	10	-	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	85	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5	20% of	total cover	: <u>17</u>	Was deaders Allows devices assets the cool of the
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				Holgric.
2.				
-				
3				
4				Hydrophytic
5				Vegetation Present? Yes ✔ No
0		= Total Co	_	Present? Yes No
50% of total cover: 0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-54-PFO

SOIL

Depth	ription: (Describe to Matrix	to the dept		x Features	ator or commi	i the absence o	or indicator	·S.)	
(inches)	Color (moist)	%	Color (moist)	<u>% Ty</u>	pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-5	10YR 4/2	90	7.5YR 4/4	10 C	M/PL	SaCL			
5-16	10YR 4/1	85	7.5YR 4/4	<u>15</u> C	M/PL	SaCL			
	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: PL			.i'. 0 . !!3
lydric Soil			Davis Confess	(07)				oblematic Hy	
Histosol	(A1) pipedon (A2)		Dark Surface		8) <b>(MLRA 147</b> ,		•	10) <b>(MLRA 1</b> 4 Redox (A16)	47)
Black Hi				irface (S9) <b>(ML</b>	, .		(MLRA 147		
	n Sulfide (A4)			ed Matrix (F2)	,,			odplain Soils (	F19)
	d Layers (A5)		Depleted Ma				(MLRA 136		,
	ick (A10) (LRR N)		Redox Dark					Dark Surface	(TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dar	rk Surface (F7)		Ot	her (Explain	n in Remarks)	
	ark Surface (A12)		Redox Depre	ssions (F8)					
	lucky Mineral (S1) <b>(L</b>	.RR N,		ese Masses (F	12) <b>(LRR N,</b>				
	A 147, 148)		MLRA 13	•		3			
	Gleyed Matrix (S4)			ice (F13) (MLR				drophytic vege	
	ledox (S5)				F19) <b>(MLRA 1</b> 4			ogy must be p	
	Matrix (S6)  _ayer (if observed):		Red Parent N	nateriai (F21) <b>(</b>	MLRA 127, 147	r) unie	ess disturbe	d or problema	ATIC.
Type:	_ayer (ii observed):								
	ches):		<del></del>			Hydric Soil F	Present?	Yes 🗸	No
temarks:			<u> </u>			, , , , , ,			

Wetland ID W-54-PFO Cowardin Code PFO Date 08/27/19



Photograph Number <u>245</u>
Photograph Direction NE

Comments:



Photograph Number <u>246</u>
Photograph Direction East

Comments:



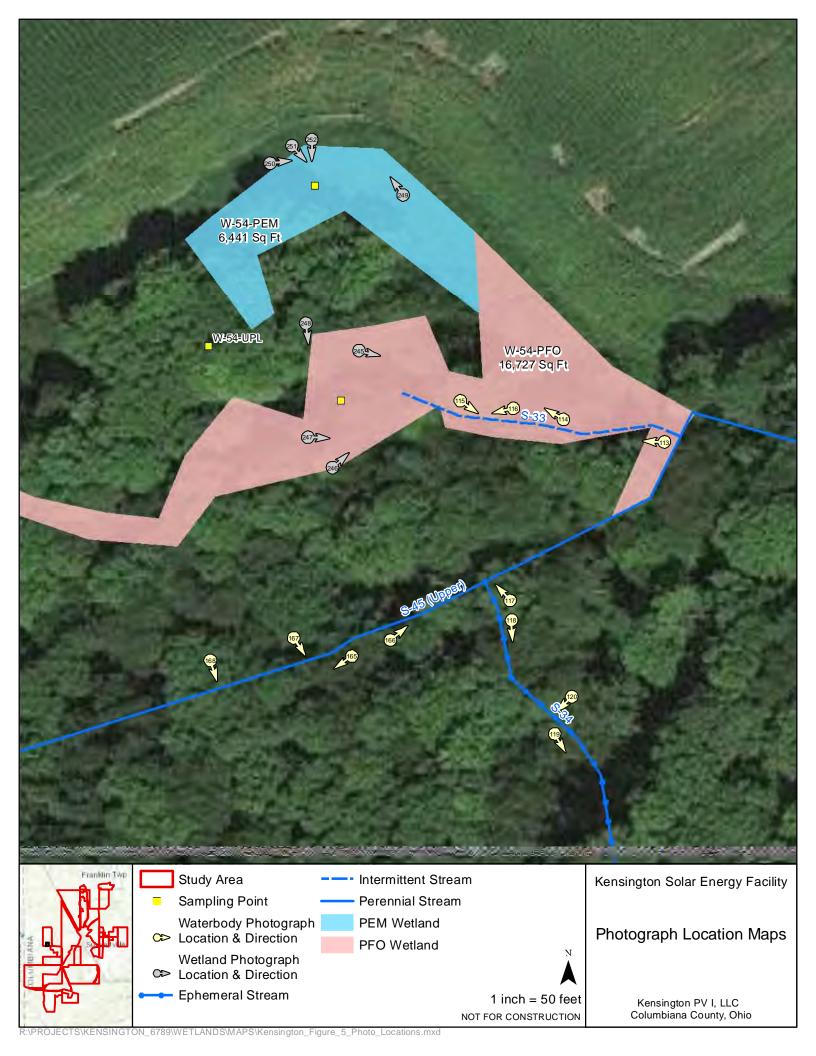
Photograph Number 247
Photograph Direction South

Comments:



Photograph Number 248

Photograph Direction East



Project/Site: Kensington	City/County: C	olumbiana	Sampling Date: 08/27/19
Project/Site: Kensington Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-54-UPL
Investigator(s): CV, JL, KP			
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR or MLRA): LRRN	1 at: 40 680623		Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to	3 percent slopes occasionally	tong:	Datum: 14 (D 00
Are climatic / hydrologic conditions on the site type	·		
Are Vegetation, Soil, or Hydrology			"present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sampling p	oint locations, transect	ts, important features, etc.
Hydrophytic Vegetation Present? Yes _	V No Is the S		
	No V	ampled Area	🗸
	No within a	Wetland? Yes	No
Demontos		Motor Typo:	<del>-</del>
Cowardin Code: UPLAND	HGM: V	Vater Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface So	
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Livi	_	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4		n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled		
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)			ic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	, ,
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	Depth (inches):	Wetland Hydrology Prese	ent? Yes No ✔
(includes capillary fringe)		, ,	
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous insp	pections), if available:	
Remarks:			

Sampling Point: W-54-UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tice otratam (Fiot Size.	% Cover	Species?	<u>Status</u>	Number of Dominant Species	2	(4)
				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	0	
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species	4000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6		-		Prevalence Index worksheet:		
7	0		- ——	Total % Cover of:	Multiply by:	
50% of total cover:0		= Total Cov		OBL species x 1		
Sapling/Shrub Stratum (Plot size: 15' )	20% 01	total cover		FACW species x 2		
				FAC species x 3		
1				FACU species x 4		
2				UPL species x 5		
3				Column Totals: (A)		
4		-				
5				Prevalence Index = B/A =		_
6			· ——	Hydrophytic Vegetation Indicate		
7		-		1 - Rapid Test for Hydrophyti	c Vegetation	
8				✓ 2 - Dominance Test is >50%		
9	_	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover: 0				4 - Morphological Adaptations	s <sup>1</sup> (Provide sup	porting
Herb Stratum (Plot size: 5' )	2070 01	10101 00101	-	data in Remarks or on a s	eparate sheet)	
1. Echinochloa crus-galli	15	~	FAC	Problematic Hydrophytic Veg	etation <sup>1</sup> (Expla	in)
2 Andropogon gerardii	40	~	FAC			
3				<sup>1</sup> Indicators of hydric soil and wetla		must
4				be present, unless disturbed or pr		
5				Definitions of Four Vegetation S	strata:	
6				Tree - Woody plants, excluding v		
7				more in diameter at breast height height.	(DBH), regard	less of
8						
9.				Sapling/Shrub – Woody plants, ethan 3 in. DBH and greater than of		
10			<u> </u>	m) tall.	7 04001 10 0.20	, 10 (1
11.				Herb – All herbaceous (non-wood	du) plante roge	rdloss
	55	= Total Cov	/er	of size, and woody plants less that		iuless
50% of total cover: 27.5				Mandy vine All woody vines or	eastar than 2 20	) ## im
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines gr height.	eater than 3.28	sπin
1				<u> </u>		
2						
3						
4				Hydrophytic		
5				Vegetation		
	0:	= Total Cov	/er	Present? Yes	No	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Depth	Matrix	to the depth	needed to document the Redox Feature		i the absence	ormaicato	ors.)	
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100						
				·				
	-			·	-			
		<del></del>						
	-				-			
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=R	educed Matrix, MS=Maske	d Sand Grains.	<sup>2</sup> Location: P	L=Pore Linii	ng, M=Matrix	
Hydric Soil I	ndicators:				Indica	ators for Pr	oblematic H	ydric Soils³:
Histosol	(A1)		Dark Surface (S7)		2	cm Muck (A	A10) <b>(MLRA</b>	147)
Histic Ep	pipedon (A2)		Polyvalue Below Surfa	ace (S8) (MLRA 147,	. <b>148)</b> C	Coast Prairie	Redox (A16)	)
Black His	stic (A3)		Thin Dark Surface (S9	) (MLRA 147, 148)		(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleyed Matrix	(F2)	P		odplain Soils	s (F19)
	l Layers (A5)		Depleted Matrix (F3)			(MLRA 13		
	ck (A10) (LRR N)		Redox Dark Surface (	•		•	Dark Surfac	. ,
	Below Dark Surface	e (A11)	Depleted Dark Surface		c	Other (Explai	in in Remarks	s)
	ark Surface (A12)	DD N	Redox Depressions (F					
	lucky Mineral (S1) <b>(L</b>	.KK N,	Iron-Manganese Mass	ses (F12) <b>(LRR N,</b>				
	<b>147, 148)</b> sleyed Matrix (S4)		MLRA 136) Umbric Surface (F13)	(MI DA 136 122)	<sup>3</sup> Ind	licators of h	drophytic ve	actation and
	edox (S5)		Piedmont Floodplain S				logy must be	
	Matrix (S6)		Red Parent Material (F				ed or problen	
	ayer (if observed):		rear arent material (i	21) (MEICA 121, 141		ilogo diotarbi	ca or problem	natio.
Type:								
	ches):		<del>_</del>		Hydric Soil	Drocont2	Yes	No 🗸
	Jiles)		_		Tiyunc 30ii	i i i e se i i i :	163	
Remarks:								

Project/Site: Kensington	City/County: Col	umbiana	Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-55-PEM
	Section, Township		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave		
Subregion (LRR or MLRA): LRRN			Datum: NAD 83
Soil Map Unit Name: Westmoreland-Cosho	cton silt loams, 8 to 15 percent	slopes NWI classific	cation: N/A
Are climatic / hydrologic conditions on the site typ	cal for this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach si			
Hydrophytic Vegetation Present? Yes	No Is the Sam		
	No lis the Sam		No
Wetland Hydrology Present? Yes _	No within a W	etiano? res	NO
Remarks: Cowardin Code: PEM	HGM: Slope Wa	ter Type: RPWWN	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa	atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living		` '
Water Marks (B1)	Presence of Reduced Iron (C4)	· ·	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled So		
Drift Deposits (B3)	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		Geomorphic Shallow Aqu	Position (D2)
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	. , ,
Field Observations:		<u> </u>	
	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Preser	nt? Yes ✔ No
(includes capillary fringe)		, ,	
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	tions), if available:	
Remarks:			

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15')

2. Polygonum sagittatum

Tree Stratum (Plot size: \_\_

3. Solidago altissima

4 Euthamia graminifolia

5. Impatiens capensis

\_\_\_)

4.\_\_\_\_\_\_ \_\_\_\_ \_\_\_\_\_

50% of total cover: \_\_\_0

	Sampling Poi	nt: <u>W-55-PE</u>	M
	Dominance Test worksheet:		
	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
	Total Number of Dominant Species Across All Strata:	1	(B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)
-	Prevalence Index worksheet:		
	Total % Cover of:	Multiply by:	
	OBL species x 1	=	
-	FACW species x 2	2 =	_
	FAC species x 3	3 =	_
	FACU species x 4	ł =	_
	UPL species x 5	5 =	_
	Column Totals: (A)		(B)
-	Prevalence Index = B/A =		_
-	Hydrophytic Vegetation Indicat	ors:	
-	1 - Rapid Test for Hydrophyti	c Vegetation	
-	✓ 2 - Dominance Test is >50%		
-	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	4 - Morphological Adaptation	s1 (Provide sup	porting
-	data in Remarks or on a s	eparate sheet)	
-	Problematic Hydrophytic Veg	etation <sup>1</sup> (Expla	iin)
-	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pr	roblematic.	must
	Definitions of Four Vegetation S	Strata:	

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 95 = Total Cover of size, and woody plants less than 3.28 ft tall. 50% of total cover: 47.5 20% of total cover: 19 Woody vine - All woody vines greater than 3.28 ft in Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_) height. Hydrophytic Vegetation Yes V No \_\_\_\_ 0 = Total Cover Present? 50% of total cover: 0 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.)

% Cover Species? Status

0 \_\_ = Total Cover

0 = Total Cover

10

10

20% of total cover: 0

10 FACW

**FACW** 

FACU

height.

OBL

FAC

50% of total cover: 0 20% of total cover: 0

Depth	ription: (Describe t Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<del></del>	Remarks	
0-16	10YR 4/2	90	7.5YR 4/4	10	С	M/PL	CL			
								·		
			_					· -		
		<del></del>						· ———		
								·		
Type: C=Co	oncentration, D=Depl	etion. RM=F	Reduced Matrix. MS	S=Masked S	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lin	ing, M=Matrix.	
lydric Soil I		<u> </u>	toudoud manny me		<u> </u>				roblematic Hy	
Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	pipedon (A2)		Polyvalue Be	. ,	(S8) (N	/ILRA 147,			e Redox (A16)	
Black Hi			Thin Dark Su				, <u> </u>	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleye		2)		[	Piedmont Fl	oodplain Soils	(F19)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)				(MLRA 13		
	ick (A10) (LRR N)		Redox Dark S	, ,					v Dark Surface	
	Below Dark Surface	e (A11)	Depleted Dar				_ (	Other (Expla	in in Remarks	)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) <b>(</b>	LRR N,				
	<b>147, 148)</b> sleyed Matrix (S4)		MLRA 136 Umbric Surfa	•	II DA 43	e 122\	3 <sub>ln</sub> ,	diantara of b	ydrophytic veg	rotation and
	edox (S5)		Piedmont Flo						ology must be p	
	Matrix (S6)		Red Parent N						ed or problem	
	_ayer (if observed):		Red r drent n	natoriai (i Z	·		, ui	iicoo diotare	rea or problem	allo.
Type:										
•••	ches):						Hydric Soi	I Present?	Yes_	No
	Jiles)		<del></del>				Tiyunc 301	ii i ieseiit:	163	
Remarks:										

Wetland ID W-55-PEM Cowardin Code PEM Date 08/27/19



Photograph Number <u>257</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>258</u>
Photograph Direction <u>SW</u>

Comments:



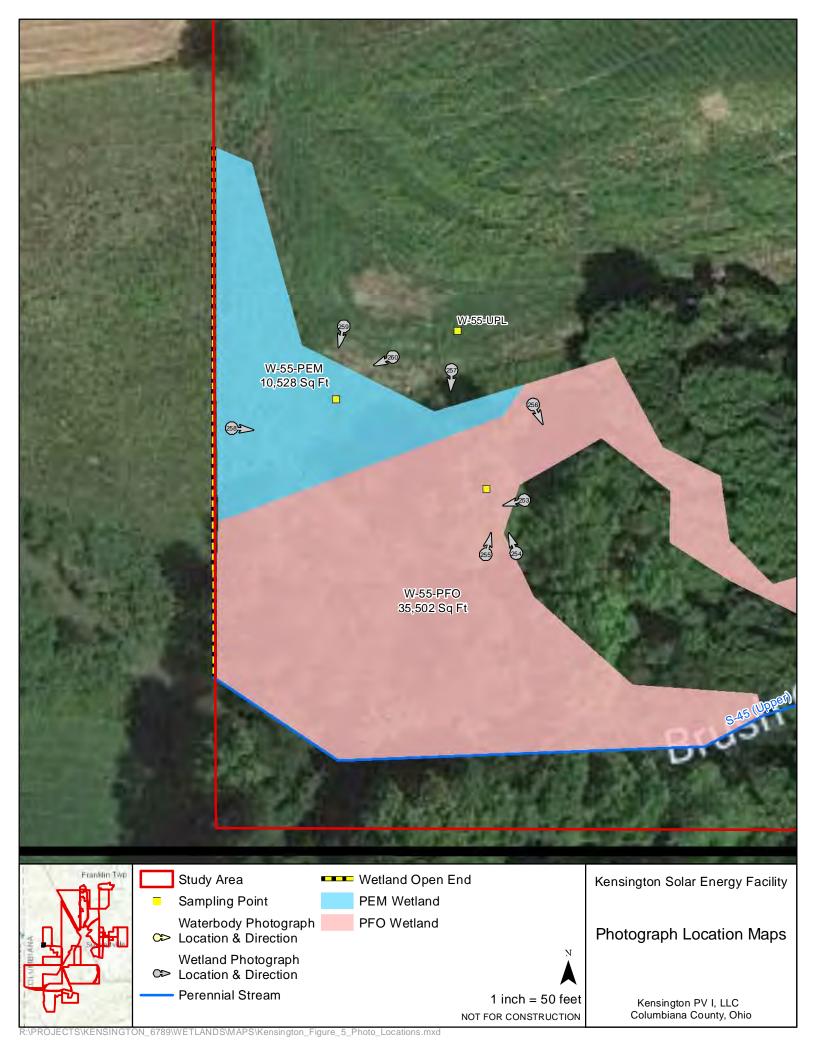
Photograph Number 259
Photograph Direction South

Comments:



Photograph Number 260

Photograph Direction East



Project/Site: Kensington		City/C	ounty: Columbiana		Sampling Date: 08/27/19
Applicant/Owner: Kensington PV I, LLC	2				Sampling Point: W-55-PFO
Investigator(s): CV, JL, KP		Section	on, Township, Range: S		
Landform (hillslope, terrace, etc.): Floodp	lain				Slope (%): 0
Subregion (LRR or MLRA): LRRN	Lat				Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, (	to 3 pe	ercent slopes, occa	asionally flooded	NWI classific	eation: PSS1/EM1C
Are climatic / hydrologic conditions on the si	te typical f	or this time of year? Y	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydr	ology	significantly distur	bed? Are "Norma	l Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydr					
SUMMARY OF FINDINGS – Attac	h site n	nap showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	∕es_ ✓	No			
		No	Is the Sampled Area	V V	No
	es 🗸	No	within a Wetland?	res	NO
Remarks: Cowardin Code: PFO		HGM: Riverine	Water Type:	RPWWD	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is requ	ired: chec	ck all that apply)		Surface Soil	
Surface Water (A1)		True Aquatic Plants (	B14)		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Ode		<u>✓</u> Drainage Pa	
Saturation (A3)	<u> </u>		es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced	=	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	✓ Crayfish Burn	rows (C8)
✓ Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)					Position (D2)
Inundation Visible on Aerial Imagery (F	37)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? Yes	No.	_ Depth (inches):			
		_ Depth (inches):			
		Depth (inches):		Hydrology Preser	nt? Yes 🗸 No
(includes capillary fringe)		- , , , , , _			it: 165 <u> </u>
Describe Recorded Data (stream gauge, m	nonitoring	well, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					

Sampling Po	int·W-55-PFO
-------------	--------------

Troo Stratum (Plot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Fiot Size)		Species?		Number of Dominant Species
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC:5 (A)
2				
				Total Number of Dominant Species Across All Strata: 5 (B)
3				Species Across All Strata:5 (B)
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				
7				Prevalence Index worksheet:
	30	= Total Co	ver	Total % Cover of: Multiply by:
50% of total cover: 15		f total cover	^	OBL species x 1 =
451	20 /6 01	i total covel		FACW species x 2 =
Sapinig/Sinub Stratum (Flot size)	40		E 4 0\4/	
1. Cornus amomum	10		FACW	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
_				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
0				✓ 2 - Dominance Test is >50%
9	10	Tatel C		3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:5_	20% of	total cover	r: <u>           2                         </u>	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				
1. Impatiens capensis	30	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Leersia virginica	15	<b>✓</b>	OBL	
3. Scirpus atrovirens	15		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Microstegium vimineum	10		FAC	be present, unless disturbed or problematic.
· ·			<u>rac</u>	Definitions of Four Vegetation Strata:
5				<b>-</b> W
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				no.gna
	-			Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	70	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		f total cover	4 4	
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
o	0	T-1-10-		Present? Yes V No
500% of total account		= Total Co	_	····
50% of total cover:0		f total cover	r:	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix	0/		x Features	Typo <sup>1</sup>	Loc²	Tovturo		Domos!	
(inches)	Color (moist) 10YR 4/2	<u>%</u>	Color (moist) 7.5YR 4/4	· ·	Type <sup>1</sup>	M/PL	Texture SaCL		Remarks	)
0-5		90			<u>C</u>					
5-16	10YR 4/1	<u>85</u>	7.5YR 4/4	<u>15</u>	С	M/PL	SaCL_			
		<u> </u>								
	-									
Type: C=C	oncentration, D=Depl	etion. RM=	Reduced Matrix. MS	S=Masked S	and Gra	ins.	<sup>2</sup> Location: P	L=Pore Lin	ing, M=Matrix	ζ.
	Indicators:		, , , , , , , , , , , , , , , , , , , ,							lydric Soils <sup>3</sup> :
_ Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	A10) <b>(MLRA</b>	147)
	pipedon (A2)		Polyvalue Be		(S8) <b>(M</b>	LRA 147,	<b>148)</b> C	oast Prairie	Redox (A16	5)
_ Black Hi			Thin Dark Su			47, 148)		(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		2)		P		oodplain Soil	s (F19)
	Layers (A5)		Depleted Mar				V	(MLRA 13		· (TE40)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(Δ11)	Redox Dark S Depleted Dar					•	v Dark Surfac in in Remark	. ,
	ark Surface (A12)	, (, (, , , ,	Redox Depre				_ ~	tiloi (Explo	iii iii redinane	.0)
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan			.RR N,				
-	A 147, 148)		MLRA 13							
	Gleyed Matrix (S4)		Umbric Surfa							egetation and
-	ledox (S5)		Piedmont Flo					-	logy must be	
	Matrix (S6)		Red Parent N	Material (F21	1) <b>(ML</b> R	127, 147	<b>')</b> un	ess disturb	ed or probler	matic.
	_ayer (if observed):									
Type:			<u></u>					<b>5</b> 40		
Depth (in	ches):						Hydric Soil	Present?	Yes	_ No
emarks:										

Wetland ID W-55-PFO Cowardin Code PFO Date 08/27/19



Photograph Number <u>253</u>
Photograph Direction West

Comments:



Photograph Number <u>254</u>
Photograph Direction NW

Comments:



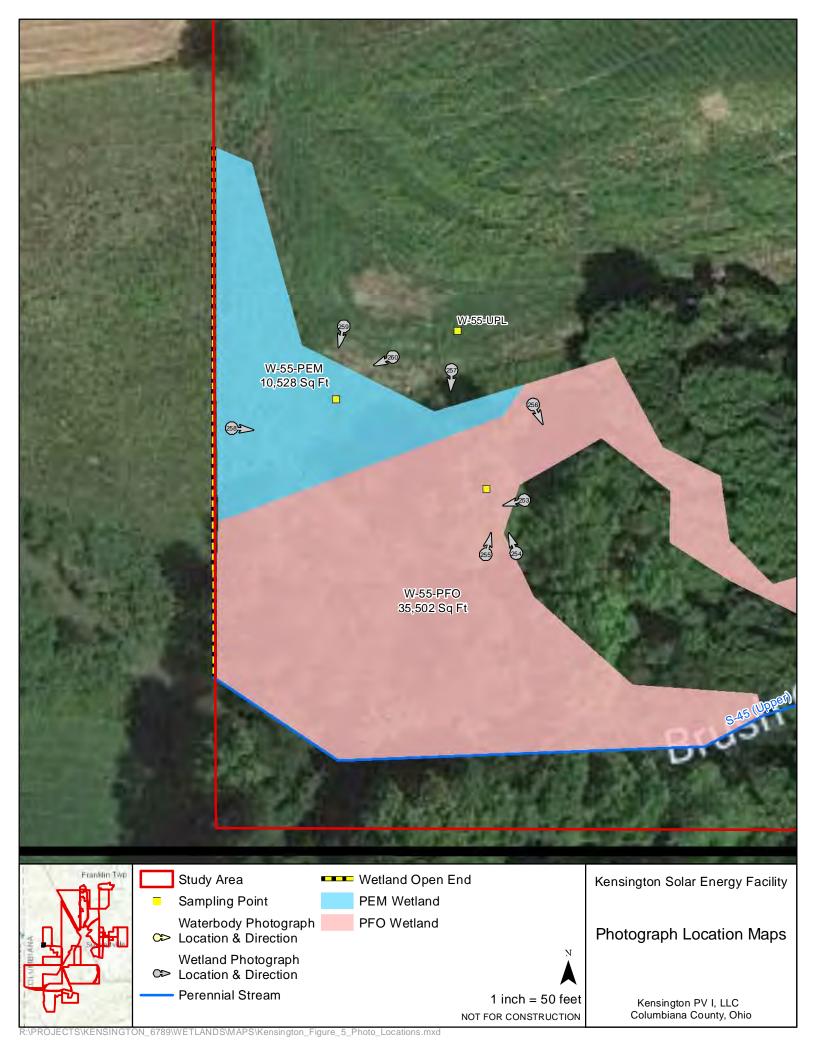
Photograph Number 255

Photograph Direction SE

Comments:



Photograph Number 256
Photograph Direction North



Project/Site: Kensington	City/County: Cc	City/County: Columbiana				
Applicant/Owner: Kensington PV I, LLC		State: OH				
		Section, Township, Range: S22 T14N R4W				
Landform (hillslope, terrace, etc.): Hillslope		Local relief (concave, convex, none): Linear				
Subregion (LRR or MLRA): LRRN			Datum: NAD 83			
Soil Map Unit Name: Westmoreland-Cos	shocton silt loams, 8 to 15 pe	rcent slopes NWI classif	fication: N/A			
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes	No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrolog	gy significantly disturbed?	Are "Normal Circumstances'	present? Yes V No No			
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach s	··	•	•			
Lindranhutia Vagatatian Present?	No. V					
	No.	mpled Area				
	No within a	Wetland? Yes	No			
Remarks: Cowardin Code: UPLAND		ater Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)			
Primary Indicators (minimum of one is required	; check all that apply)	Surface So	il Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage P	atterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on Living	Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4)	· ·	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled		Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			rphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aq				
Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopog	raphic Relief (D4)			
Field Observations:		FAC-Neutr	ai rest (D3)			
	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Wetland Hydrology Present? Yes No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspe	ctions), if available:				
Remarks:						

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-55-UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.		Species?		Number of Dominant Species	1	(0)
1				That Are OBL, FACW, or FAC:	'	(A)
2				Total Number of Dominant	2	(5)
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	50%	
5				That Are OBL, FACW, or FAC:	<del></del>	(A/B)
6				Prevalence Index worksheet:		
7	0 .	= Total Cov		Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2	:=	_
1				FAC species x 3	i =	_
2				FACU species x 4	· =	_
3				UPL species x 5	i =	_
4				Column Totals: (A)		(B)
5						
6				Prevalence Index = B/A = _		
7				Hydrophytic Vegetation Indicate		
8				1 - Rapid Test for Hydrophytic	c Vegetation	
9.		-		2 - Dominance Test is >50%		
	^	= Total Cov	/er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	1	
50% of total cover:0				4 - Morphological Adaptations		
Herb Stratum (Plot size: 5' )				data in Remarks or on a s		
1. Rumex crispus	10		FACW	Problematic Hydrophytic Veg	etation' (Expla	iin)
2. Echinochloa crus-galli	35	~	FAC			
3. Setaria viridis	10		FACU	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pr		must
4. Glechoma hederaceae	45	~	FACU	Definitions of Four Vegetation S		
5				Definitions of Four Vegetation s	oliala.	
6				Tree – Woody plants, excluding v		
7				more in diameter at breast height height.	(DBH), regard	iess of
8						
9				Sapling/Shrub – Woody plants, ethan 3 in. DBH and greater than o	excluding vines	s, less R ft (1
10				m) tall.	1 04001 10 0.20	, , , ,
11.				Herb – All herbaceous (non-wood	tu) plante roac	rdlocc
	100	= Total Cov	er	of size, and woody plants less that		liuless
50% of total cover: 50		total cover		N/a a decesiona — All con a decesiona a con		O 44 :
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines graheight.	eater than 3.20	S IL III
1				<u> </u>		
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	er er	Present? Yes	No 🔽	
50% of total cover:0	20% of	total cover	0			
Remarks: (Include photo numbers here or on a separate s	heet.)			•		

Depth	Matrix		Redox Fe		. 2	<b>T</b>		<b>.</b>		
(inches)	Color (moist)	<u>%</u>	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remark	KS	
0-12	10YR 4/4	100								
-							-			
		etion, RM=	Reduced Matrix, MS=Ma	asked Sand Gra	ains.	<sup>2</sup> Location: P				•
dric Soil I	ndicators:					Indica	ators for Pi	oblematic	Hydric So	oils³:
_ Histosol			Dark Surface (S7				cm Muck (A			
	ipedon (A2)		Polyvalue Below			<b>148)</b> C	oast Prairie		16)	
_ Black Hi			Thin Dark Surface		47, 148)		(MLRA 14			
	n Sulfide (A4)		Loamy Gleyed Ma			P	iedmont Flo		oils (F19)	
<del></del>	Layers (A5)		Depleted Matrix (				(MLRA 13			
	ck (A10) (LRR N)	(4.44)	Redox Dark Surfa				ery Shallow			)
	Below Dark Surface	e (A11)	Depleted Dark Su				ther (Expla	ın ın Rema	rks)	
	irk Surface (A12)	DD N	Redox Depressio		DD N					
	lucky Mineral (S1) <b>(L</b>	.KK N,	Iron-Manganese	viasses (F12) (I	LKK N,					
	147, 148) leyed Matrix (S4)		MLRA 136) Umbric Surface (I	=12) /MI DA 12	6 422)	3Ind	icators of h	udrophytic y	voactation	han
	edox (S5)		Piedmont Floodpl				tland hydro		-	
	Matrix (S6)		Red Parent Mate				less disturb			.,
	ayer (if observed):		Ned i alent Mater	iai (i Z i) (WLIV	A 121, 141	<u>)</u>	iess distuib	ed of proble	ematic.	
	ayer (ii observea).									
Type:							<b>5</b> 40	.,		~
Depth (inc	ches):					Hydric Soil	Present?	Yes	No _	
emarks:										

Project/Site: Kensington		City/County: Columbiana			Sampling Date: 08/28/19			
Applicant/Owner: Kensington PV I, LI	State: OH							
		Section, Township, Range: S22 T14N R4W						
Landform (hillslope, terrace, etc.): Flood	plain				Slope (%): 0-5			
Subregion (LRR or MLRA): LRRN	I at				Datum: NAD 83			
Soil Map Unit Name: Orrville silt loam.								
Are climatic / hydrologic conditions on the	site typical f	or this time of year? Y	res	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hy		•						
Are Vegetation, Soil, or Hy		= -						
SUMMARY OF FINDINGS – Atta								
	Yes 🗸				<del>-</del>			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes		Is the Sampled Area					
Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No			
Remarks: Cowardin Code: PEM		HGM: Riverine	Water Type:	RPWWD				
Mowed field								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is re-	quired; chec	ck all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Pa	tterns (B10)			
Saturation (A3)	<u> </u>	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	ines (B16)			
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C	27)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery	(B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	. 4							
		_ Depth (inches):						
		_ Depth (inches):			_			
Saturation Present? Yes (includes capillary fringe)	_ No	_ Depth (inches):	Wetland F	Hydrology Present? Yes No				
Describe Recorded Data (stream gauge,	monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
Nomano.								

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-57-PEM1

Troo Stratum (Plot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	4	
1				That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	1	(B)
4						(-)
				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC:	10070	(A/B)
6				Prevalence Index worksheet:		
7					Maritim Ira hara	
	0	= Total Cov	er	Total % Cover of:		
50% of total cover:0				OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1				FAC species x 3	3 =	_
				FACU species x 4	4 =	
2				UPL species x :		
3						
4				Column Totals: (A)	<i></i>	_ (D)
5				Prevalence Index = B/A =		
6						_
7				Hydrophytic Vegetation Indicat		
				1 - Rapid Test for Hydrophyt		
8				✓ 2 - Dominance Test is >50%	•	
9	_			3 - Prevalence Index is ≤3.0 <sup>1</sup>	ı	
500/ (/ / )		= Total Cov		4 - Morphological Adaptation	ns <sup>1</sup> (Provide sup	porting
50% of total cover: 0	20% of	total cover:	<u> </u>	data in Remarks or on a s	separate sheet)	
Tierb Stratum (Fiot size)	0.5	,	EAC\A/	Problematic Hydrophytic Veg	netation <sup>1</sup> (Expla	in)
1. Phalaris arundinacea	85		FACW	resistant nyaropinyas veg	Jotation (Explai	,
2				1		
3				<sup>1</sup> Indicators of hydric soil and wetlebe present, unless disturbed or p		nust
4						
5				Definitions of Four Vegetation	Strata:	
				Tree - Woody plants, excluding v	vines, 3 in. (7.6	cm) or
6				more in diameter at breast height	t (DBH), regardl	ess of
7				height.		
8				Sapling/Shrub – Woody plants,	excluding vines	, less
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb – All herbaceous (non-wood	dv) plants rega	rdless
	85	= Total Cov	er	of size, and woody plants less that		. 4.000
50% of total cover: 42.5						
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines gr	reater than 3.28	ft in
				height.		
1						
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	er	Present? Yes	No	
50% of total cover:0	20% of	total cover:	0			
Remarks: (Include photo numbers here or on a separate s	heet.)					
Manager Control of Control of Control						
Vegetation disturbed from recent mowing						

Depth	ription: (Describe	io ilio dopi		x Features	0. 0. 00		o. maioaic	,	
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type	e <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-4	10YR 4/2	100				SIL			
4-14	10YR 4/1	80	7.5YR 4/6	20 C	M/PL	SIL			
							-		
	-					-			
Type: C=Co	oncentration, D=Dep	letion. RM=	Reduced Matrix, MS	S=Masked Sand	Grains.	<sup>2</sup> Location: Pl	Pore Lini	ng, M=Matrix.	
	Indicators:		readood mann, me	- maonoa oana	<u> </u>			roblematic Hy	dric Soils <sup>3</sup> :
_ Histosol			Dark Surface	(S7)				ء A10) <b>(MLRA 1</b>	
	oipedon (A2)			low Surface (S8	(MLRA 147,			Redox (A16)	,
 Black Hi				rface (S9) (MLR	•	, <u> </u>	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleye			Pi	iedmont Flo	oodplain Soils	(F19)
	d Layers (A5)		Depleted Mat	trix (F3)			(MLRA 13		
	ick (A10) (LRR N)		Redox Dark S	, ,			•	Dark Surface	. ,
	d Below Dark Surface	e (A11)		k Surface (F7)		0	ther (Expla	in in Remarks)	)
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre		o) /I DD N				
	iucky Mineral (ST) <b>(L</b> <b>\ 147, 148)</b>	.KK N,	MLRA 130	ese Masses (F12	2) (LKK N,				
	Gleyed Matrix (S4)			ce (F13) <b>(MLRA</b>	136 122)	<sup>3</sup> Indi	icators of h	ydrophytic veg	etation and
	tedox (S5)			odplain Soils (F				logy must be p	
	Matrix (S6)			//aterial (F21) <b>(M</b>				ed or problema	
	_ayer (if observed):			. , ,	<u> </u>			·	
Type:									
Depth (inc	ches):					Hydric Soil	Present?	Yes 🗸	No
Remarks:								<u> </u>	· · · · ·

Wetland ID W-57-PEM1 Cowardin Code PEM Date 08/28/19



Photograph Number <u>261</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>262</u>
Photograph Direction East

Comments:



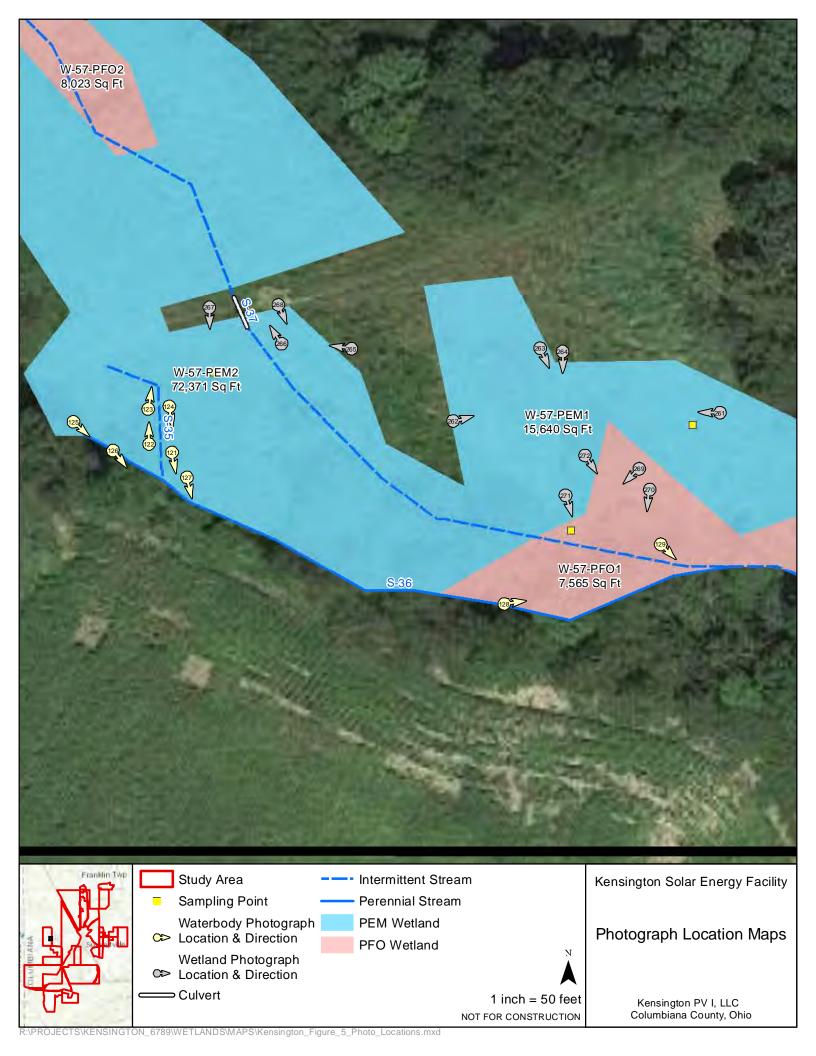
Photograph Number 263
Photograph Direction West

Comments:



Photograph Number 264
Photograph Direction SE

Thotograph Birection \_\_



Project/Site: Kensington		City/C	ounty: Columbiana		Sampling Date: 08/28/19			
Applicant/Owner: Kensingto	on PV I, LLC	State: OH Sampling Point: W-57-PE						
roject/Site: Kensington  City/County: Columbiana  Sampling Date: 08/28/19  State: OH  Sampling Point: W-57-P  Section, Township, Range: S22 T14N R4W								
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0-5								
Subregion (LRR or MLRA): L					Datum: NAD 83			
Soil Map Unit Name: Orrville		rcent slopes, occa	sionally flooded	NWI classifica	ation: PSS1/EM1C			
Are climatic / hydrologic condi								
· · · · ·		· ·			resent? Yes No			
Are Vegetation, Soil								
			•		important features, etc.			
			, , , , , , , , , , , , , , , , , , ,	,,				
Hydrophytic Vegetation Pres			Is the Sampled Area					
Hydric Soil Present?	Yes	_ No	within a Wetland?	Yes No				
Wetland Hydrology Present?		_ No						
Remarks: Cowardin C	ode: PEM	HGM: Riverine	Water Type:	RPWWD				
Mowed field								
HADBOLOCA								
HYDROLOGY Wetland Hydrology Indicat	ore:			Socondary Indicat	ors (minimum of two required)			
, ,,		call that apply		-	,			
Primary Indicators (minimum	•		24.4\	Surface Soil (				
Surface Water (A1)		True Aquatic Plants (E Hydrogen Sulfide Odd			etated Concave Surface (B8)			
High Water Table (A2) Saturation (A3)			es on Living Roots (C3)	Drainage Patt Moss Trim Lir				
Water Marks (B1)		Presence of Reduced	=		Vater Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction						
Drift Deposits (B3)		Thin Muck Surface (C		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rem		Saturation visible on Aerial imagery (C9) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	_	` '	,	Geomorphic Position (D2)				
Inundation Visible on Ae	erial Imagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (I	B9)		Microtopographic Relief (D4)					
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes No	Depth (inches):						
Water Table Present?	Yes No	Depth (inches):						
Saturation Present?	Yes No	Depth (inches):	Wetland H	lydrology Present	? Yes <u>✓</u> No			
(includes capillary fringe)  Describe Recorded Data (str	ream gauge monitoring v	vell aerial photos prev	vious inspections) if ava	ilable:				
Describe Necolded Data (Sti	eam gauge, monitoring w	veii, aeriai priotos, pre	vious irispections), ii ava	illable.				
Remarks:								

Sampling Boldt, M-21-1 Figir	Sampling	Point: W-57-PEM2
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Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.		Species?		Number of Dominant Species	3	(0)
1				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	4	(5)
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	75%	
5				That Are OBL, FACW, or FAC:	1370	(A/B)
6		ī		Prevalence Index worksheet:		
7	0 .	= Total Cov	/or	Total % Cover of:	Multiply by:	
50% of total cover: 0			_	OBL species x 1	l =	_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2	2 =	_
1. Rubus allegheniensis	10	<b>✓</b>	FACU	FAC species x 3	3 =	_
2				FACU species x 4	4 =	_
3				UPL species x 5		
4				Column Totals: (A)		
5						
6				Prevalence Index = B/A =		
7				Hydrophytic Vegetation Indicat		
8				1 - Rapid Test for Hydrophyti	-	
9				✓ 2 - Dominance Test is >50%		
<u> </u>	40	= Total Cov	/or	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover:5				4 - Morphological Adaptation		
Herb Stratum (Plot size: 5' )				data in Remarks or on a s	•	
1. Phalaris arundinacea	30	<b>✓</b>	FACW	Problematic Hydrophytic Veg	jetation¹ (Expla	iin)
2. Impatiens capensis	20	~	FACW			
3. Eutrochium maculatum	15	-	FACW	<sup>1</sup> Indicators of hydric soil and wetla		must
4. Polygonum sagittatum	25		OBL	be present, unless disturbed or pr		
5. Leersia oryzoides	10	-	OBL	Definitions of Four Vegetation	Strata:	
6		-	. ===	Tree - Woody plants, excluding v		
7		-		more in diameter at breast height height.	(DBH), regard	less of
8				noight.		
9				Sapling/Shrub – Woody plants, ethan 3 in. DBH and greater than c	excluding vines	s, less
10			·	m) tall.	n equal to 5.20	311 (1
11.		-		,		
	100	= Total Cov	/er	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that		ardless
50% of total cover:50		total cover	~~			
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines gr height.	eater than 3.28	3 ft in
1				noight		
2.						
3						
4.				Hadronbudio		
5.				Hydrophytic Vegetation		
	0 ,	= Total Cov	/er	Present? Yes	No	
50% of total cover:0	20% of	total cover	0			
Remarks: (Include photo numbers here or on a separate s	heet.)			l		

Depth	ription: (Describe	io ilio dopi		x Features	0. 0. 00		o. maioaic	,	
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type	e <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-4	10YR 4/2	100				SIL			
4-14	10YR 4/1	80	7.5YR 4/6	20 C	M/PL	SIL			
							-		
	-					-			
Type: C=Co	oncentration, D=Dep	letion. RM=	Reduced Matrix, MS	S=Masked Sand	Grains.	<sup>2</sup> Location: Pl	Pore Lini	ng, M=Matrix.	
	Indicators:		readood mann, me	- maonoa oana	<u> </u>			roblematic Hy	dric Soils <sup>3</sup> :
_ Histosol			Dark Surface	(S7)				ء A10) <b>(MLRA 1</b>	
	oipedon (A2)			low Surface (S8	(MLRA 147,			Redox (A16)	,
 Black Hi				rface (S9) (MLR	•	, <u> </u>	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleye			Pi	iedmont Flo	oodplain Soils	(F19)
	d Layers (A5)		Depleted Mat	trix (F3)			(MLRA 13		
	ick (A10) (LRR N)		Redox Dark S	, ,			•	Dark Surface	. ,
	d Below Dark Surface	e (A11)		k Surface (F7)		0	ther (Expla	in in Remarks)	)
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre		o) /I DD N				
	iucky Mineral (ST) <b>(L</b> <b>\ 147, 148)</b>	.KK N,	MLRA 130	ese Masses (F12	2) (LKK N,				
	Gleyed Matrix (S4)			ce (F13) <b>(MLRA</b>	136 122)	<sup>3</sup> Indi	icators of h	ydrophytic veg	etation and
	tedox (S5)			odplain Soils (F				logy must be p	
	Matrix (S6)			//aterial (F21) <b>(M</b>				ed or problema	
	_ayer (if observed):			, , ,	<u> </u>			·	
Type:									
Depth (inc	ches):					Hydric Soil	Present?	Yes 🗸	No
Remarks:								<u> </u>	· · · · ·

Wetland ID W-57-PEM2Cowardin Code PEM Date 08/28/19



Photograph Number <u>265</u>
Photograph Direction West

Comments:



Photograph Number <u>266</u>
Photograph Direction <u>SE</u>

Comments:

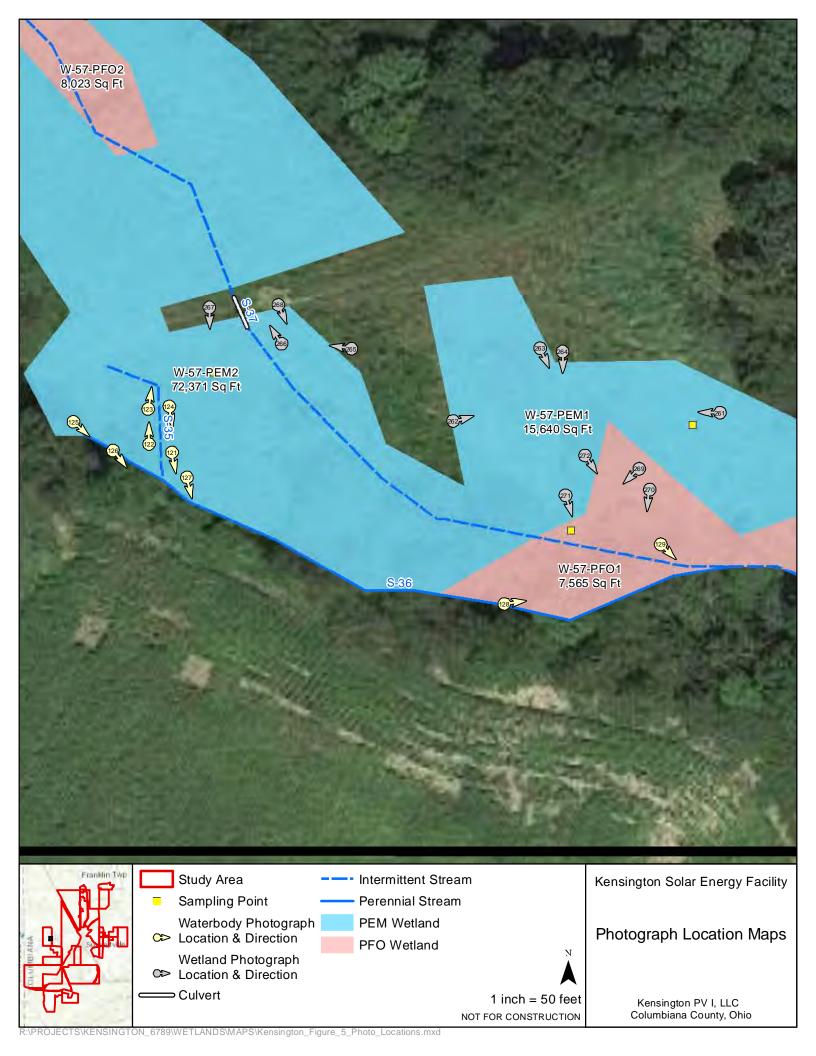


Photograph Number 267
Photograph Direction South

Comments:



Photograph Number <u>268</u>
Photograph Direction NW



Project/Site: Kensington Solar		City/C	Sampling Date: 08/28/19					
Applicant/Owner: Kensington PV I, LLC		,	State: OH Sampling Point: W-57					
		n, Township, Range: S2						
Landform (hillslope, terrace, etc.): Floodpla	ain			Slope (%): 0-5				
Subregion (LRR or MLRA): LRRN			Datum: NAD 83					
Soil Map Unit Name: Orrville silt loam, 0								
Are climatic / hydrologic conditions on the site	typical for this	s time of year? Ye	es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydro	logy s	significantly disturb	ped? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hydro								
SUMMARY OF FINDINGS – Attacl								
		·	· · · · · · · · · · · · · · · · · · ·					
, , ,		lo	Is the Sampled Area					
1 -		lo	within a Wetland?	Yes No				
Damada		GM: Riverine	Water Type:	Type: RPWWD				
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is requi	red: check all t	that apply)		Surface Soil				
Surface Water (A1)		e Aquatic Plants (I	314)		getated Concave Surface (B8)			
High Water Table (A2)		rogen Sulfide Odd		Drainage Par				
Saturation (A3)	-	-	es on Living Roots (C3)	Moss Trim Li				
Water Marks (B1)		sence of Reduced	-		Water Table (C2)			
Sediment Deposits (B2)	Rec	ent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thir	n Muck Surface (C	7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Oth	er (Explain in Rem	narks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	/ -							
		pth (inches):						
		pth (inches):						
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	pth (inches):	Wetland F	I Hydrology Present? Yes <u>✓</u> No				
Describe Recorded Data (stream gauge, mo	nitoring well,	aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
Remarks.								

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		
1 Prunus serotina	25		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2. Juglans nigra	15		FACU	That Ale OBE, I AOW, OF I AO(A)
			1 ///	Total Number of Dominant
3				Species Across All Strata:5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				(145)
7				Prevalence Index worksheet:
1	40	T		Total % Cover of: Multiply by:
1		= Total Cov	_	OBL species 10 x 1 = 10
50% of total cover: 20	20% of	total cover:	8	70
Sapling/Shrub Stratum (Plot size: 15' )				17.617 000000
1. Rubus alleghiensis	5		FACU_	FAC species x 3 = 30
2				FACU species45 x 4 =180
				UPL species x 5 =
3				Column Totals: 125 (A) 360 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 2.88
6				Trovalorico mask = B// t =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: <u>2.5</u>	20% of	total cover:	1	
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Impatiens capensis	30	<b>✓</b>	<b>FACW</b>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Phalaris arundinacea	30	~	FACW	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Symphyotrichum prenanthoides	10		FAC	be present, unless disturbed or problematic.
4. Persicaria sagittatum	10		OBL	Definitions of Four Vegetation Strata:
5. Pilea pumila	10		<b>FACW</b>	benintions of Four Vogetation Ordia.
6.		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	90			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 45		= Total Cov	40	of size, and woody plants less than 3.28 ft tall.
4FI	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	neet.)			
	,			

Color (moist) % Color (moist) % Type Loc* Teature Remarks  10/17 4/2 10/0 SICL  3-14 10/YR 4/1 85 7.5/YR 4/6 15 C M CL  Vipe: Ca-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Vipe: Ca-Concentration, Masked Sand Grains.  Vipe: Ca-Concentration, Masked Sand Grain	Depth	Matrix	0/		Features	.mo1	2	Tavtura		D	wl.a	
3-14	nches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> <u>T</u>	ype Lo	<u> </u>		-	Kemai	IKS	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2 Location: PL=Pore Lining, M=Matrix.  rdric Soil Indicators:  Indicators for Problematic Hydric Soil  Histosol (A1)  — Dark Surface (S7) — 2 cm Muck (A10) (MLRA 147)  — Histic Epipedon (A2) — Polyvalue Below Surface (S8) (MLRA 147, 148) — Coast Prairie Redox (A16)  Elack Histic (A3) — Thin Dark Surface (S9) (MLRA 147, 148) — Coast Prairie Redox (A16) — Loamy Gleyed Matrix (F2) — Depleted Matrix (F3) — Depleted Matrix (F3) — Coast Prairie Redox (A16) — Piedmont Floodplain Soils (F19) — (MLRA 136, 147) — Very Shallow Dark Surface (TF12) — Depleted Below Dark Surface (A11) — Depleted Dark Surface (F6) — Very Shallow Dark Surface (TF12) — Other (Explain in Remarks) — Other (Explain in Remarks) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Umbric Surface (F13) (MLRA 136, 122) — Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 148) — Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 148) — wetland hydrology must be present, unless disturbed or problematic.  Type: — Depth (inches): — Hydric Soil Present? Yes V No	0-3	-	100									
Histosol (A1)	3-14	10YR 4/1	85	7.5YR 4/6	<u>15</u> C	<u> </u>		CL				
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)						<del></del>						
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)	ne: C=Co	oncentration, D=Depl	etion. RM=	Reduced Matrix, MS	=Masked Sa	nd Grains.	2	ocation: PI	=Pore Lin	ing. M=Ma	trix.	
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Loamy Gleyed Matrix (F3)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Sandy Redox (S5)  Stripped Matrix (S6)  Thin Dark Surface (S9) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Torn-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Wetland hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.  Stripped Matrix (S6)  Hydric Soil Present? Yes V No			0.0011, 1.001	rtoadood matrix, me	-mached oa	ria Granio.						ric Soils <sup>3</sup>
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Below Dark Surface (F12)  Depleted Dark Surface (F13) (MLRA 136, 122)  Fledmont Floodplain Soils (F19)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Trictitive Layer (if observed):  Strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes V No				Dark Surface	(S7)						-	
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148)  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain in Remarks)  MLRA 136,  Sandy Gleyed Matrix (S4)  September 1 Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Method 1 Surface (F13) (MLRA 148)  Wetland hydrology must be present, unless disturbed or problematic.  Matrix (S6)  Wetland hydrology must be present, unless disturbed or problematic.  Matrix (S6)  Wetland hydrology must be present, unless disturbed or problematic.  Matrix (S6)  Wetland hydrology must be present, unless disturbed or problematic.  Matrix (S6)  Wetland hydrology must be present, unless disturbed or problematic.						S8) <b>(MLR</b>	147, 148		,	, .		•
Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Every Depleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  MLRA 136)  Surface (F13) (MLRA 136, 122)  Sindicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.  Stripped Matrix (S6)  Every Depth (inches):  Hydric Soil Present? Yes No					. , .	LRA 147,	148)					
2 cm Muck (A10) (LRR N)		, ,			, ,			Pi			oils (F	19)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Served Matrix (S6) Depth (inches):  Depleted Dark Surface (F7) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR N, MLRA 136, 122) Served Dark Surface (F12) (LRR								<b>V</b>			<b>.</b> /	TE40)
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophytic vegetation as Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, and the red problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No			(Δ11)			7)			•			TF12)
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Experim Copth (inches):			(411)			,			ilici (Expie	iiii iii ittoine	aino)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148)   Stripped Matrix (S6)    Red Parent Material (F21) (MLRA 127, 147)   Strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No			RR N,			F12) <b>(LRR</b>	N,					
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Type: Depth (inches): Hydric Soil Present? Yes No	MLRA	147, 148)		MLRA 130	3)							
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No											_	
Strictive Layer (if observed):  Type:  Depth (inches):									-			
Type: Depth (inches): Hydric Soil Present? Yes No				Red Parent N	laterial (F21)	(MLRA 12	7, 147)	unl	ess disturb	ed or prob	lemat	ic.
Depth (inches): Hydric Soil Present? Yes V No		ayer (if observed):										
		.l \							D	V 4	/	NI.
narks:		cnes):					Н	iyarıc Soii	Present?	Yes		NO
	narks:											

Wetland ID W-57-PFO1 Cowardin Code PFO Date 08/28/19



Photograph Number <u>269</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>270</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number 271

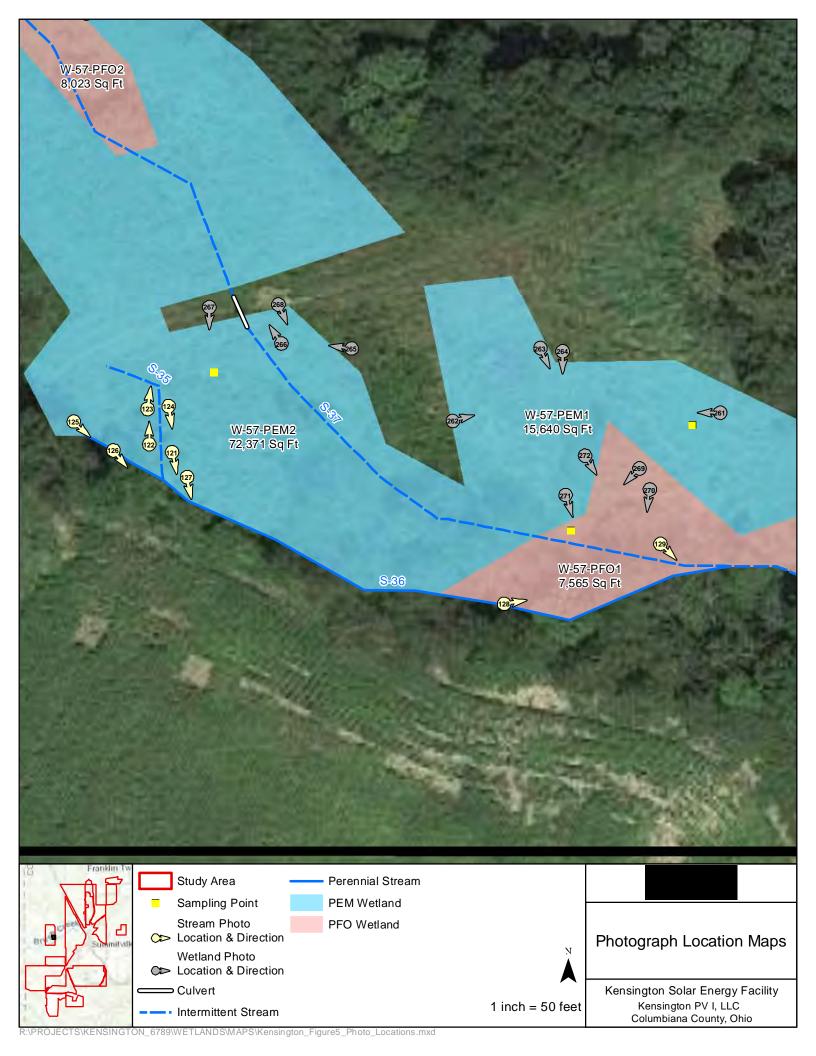
Photograph Direction South

Comments:



Photograph Number 272

Photograph Direction SE



Project/Site: Kensington	City/County: Colo	umbiana	_ Sampling Date: 08/28/19				
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-57-PFO2				
Investigator(s): KMP, SAZ, JL	o, Range: 22R 14N R4W						
Landform (hillslope, terrace, etc.): Floodplai	convex. none): Concave	Slope (%): 0-5					
	Subregion (LRR or MLRA): LRRN Lat: 40.682531 Long: -8						
Soil Map Unit Name: Orrville silt loam, 0 t							
Are climatic / hydrologic conditions on the site	vpical for this time of year? Yes	No (If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrok							
Are Vegetation, Soil, or Hydrold		(If needed, explain any answ					
SUMMARY OF FINDINGS – Attach							
	No Is the Sam		_				
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	willing w	etland? Yes	No				
Remarks: Cowardin Code: PFO		ter Type: RPWWD					
Cowardin Code. FFO	HOW. NIVERINE WA	ter Type. NEWWD					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)				
Primary Indicators (minimum of one is require	d; check all that apply)	Surface So	il Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Living	Roots (C3) Moss Trim	Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seasor	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled So	oils (C6) Crayfish Bu	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)				
Iron Deposits (B5)		<u>✓</u> Geomorphi	1 1				
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)			raphic Relief (D4)				
Aquatic Fauna (B13)		<u>✓</u> FAC-Neutra	ai Test (D5)				
Field Observations:	Danth (inches)						
	Depth (inches): Depth (inches):						
Saturation Present? Yes N (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes V No				
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspec	tions), if available:					
Remarks:							
Standing dead							

Sampling	Point.	W-57-	PF <sub>02</sub>
Samulinu	r Oll II.	•• • •	

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Acer rubrum	10		F <u>AC</u>	That Are OBL, FACW, or FAC:6 (A)
2. Prunus serotina	30		F <u>ACU</u>	Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)
6				That Are OBL, FACW, OF FAC.
7				Prevalence Index worksheet:
r	40	= Total Co	· · · · ·	Total % Cover of: Multiply by:
50% of total cover: 20				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	20 /0 01	total cover		FACW species x 2 =
1. Euonymus atropurpureus	20	/	FACU	FAC species x 3 =
			1 700	FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5	-			Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				✓ 2 - Dominance Test is >50%
<u> </u>	20	= Total Co	uor.	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:10		total cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )		10101 00101	•	data in Remarks or on a separate sheet)
1. Impatiens capensis	15	~	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Typha latifolia	5		OBL	
	10		- ——	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Persicaria sagittatum			OBL	be present, unless disturbed or problematic.
4. Pilea pumila	15		FACW_	Definitions of Four Vegetation Strata:
5. Verbesina alternifolia	10		FAC	
6. Sanicula odorata	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Leersia oryzoides	10		OBL	height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				, '
11	70	T 0		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		= Total Cover		or size, and woody plants less than 3.20 it tall.
	20% 01	lotal cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Co	ver	Present? Yes V No No
50% of total cover:0	20% of	total cover	: <u> </u>	
Remarks: (Include photo numbers here or on a separate s	heet.)			
, , ,	,			

Depth	cription: (Describe to Matrix	io ine depi		x Features		iii tiic absciice (	or marcator	3.,	
(inches)	Color (moist)	%	Color (moist)	%Ty	rpe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-5	10YR 4/1	85	7.5YR 4/6	15C	M	SIL			
5-15	10YR 4/2	80	7.5YR 4/6	<u>20</u> <u>C</u>	M	SICL			
					<del></del> - <del></del>	<del></del>			
					<del></del>	· ·			
						2			
	oncentration, D=Depl Indicators:	etion, RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: PL		g, M=Matrix. oblematic Hy	dric Soils <sup>3</sup> ·
_ Histosol			Dark Surface	(\$7)				10) <b>(MLRA 1</b> 4	
	pipedon (A2)			, ,	88) <b>(MLRA 147</b>			Redox (A16)	<del>,</del> ,,
Black Hi					.RA 147, 148)		(MLRA 147		
	en Sulfide (A4)			ed Matrix (F2)	, -,			odplain Soils (	F19)
	d Layers (A5)		Depleted Ma				(MLRA 136		,
_ 2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F6)		Ve	ery Shallow	Dark Surface	(TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)	)	Ot	her (Explair	n in Remarks)	
	ark Surface (A12)		Redox Depre						
	Mucky Mineral (S1) (L	.RR N,		ese Masses (F	12) <b>(LRR N,</b>				
	147, 148)		MLRA 13	•	A 426 422\	3 loodii	aatara af bu	drankutia uaa	atation and
	Gleyed Matrix (S4) Redox (S5)			ce (F13) <b>(MLF</b>	(F19) <b>(MLRA 1</b>			drophytic vege ogy must be p	
	Matrix (S6)				(MLRA 127, 14			d or problema	
	Layer (if observed):		Red r archi h	naterial (1 2 1) (	III	1	Jos distarbo	a or probleme	
Type:									
	ches):					Hydric Soil I	Present?	Yes 🗸	No
emarks:									

Wetland ID W-57-PFO2 Cowardin Code PFO Date 08/28/19



Photograph Number <u>273</u>
Photograph Direction East

Comments:



Photograph Number 274

Photograph Direction South

Comments:



Photograph Number 275

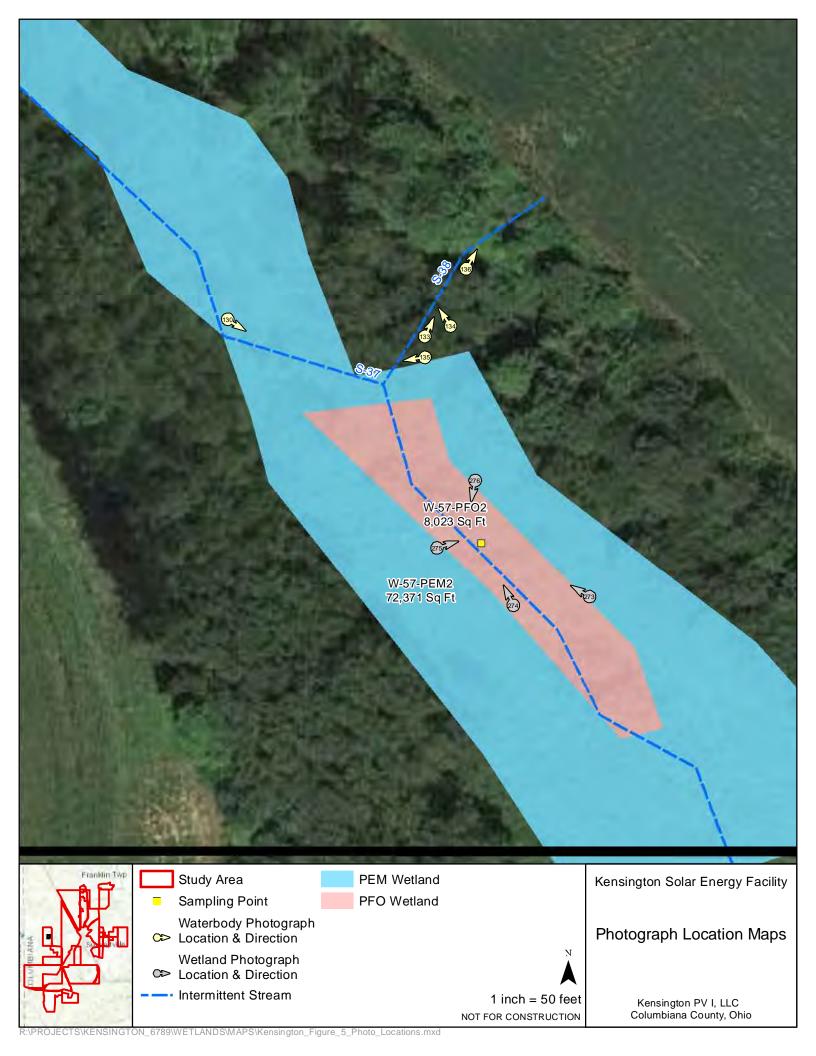
Photograph Direction NW

Comments:



Photograph Number 276

Photograph Direction NW



Project/Site: Kensington	City/County	: Columbiana	Sampling Date: 08/28/19			
Applicant/Owner: Kensington PV I, LLC		State: OH	Sampling Point: W-57-UPL			
		ownship, Range: S22 T14N R4				
Landform (hillslope, terrace, etc.): Floodplain		oncave, convex, none): Convex				
Subregion (LRR or MLRA): LRRN	Lat. 40.68424		Datum: NAD 83			
Soil Map Unit Name: Westmoreland-Cosho						
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes	No (If no, explain i	in Remarks.)			
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach s						
		,				
	No.	ne Sampled Area	.,			
	No with	nin a Wetland? Yes	No			
Remarks: Cowardin Code: UPLAND		Water Type:				
Cowardin Code: UPLAND	HGIVI.	vvater Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary In	dicators (minimum of two required)			
Primary Indicators (minimum of one is required	check all that apply)	Surface S	Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely	Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on	Living Roots (C3) Moss Trir	m Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron	(C4) Dry-Seas	son Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in T	illed Soils (C6) Crayfish	Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturatio	n Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	) Stunted o	or Stressed Plants (D1)			
Iron Deposits (B5)		Geomorp	phic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow /	Aquitard (D3)			
Water-Stained Leaves (B9)		Microtopo	ographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neu	itral Test (D5)			
Field Observations:						
	Depth (inches):					
Water Table Present? Yes No	Depth (inches):	_				
	Depth (inches):	_ Wetland Hydrology Pre	esent? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)	oring well, aerial photos, previous	inspections), if available:				
Remarks:						

### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling	Point: W-57-UPL
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Troo Stratum (Blot size: 30'	Absolute		Indicator	Dominance Test worksheet:	
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	
1. Acer rubrum	20		FAC	That Are OBL, FACW, or FAC: 4	۹)
2. Prunus serotina	30		F <u>ACU</u>	Total Number of Dominant	
3					В)
4					′
				Percent of Dominant Species That Are ORL FACW or FAC: 44%	
5				That Are OBL, FACW, or FAC: 4476 (A	A/B)
6		-		Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		= Total Co			
50% of total cover: <u>25</u>	20% of	total cover	r: <u>10</u>	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1. Rosa multiflora	10		F <u>ACU</u>	FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
				Column Totals: (A)	(B)
4					` '
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9					
	4.0	= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:5				4 - Morphological Adaptations <sup>1</sup> (Provide suppo	rting
Herb Stratum (Plot size: 5' )			·	data in Remarks or on a separate sheet)	
1. Alliaria petiolata	10	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	20		FACU		
2. Osmorhiza claytonii				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
3. Amphicarpaea bracteata	10		FAC	be present, unless disturbed or problematic.	
4. Pilea pumila	15		FACW_	Definitions of Four Vegetation Strata:	
5. Impatiens capensis	10		FACW_	3	
6. Toxicodendron radicans	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
7 Sanicula odorata	10	<b>V</b>	FACU	more in diameter at breast height (DBH), regardless height.	s of
• • • • • • • • • • • • • • • • • • • •	-	-		Tioight.	
8		-		Sapling/Shrub – Woody plants, excluding vines, le	
9				than 3 in. DBH and greater than or equal to 3.28 ft	(1
10				m) tall.	
11				Herb - All herbaceous (non-woody) plants, regardle	ess
		= Total Co		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 40	20% of	total cover	r: <u>16</u>	Woody vine – All woody vines greater than 3.28 ft	in
Woody Vine Stratum (Plot size:15')				height.	111
1				115.3.11	
2					
0		-			
3		-			
4				Hydrophytic	
5				Vegetation	
		= Total Co	_	Present? Yes No	
50% of total cover: 0	20% of	total cover	r:0		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absenc	e of indicators.)
Depth	Matrix		Redo	x Features	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-15	10YR 4/4	100					SIL	
								_
							-	
<del></del>							-	
								<u> </u>
1				<del></del> .			2	
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface				· · · · · · · · · · · · · · · · · · ·	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		es (F12) <b>(</b> I	LRR N,		
	\ 147, 148)		MLRA 13				2	
	Sleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> u	inless disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (inc	ches):		_				Hydric So	oil Present? Yes No 🔽
Remarks:							1	

Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/28/19			
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-58			
	Section, Township, Range: S22 14N 4W				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, n	one): Concave Slope (%): 0-5			
Subregion (LRR or MLRA): LRRN La	<sub>t:</sub> 40.685328 Long: -8	0.90698 Datum: NAD 83			
Soil Map Unit Name: Westmoreland-Coshoctor					
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norm	al Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site i	map showing sampling point locat	ions, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	No				
	Is the Sampled Area				
Wetland Hydrology Present?	No within a Wetland?	Yes No			
Demantica	HGM: Slope Water Type	· BPWWD			
HADBOLOCA					
HYDROLOGY  Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
, ,,	ak all that apply)				
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)			
	_ True Aquatic Plants (B14) _ Hydrogen Sulfide Odor (C1)	<ul><li> Sparsely Vegetated Concave Surface (B8)</li><li> Drainage Patterns (B10)</li></ul>			
	_ nydrogen suilide Odor (C1) _ Oxidized Rhizospheres on Living Roots (C3				
	Presence of Reduced Iron (C4)				
\	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	_ Other (Explain in Normanio)	Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutral Test (D5)			
Field Observations:	1				
	Depth (inches):				
	Depth (inches):				
		Hydrology Present? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well aerial photos previous inspections), if a	vailable:			
gauge,eg	, aoa. p, p				
Remarks:					

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_ 1. Impatiens capensis

2. Osmorhiza claytonii

3. Pilea pumila

4. Persicaria maculosa

\_\_\_)

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

50% of total cover: 42.5 20% of total cover: 17

50% of total cover: 0 20% of total cover: 0

5. Carex vulpinoidea 10 OBL

	O l' D.	· W 50
ames of plants.	Sampling Po	IUI: AA-20
Absolute Dominant Indicator <u>% Cover Species? Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
	Total Number of Dominant Species Across All Strata:	3 (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:	100% (A/B)
	Prevalence Index worksheet:	
0 = Total Cover	Total % Cover of:	Multiply by:
20% of total cover: 0	OBL species x	1 =
20% of total cover	FACW species x	2 =
	· ———	3 =
	'	4 =
	•	5 =
	Column Totals: (A	.) (B)
	Prevalence Index = B/A =	
	Hydrophytic Vegetation Indica	tors:
	1 - Rapid Test for Hydrophy	tic Vegetation
	✓ 2 - Dominance Test is >50%	
	3 - Prevalence Index is ≤3.0	1
0 = Total Cover	4 - Morphological Adaptation	
20% of total cover:0	data in Remarks or on a	· · · · · · · · · · · · · · · · · · ·
20 ✔ FACW	Problematic Hydrophytic Ve	
15 FACU		
20	<sup>1</sup> Indicators of hydric soil and wet	land hydrology must
	be present, unless disturbed or p	problematic.
	Definitions of Four Vegetation	Strata:
OBL	<b>Tree</b> – Woody plants, excluding more in diameter at breast heigh height.	
	Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.	
85 = Total Cover 20% of total cover: 17	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less the	
5 20% of total cover: 17	<b>Woody vine</b> – All woody vines gheight.	reater than 3.28 ft in
	Hydrophytic Vegetation Present? Yes <u>V</u>	. No

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

	Matrix Color (moist)	%		x Features	ype <sup>1</sup> Loc <sup>2</sup>	Texture	ь	omorko	
inches) 0-16	10YR 4/1	80	Color (moist) 7.5RY 4/6			SIL	K	<u>emarks</u>	
0-16	1011 4/1	80	7.3KT 4/0		, IVI	SIL			
pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked Sa	nd Grains.		=Pore Lining, M		
dric Soil Ir	ndicators:					Indicat	ors for Proble	matic Hyd	ric Soils <sup>3</sup>
Histosol (	(A1)		Dark Surface				m Muck (A10) (	MLRA 147	7)
	ipedon (A2)				S8) <b>(MLRA 147</b> ,		ast Prairie Red		
Black His				, , ,	LRA 147, 148)		(MLRA 147, 14		
	Sulfide (A4)			ed Matrix (F2)			edmont Floodpla	,	19)
	Layers (A5)		Depleted Ma				(MLRA 136, 14		TE40)
	ck (A10) <b>(LRR N)</b> Below Dark Surface	(Δ11)	Redox Dark	Surrace (F6) rk Surface (F7	7		ry Shallow Dark ner (Explain in F		1112)
	rk Surface (A12)	(7(1)	Redox Depre		,	0	ici (Explaiii iii i	(Ciliarits)	
	ucky Mineral (S1) <b>(L</b>	RR N.		ese Masses (	F12) <b>(LRR N.</b>				
	147, 148)	,	MLRA 13		, (,				
	leyed Matrix (S4)			ace (F13) <b>(ML</b>	RA 136, 122)	<sup>3</sup> Indic	ators of hydrop	hytic veget	tation and
_ Sandy Re					(F19) <b>(MLRA 1</b> 4		and hydrology r		
Stripped	Matrix (S6)		Red Parent N	Material (F21)	(MLRA 127, 147	') unle	ess disturbed or	problemat	ic.
strictive L	ayer (if observed):								
Туре:									
	hoo):					Hydric Soil F	Present? Yes	s_ <b></b> _	No
Depth (incl	nes)								
	nes)								
. ,	nes)								
. ,									
	nes).								
	nes).								
. ,	nes).								
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	iles).								
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	nes).								
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	nes).								
Depth (incl	nes).								
	nes).								
. ,	nes).								
	nes).								
. ,	nes).								
. ,	nes).								

Wetland ID W-58 Cowardin Code PEM Date 08/28/19



Photograph Number <u>277</u>
Photograph Direction <u>SE</u>

Comments:



Photograph Number <u>278</u>
Photograph Direction NE

Comments:



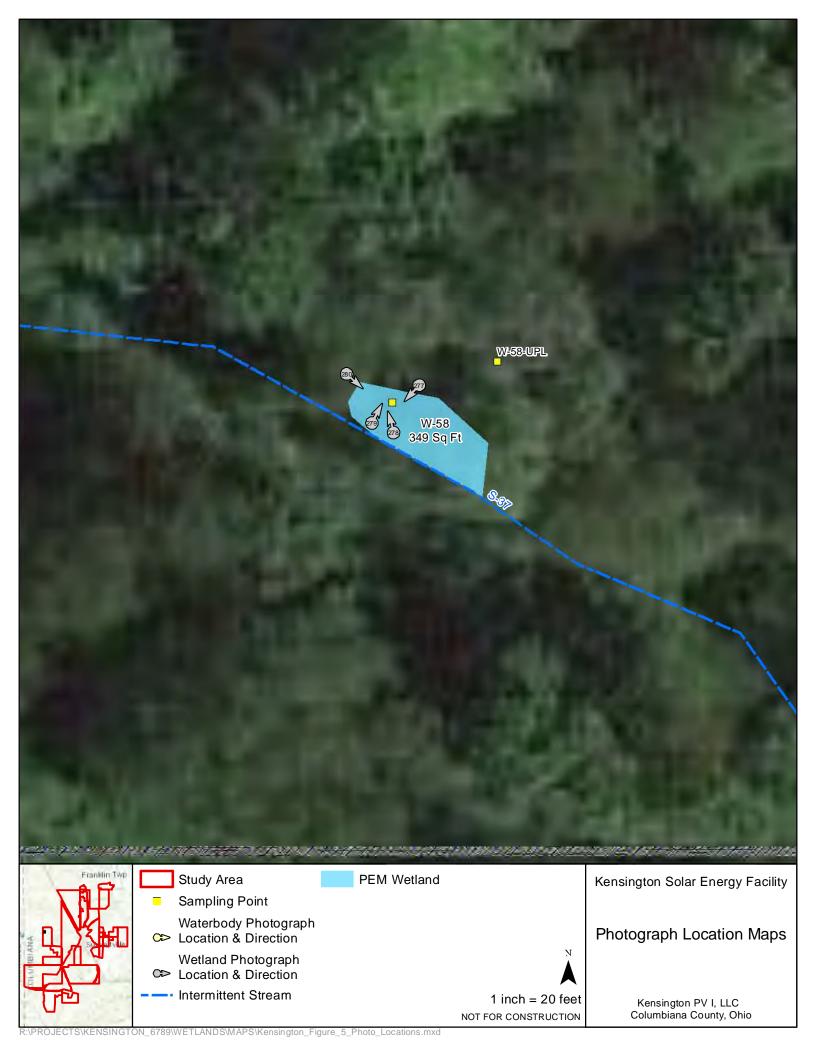
Photograph Number 279
Photograph Direction North

Comments:



Photograph Number 280
Photograph Direction SW

3:			



Project/Site: Kensington	City/County: C	Columbiana	_ Sampling Date: 08/28/19			
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-58-UPL			
	Section, Towns					
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca					
Subregion (LRR or MLRA): LRRN	40.68535	Long: -80.9069	Datum: NAD 83			
Soil Map Unit Name: Westmoreland-Coshoct	on silt loams, 8 to 15 percer	nt slopes NWI classif	ication: N/A			
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes	No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology _						
Are Vegetation, Soil, or Hydrology _						
SUMMARY OF FINDINGS – Attach site						
Hydrophytic Vegetation Present?	Nole the S					
	No V	Sampled Area	•/			
	No within a	a Wetland? Yes	No			
Remarks: Cowardin Code: UPLAND		Water Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required; cl	neck all that apply)	Surface So	l Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Livi	ing Roots (C3) Moss Trim	Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (C4	uced Iron (C4) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	d Soils (C6) Crayfish Bu	rrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)			
Iron Deposits (B5)		<del></del> ·	c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aq				
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)			
Field Observations:	<b>V</b> 5 4 (1 1 )					
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes No			
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous insp	pections), if available:				
Damarka						
Remarks:						

#### VEGETATION (Four Strata) - Use scientific names of plants.

2. Acer rubrum

Sapling/Shrub Stratum (Plot size: 15' )

2. Sanicula odorata

3. Geum canadense

4. Amphicarpaea bracteata

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

\_\_)

5. Parthenocissus quinquefolia 5 FACU

50% of total cover: 20 20% of total cover: 8

50% of total cover: 10 20% of total cover: 4

50% of total cover: 20 20% of total cover: 8

50% of total cover: 0 20% of total cover:

Tree Stratum (Plot size: \_

1. Prunus serotina

Acer rubrum

Herb Stratum (Plot size: \_\_\_

1. Pilea pumila

mes of	plants.		Sampling Point: W-58-UPL
Absolute			Dominance Test worksheet:
% Cover 25	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:  4 (A)
15		F <u>AC</u>	Total Number of Dominant Species Across All Strata: 7 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:57% (A/E
	•		Prevalence Index worksheet:
40	= Total Cov	rer	Total % Cover of: Multiply by:
	total cover	•	OBL species x 1 =
_			FACW species x 2 =
10	~	FAC	FAC species x 3 =
10	~	FACU	FACU species x 4 =
	-	· · · · · · · · · · · · · · · · · · ·	UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
	-		Hydrophytic Vegetation Indicators:
	-		1 - Rapid Test for Hydrophytic Vegetation
		·	2 - Dominance Test is >50%
		·	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
_ 20% of	total cover	. 4	data in Remarks or on a separate sheet)
10		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		FACU	Indicators of hydric soil and watland hydrology must
10		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10		FAC	Definitions of Four Vegetation Strata:
5		FACU_	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	= Total Cov	0	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
_ 20% of	total cover	. 8	<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
	= Total Cov	^	Hydrophytic Vegetation Present? Yes <u>✓</u> No

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	o the depth	needed to document the indicate Redox Features	. or committee	bacille of mulcat	U13.j	
(inches)	Color (moist)	%	Color (moist) % Type	Loc <sup>2</sup> Te	xture	Remarks	
0-12	10YR 4/4	100		;	SIL		
					<del></del>		
	-						
<sup>1</sup> Type: C=Co	ncentration D=Den	etion RM-R	educed Matrix, MS=Masked Sand (	Grains <sup>2</sup> Loc	ation: PL=Pore Lin	ing M-Matrix	
Hydric Soil		Cuon, ravi–ra	cacca matrix, mo-masked carra c	Jianis. Loci	Indicators for P		Iric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			A10) <b>(MLRA 14</b>	
	oipedon (A2)		Polyvalue Below Surface (S8)	(MI DA 147 149)		e Redox (A16)	′)
Black Hi			Thin Dark Surface (S9) (MLRA	•	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	1 147, 140)		oodplain Soils (F	=10)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 1		13)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			v Dark Surface (	TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			ain in Remarks)	
	ark Surface (A12)	. ( )	Redox Depressions (F8)			,	
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12	(LRR N.			
	147, 148)	<b>-</b> ,	MLRA 136)	(,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA	136, 122)	<sup>3</sup> Indicators of h	ydrophytic vege	tation and
	edox (S5)		Piedmont Floodplain Soils (F1			ology must be pr	
-	Matrix (S6)		Red Parent Material (F21) (ML			ed or problemat	
	ayer (if observed):			· ,			
Type:	,						
	ches):		_	Llyra	Iric Soil Present?	Yes	No 🗸
			_	пус	inc 30ii Fresent:	162	NO
Remarks:							

Project/Site: Kensington	City/C	County: Columbiana		Sampling Date: 08/28/19
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-59		
Investigator(s): KMP, SAZ, JL	Section			
Landform (hillslope, terrace, etc.): Hillslope	Local rel	ief (concave, convex, none)	Concave	Slope (%): 0-5
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Gavers silt loam, 2 t				
Are climatic / hydrologic conditions on the site	sypical for this time of year? Y	′es No (If r	no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrold				
Are Vegetation, Soil, or Hydrold				
SUMMARY OF FINDINGS – Attach			-	
			<u>· · · · · · · · · · · · · · · · · · · </u>	
, , , ,	No	Is the Sampled Area		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No
Damania	HGM: Slope	Water Type: RF	D\\/\\/\\	
Cow pasture		<b>71</b>		
HYDROLOGY				
Wetland Hydrology Indicators:		<u>Se</u>	econdary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		_ Surface Soil C	racks (B6)
Surface Water (A1)	True Aquatic Plants (	B14)	_ Sparsely Vege	etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		_ Drainage Patte	erns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced	Presence of Reduced Iron (C4) Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction	Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (0	Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rer	Other (Explain in Remarks) Stunted or Stressed Plants (D1)		
Iron Deposits (B5)		_	_ Geomorphic P	osition (D2)
Inundation Visible on Aerial Imagery (B7)		_	_ Shallow Aquita	ard (D3)
Water-Stained Leaves (B9)		_		hic Relief (D4)
Aquatic Fauna (B13)		_	_ FAC-Neutral T	Test (D5)
Field Observations:	•			
	o Depth (inches):			
	o Depth (inches):			
Saturation Present? Yes No Depth (inches (includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No		
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, pre	vious inspections), if availab	ole:	
Remarks:				
romano.				

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

2. Persicaria hydropiperoides

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_ 1. Echinochloa crus-galli

3. Polygonum sagittatum

4. Leersia oryzoides

\_\_\_)

50% of total cover: \_\_\_0

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

nes of plants. Sampling Point: W-59					
Absolute Dominant Indicator	Dominance Test worksheet:				
% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)				
	Total Number of Dominant Species Across All Strata:  1 (B)				
	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)				
	Prevalence Index worksheet:				
0 = Total Cover	Total % Cover of: Multiply by:				
20% of total cover: 0	OBL species x 1 =				
	FACW species x 2 =				
	FAC species x 3 =				
	FACU species x 4 =				
	UPL species x 5 =				
	Column Totals: (A) (B)				
	Prevalence Index = B/A =				
	Hydrophytic Vegetation Indicators:				
	1 - Rapid Test for Hydrophytic Vegetation				
	2 - Dominance Test is >50%				
0 = Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
= Total Cover 20% of total cover: 0	4 - Morphological Adaptations (Provide supporting				
	data in Remarks or on a separate sheet)				
70 <b>✓</b> FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
10 OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
10 OBL	be present, unless disturbed or problematic.				
10 OBL	Definitions of Four Vegetation Strata:				
	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
100 = Total Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
_ 20% of total cover:20	Woody vine – All woody vines greater than 3.28 ft in height.				
0 = Total Cover 20% of total cover: 0	Hydrophytic Vegetation Present?  Yes No				

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: 15')

Depth Desc	ription: (Describe t Matrix	o aopti		x Features			48001100	<b></b>
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/1	90	7.5YR 4/6	10	С	M/PL	SIL	
_			_					
								-
								-
			_					
						· (		
Tunor C Co	naantration D Donl	otion DM [	Paduand Matrix MG	- Maakad			<sup>2</sup> l continue D	L Doro Lining M Motrice
Type: C=Co	oncentration, D=Depl	etion, Rivi=i	Reduced Matrix, MS	s=iviasked	Sand Gr	ains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			Doule Confood	(07)				
Histosol	oipedon (A2)		Dark Surface Polyvalue Be	. ,	o (S8) <b>(I</b>	MI DA 147		cm Muck (A10) <b>(MLRA 147)</b> coast Prairie Redox (A16)
Histic Ep	. , ,		Thin Dark Su				0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			141, 140)	Р	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		_,		·	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S	, ,	6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar		,			other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	)			
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	s (F12) (	(LRR N,		
	\ 147, 148)		MLRA 13	-				
	ileyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	(1) <b>(ML</b> R	RA 127, 147	) un	less disturbed or problematic.
	_ayer (if observed):							
Type:			<u> </u>					,
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland ID W-59 Cowardin Code PEM Date 08/28/19



Photograph Number <u>281</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>282</u>
Photograph Direction East

Comments:



Photograph Number 283

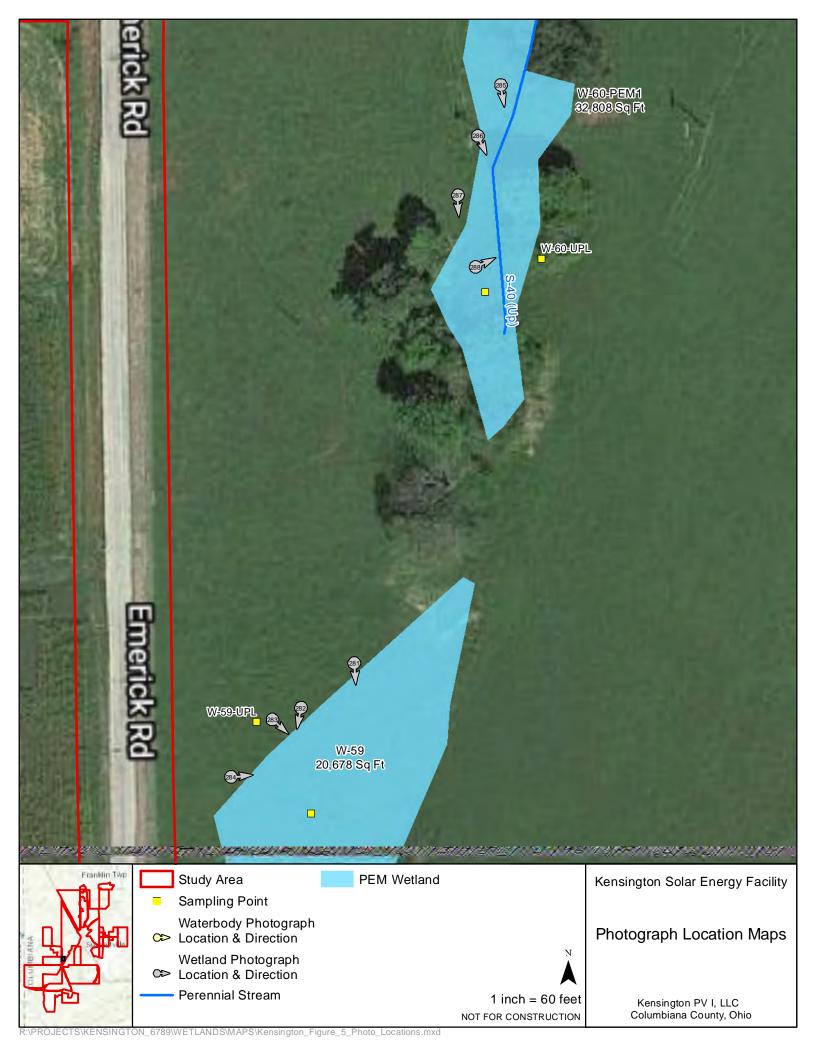
Photograph Direction SE

Comments:



Photograph Number 284
Photograph Direction South

•	



Project/Site: Kensington	City/County: Co	lumbiana	_ Sampling Date: 08/28/19		
Applicant/Owner: Kensington PV I, LLC	, ,		Sampling Point: W-59-UPL		
Investigator(s): KMP, SAZ, JL	Section, Townsh		<u> </u>		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concav	e, convex, none): Convex	Slope (%): 0-5		
Subregion (LRR or MLRA): LRRN			Datum: NAD 83		
Soil Map Unit Name: Gavers silt loam,	2 to 6 percent slopes	NWI classif	ication: N/A		
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes	No (If no, explain in	Remarks.)		
Are Vegetation, Soil, or Hydrology			present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach si					
		<u> </u>	, ,		
	No V Is the Sa	mpled Area			
	No within a	Wetland? Yes	No		
Remarks: Cowardin Code: UPLAND		/ater Type:			
Cow pasture					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi	il Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage P	atterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Livin	g Roots (C3) Moss Trim	Lines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seasor	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	Soils (C6) Crayfish Bu	rrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or	Stressed Plants (D1)		
Iron Deposits (B5)			c Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aq			
Water-Stained Leaves (B9)			raphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)		
Field Observations:					
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes No		
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspe	ections), if available:			
Remarks:					

### **VEGETATION** (Four Strata)

201		Dominant Indicator	Dominance Test workshee	t:
ree Stratum (Plot size: 30' )		Species? Status	Number of Dominant Specie That Are OBL, FACW, or FA	
			Total Number of Dominant Species Across All Strata:	3 (B)
			Percent of Dominant Specie	•
	_		That Are OBL, FACW, or FA	
			Prevalence Index workshe	et:
-	0	= Total Cover	Total % Cover of:	Multiply by:
50% of total cover: 0			OBL species	x 1 =
apling/Shrub Stratum (Plot size: 15' )	20 /0 01	total cover	FACW species	
			FAC species	
			FACU species	
			'	_ x 5 =
			Column Totals:	_ (A) (B)
			Prevalence Index = Ba	'A =
			Hydrophytic Vegetation In	dicators:
•			1 - Rapid Test for Hydro	phytic Vegetation
·	_		2 - Dominance Test is >	50%
·			3 - Prevalence Index is	
_		= Total Cover	4 - Morphological Adapt	
50% of total cover:0	20% of	total cover: 0	data in Remarks or o	
lerb Stratum (Plot size: 5' )			Problematic Hydrophytic	• , ,
Ambrosia artemisiifolia	40	<u></u> FACU		vegetation (Explain)
Cichorium intybus	20	<u></u> FACU	10.00.00.00.00.00.00.00.00	tla ad books la sociation
Trifolium pratense	20	✓ FACU	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed	
Setaria viridis	10	FACU	Definitions of Four Vegeta	•
Plantago lanceolata	5	FACU	Deminions of Four Vegeta	tion Strata.
Dactylis glomerata	15	FACU	Tree - Woody plants, exclud	
Plantago major	5	FACU	more in diameter at breast h height.	eight (DBH), regardless of
			Sapling/Shrub – Woody pla	
 0			than 3 in. DBH and greater t m) tall.	nan or equal to 3.28 it (1
		· · · · · · · · · · · · · · · · · · ·	,	
1		T-1-1-0	Herb – All herbaceous (non-	
50% of total cover: 57	5 20% of	= Total Cover	of size, and woody plants les	55 HIAH 5.40 H IAH.
Voody Vine Stratum (Plot size: 15' )	. <u>.                                   </u>	ioiai covei. 20	Woody vine – All woody vin	es greater than 3.28 ft in
			height.	
			Hydrophytic	
			Vegetation	
		= Total Cover	Present? Yes	No <u>/</u>
50% of total cover: 0	20% of	total cover: 0		

Depth	Matrix	are deput	needed to document the indicator or Redox Features	John III ale al	osnos or muicali	,	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks	
0-12	10YR 4/4	100		S	IL		
				<del></del>	<del></del>		
				<del></del>	<del></del>		
		·					
	-	·					
<sup>1</sup> Type: C=Co	ncentration D=Den	letion RM-R	educed Matrix, MS=Masked Sand Grain	s <sup>2</sup> l ocat	tion: PL=Pore Lini	ing M-Matrix	
Hydric Soil I		iction, rewi–re	eddeed Matrix, Mo-Masked Garid Grain	3. LOCA	Indicators for P		
Histosol			Dark Surface (S7)			A10) <b>(MLRA 1</b>	
	oipedon (A2)		Polyvalue Below Surface (S8) (MLF	2		Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA 147		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	, 140)		oodplain Soils	(F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(1 13)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			v Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			in in Remarks	
	ark Surface (A12)	(,,,,	Redox Depressions (F8)				,
	lucky Mineral (S1) <b>(L</b>	.RR N.	Iron-Manganese Masses (F12) (LR	R N.			
	147, 148)	<b>-</b> ,	MLRA 136)	,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122)	<sup>3</sup> Indicators of h	vdrophytic vec	etation and
	edox (S5)		Piedmont Floodplain Soils (F19) (M		wetland hydro		
	Matrix (S6)		Red Parent Material (F21) (MLRA 1		unless disturb		
	ayer (if observed):			· ,			
Type:	,						
	ches):		<del>_</del>	Llyde	ic Soil Present?	Yes	No 🗸
	лез)		_	Пуш	ic 30ii Freseiit!	165	
Remarks:							

Project/Site: Kensington	City/County:	Columbiana	s	Sampling Date: 08/28/19	
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-60-PEM	
vestigator(s): KMP, SAZ, JL Section, Township, Range: S23 T14N R4W					
Landform (hillslope, terrace, etc.): Hillslope	Local relief (cor	ncave, convex, none	e): Concave	Slope (%): 0-5	
Subregion (LRR or MLRA): LRRN L	<sub>.at:</sub> 40.67498	Long: -80.8	397664	Datum: NAD 83	
Soil Map Unit Name: Gavers silt loam, 2	to 6 percent slopes		NWI classificat	ion: N/A	
Are climatic / hydrologic conditions on the site typical					
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal C	Circumstances" pre	esent? Yes No	
Are Vegetation, Soil, or Hydrology _			plain any answers		
SUMMARY OF FINDINGS – Attach site					
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes	No withi	e Sampled Area n a Wetland?	Yes	No	
Wetland Hydrology Present? Yes	No HGM: Slope				
Soils continued: Gilpin-Coshocton silt loams, 6 to 15 perce	·	Water Type: R			
HYDROLOGY					
Wetland Hydrology Indicators:		9	Secondary Indicato	rs (minimum of two required)	
Primary Indicators (minimum of one is required; ch	eck all that apply)		Surface Soil Ci	acks (B6)	
Surface Water (A1)	True Aquatic Plants (B14)	_	Sparsely Vege	tated Concave Surface (B8)	
✓ High Water Table (A2)  _	Hydrogen Sulfide Odor (C1)	_	Drainage Patte	rns (B10)	
	Oxidized Rhizospheres on L	-	Moss Trim Line		
	Presence of Reduced Iron (		Dry-Season W		
	Recent Iron Reduction in Til	led Soils (C6)	Crayfish Burro		
Drift Deposits (B3)	Thin Muck Surface (C7)	_		ble on Aerial Imagery (C9)	
	Other (Explain in Remarks)	-	<del></del>	essed Plants (D1)	
Iron Deposits (B5)		<u>-</u>	Geomorphic Po	` '	
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aquita		
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>		<del>-</del>	<ul><li>Microtopograph</li><li>FAC-Neutral To</li></ul>		
Field Observations:		<del>-</del>	TAO Neutral 1	531 (155)	
	Depth (inches):1				
	Depth (inches): 0				
	Depth (inches): 0	Wetland Hy	drology Present?	Yes 🗸 No	
(includes capillary fringe)		•	<u> </u>	10310	
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous i	nspections), if availa	able:		
Remarks:					
remarks.					

Sampling Point: W-	-60-PE	Μ1
--------------------	--------	----

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2	-			Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Barrant of Barrier of Oracina
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6	-			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cov	_	OBL species x 1 =
15!	20% 01	total cover.		FACW species x 2 =
Japhing/Ornab Ottatam (1 lot size)				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% ()		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover:	0	data in Remarks or on a separate sheet)
rieib Stratuiii (Flot Size)	80	./	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Leersia oryzoides				
2. Bidens frondosa	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Impatiens capensis			FACW_	be present, unless disturbed or problematic.
4. Echinochloa crus-galli	5		FAC	Definitions of Four Vegetation Strata:
5. Eupatorium perfoliatum	5		OBL	Total Washington and all and a control of
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10	-			m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:50	20% of	total cover:	20	Was deades Allowed by Section 1997 to 1997
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2.				
3		'		
4				
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cov		Present? Yes V No No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate si				
Tremaine. (module prote numbers here of on a separate si	11001.)			

Sampling Point: W-60-PEM1

Profile Desc	ription: (Describe to	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	k Features	3			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-14	10YR 4/1	95	7.5YR 5/6	5	С	M	SIL	
						· ——		
							<del></del>	
					-			
							·	
						· ——		
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.		_=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	ipedon (A2)		Polyvalue Bel	low Surfac	ce (S8) <b>(N</b>	/ILRA 147,	<b>148)</b> Co	oast Prairie Redox (A16)
Black Hi	, ,		Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)			edmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		0)			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b> Below Dark Surface	(/11)	Redox Dark S Depleted Dar	•	,			ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
	ark Surface (A12)	(Д11)	Redox Depre				0	ther (Explain in Kemarks)
	lucky Mineral (S1) <b>(Li</b>	RR N.	Iron-Mangane			LRR N.		
	147, 148)	,	MLRA 136		, ,	,		
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> Indi	cators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	.8) wet	tland hydrology must be present,
	Matrix (S6)		Red Parent M	faterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> unl	ess disturbed or problematic.
Restrictive I	ayer (if observed):							
Type:			<u> </u>					
Depth (inc	ches):		_				Hydric Soil	Present? Yes V No No
Remarks:								

Wetland ID W-60-PEM1 Cowardin Code PEM Date 08/28/19



Photograph Number <u>285</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>286</u>
Photograph Direction <u>SE</u>

Comments:



Photograph Number 287
Photograph Direction South

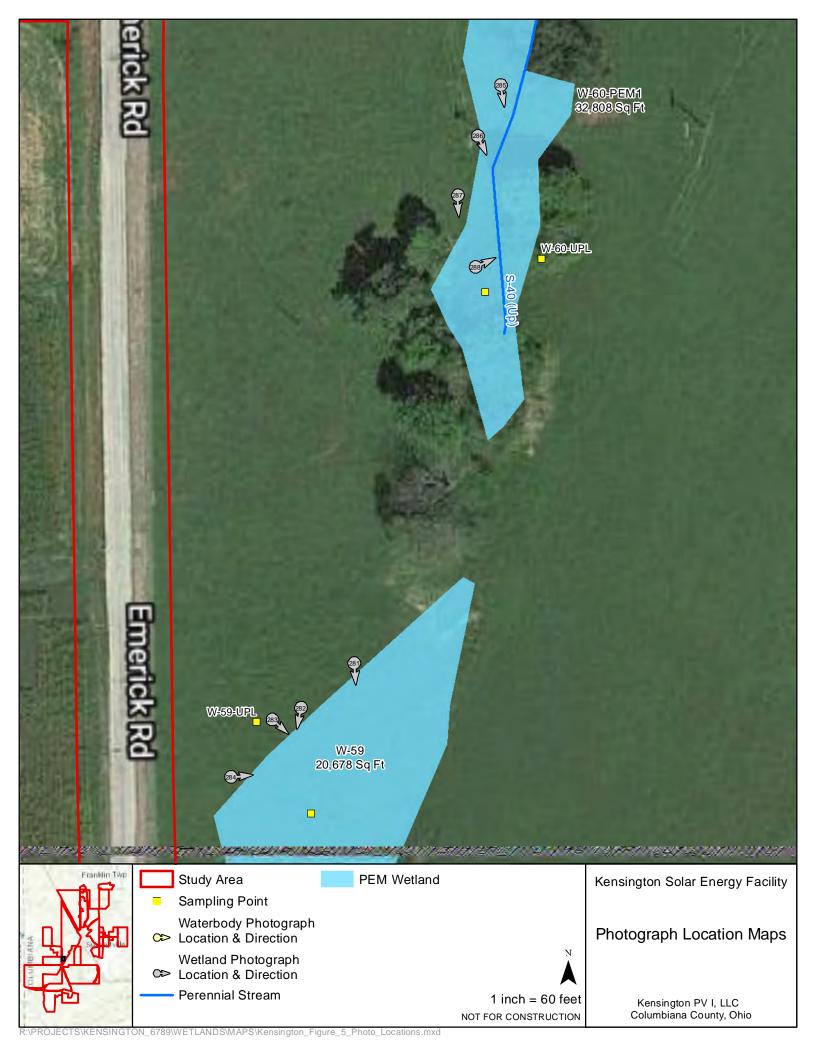
Comments:



Photograph Number 288
Photograph Direction NE

\_\_\_\_

Comments:			



Project/Site: Kensington		City/Co	ounty: Columbiana		Sampling Date: 08/28/19	
Applicant/Owner: Kensington PV I	, LLC		,		Sampling Point: W-60-PEM2	
Investigator(s): KMP, SAZ, JL		Sectio	n, Township, Range: S2	23 T14N R4W	<u> </u>	
Landform (hillslope, terrace, etc.): Flo						
Subregion (LRR or MLRA): LRRN						
Soil Map Unit Name: Gilpin-Cosl						
Are climatic / hydrologic conditions on t						
Are Vegetation, Soil, or				Circumstances" p	present? Yes No	
Are Vegetation, Soil, or	Hydrology	naturally problema	tic? (If needed, e	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site m	nap showing sam	pling point location	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present?	Yes 🗸	_ No				
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area	V V	No	
Wetland Hydrology Present?	Yes 🗸	No	within a Wetland?	res	No	
Remarks: Cowardin Code: PE	= N.4	HGM: Riverine	Water Type:	DDWWD		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is	s required; chec	k all that apply)		Surface Soil	, ,	
Surface Water (A1)		True Aquatic Plants (E	314)		getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odo		Dry-Season Water Table (C2)		
Saturation (A3)			-			
Water Marks (B1)		Presence of Reduced	, ,			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri		
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rem			sible on Aerial Imagery (C9) tressed Plants (D1)	
Iron Deposits (B5)		Other (Explain in Kein	ains)	Geomorphic	` '	
Inundation Visible on Aerial Imag	erv (B7)			Shallow Aqui		
Water-Stained Leaves (B9)	(-1)			Microtopographic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral		
Field Observations:						
Surface Water Present? Yes _	No	Depth (inches):				
Water Table Present? Yes _	No	Depth (inches):				
	No	Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No	
(includes capillary fringe)  Describe Recorded Data (stream gau	ae monitorina	vell aerial photos prev	ious inspections) if ava	ilahla:		
Describe Necorded Data (stream gad	ge, monitoring v	veii, aeriai priotos, prev	ious irispections), ii ava	liable.		
Remarks:						

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Impatiens capensis

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

5. Leersia virginica

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_

2. Pilea pumila

4. Carex lurida

1. Persicaria maculosa

6. Polygonum sagittatum

\_\_\_)

50% of total cover: \_\_\_0

% Cover Species? Status

= Total Cover

0 \_ = Total Cover

10

10

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

20

10\_\_

100 = Total Cover

0 = Total Cover

20% of total cover:\_ 0

**FACW** 

**FACW** 

**FACW** 

OBL

OBL

OBL

50% of total cover: 0 20% of total cover: 0

	Sampling Poi	nt: <u>W-60-PEN</u>	/12
	Dominance Test worksheet:		
-	Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
-	Total Number of Dominant Species Across All Strata:	3	(B)
-	Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)
-	Prevalence Index worksheet:		
-	Total % Cover of:	Multiply by:	
	OBL species x		
-			
	FACW species x 2		
-		3 =	
_		4 =	_
_	UPL species x !	5 =	_
-	Column Totals: (A)		_ (B)
-	Prevalence Index = B/A =		_
	Hydrophytic Vegetation Indica		
-	1 - Rapid Test for Hydrophyt	•	
-	✓ 2 - Dominance Test is >50%		
-	3 - Prevalence Index is ≤3.0		
	4 - Morphological Adaptation	s <sup>1</sup> (Provide sup	porting
-	data in Remarks or on a s	separate sheet)	
_	Problematic Hydrophytic Veo	getation <sup>1</sup> (Explai	n)
-	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrology n	nust
_	Definitions of Four Vegetation		
1 1	Tree – Woody plants, excluding wore in diameter at breast height height.	vines, 3 in. (7.6	
	Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.		
-	Herb – All herbaceous (non-wood of size, and woody plants less that		rdless
-	<b>Woody vine</b> – All woody vines gineight.	reater than 3.28	ft in
-			
_			
_			
	Hydronhytic		
	Hydrophytic Vegetation		
	Present? Yes	No	
-			

Remarks: (Include photo numbers here or on a separate sheet.)

	Matrix Color (moist)	%		x Features	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Pomo	rko
inches) 0-12	10YR 4/1	<del></del> 80	Color (moist) 7.5YR 4/6	20 C	M Loc	SIL	Rema	11/0
0-12	1011 4/1	80	7.31K 4/0		<u>IVI</u>	SIL		
pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked San	d Grains.		=Pore Lining, M=Ma	
dric Soil Ir	ndicators:					Indica	tors for Problemati	c Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface				cm Muck (A10) (MLF	
	pedon (A2)			low Surface (S			oast Prairie Redox (A	(16)
Black His				ırface (S9) (ML	RA 147, 148)		(MLRA 147, 148)	
	Sulfide (A4)			ed Matrix (F2)		· · · · · · · · · · · · · · · · · · ·	edmont Floodplain S	oils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark				(MLRA 136, 147)	food (TE12)
_	Below Dark Surface	(Δ11)		rk Surface (F6)			ery Shallow Dark Sur her (Explain in Rema	
	rk Surface (A12)	(7(1)	Redox Depre			0.	ner (Explain in Rein	arks)
	ucky Mineral (S1) <b>(L</b>	RR N.		ese Masses (F	12) <b>(LRR N.</b>			
-	147, 148)	,	MLRA 13		, (,			
	eyed Matrix (S4)			ice (F13) <b>(MLR</b>	A 136, 122)	<sup>3</sup> Indi	cators of hydrophytic	vegetation and
_ Sandy Re				oodplain Soils (I			land hydrology must	-
Stripped	Matrix (S6)		Red Parent N	Material (F21) (I	<b>MLRA 127, 147</b>	<b>')</b> unle	ess disturbed or prob	lematic.
strictive L	ayer (if observed):							
Туре:			<u></u>					
Depth (incl	hes):		<u></u>			Hydric Soil	Present? Yes	No
marks:								
marks:								
marks:								
marks:								
marks:								
marks:								
marks:								
marks:								
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Wetland ID W-60-PEM2Cowardin Code PEM Date 08/28/19



Photograph Number <u>293</u>
Photograph Direction <u>East</u>

Comments:



Photograph Number <u>294</u>
Photograph Direction <u>SW</u>

Comments:



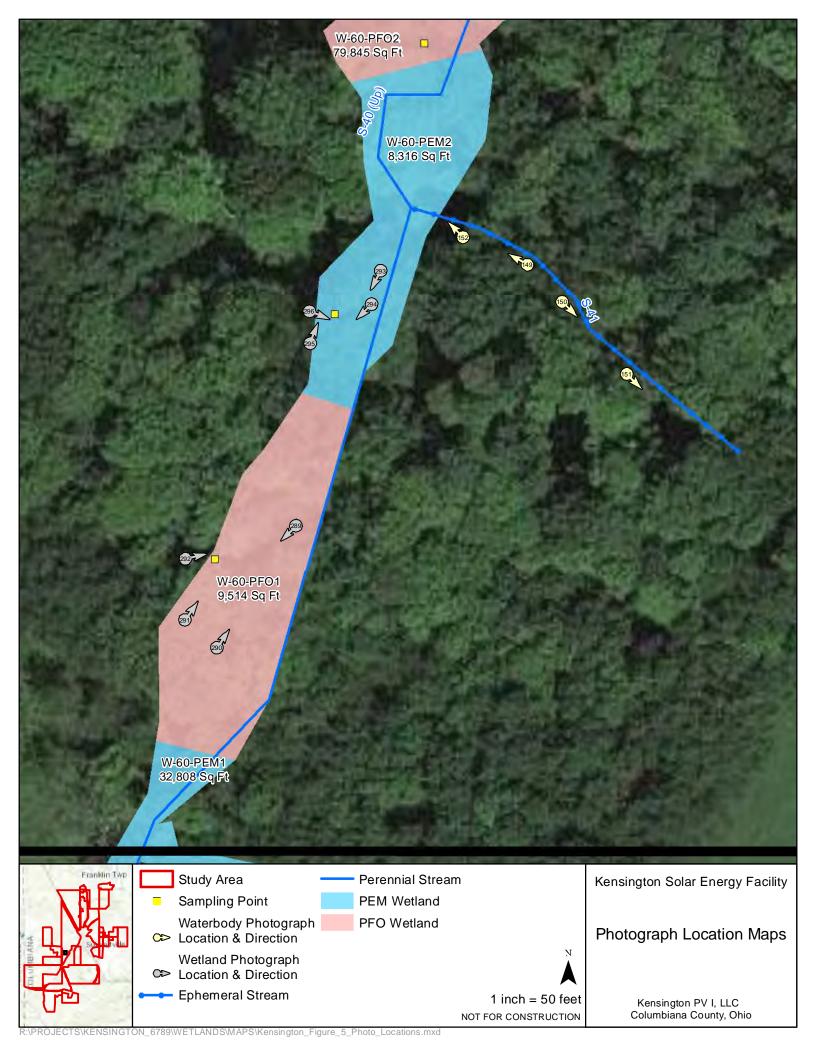
Photograph Number 295
Photograph Direction SW

Comments:



Photograph Number 296

Photograph Direction NE



Project/Site: Kensington		City/C	county: Columbiana		Sampling Date: 08/29/19				
Applicant/Owner: Kensingtor	PV I, LLC		State: OH Sampling Point: W-60-PEI						
Investigator(s): KMP, SAZ, J	23 T14N R4W								
Landform (hillslope, terrace, etc.	.): Hillslope	Local rel	Section, Township, Range: S23 T14N R4W  Local relief (concave, convex, none): Concave Slope (%): 0-5						
Subregion (LRR or MLRA): LR					Datum: NAD 83				
Soil Map Unit Name: Gilpin-C									
Are climatic / hydrologic condition	ons on the site typical f	or this time of year? Y	res No	(If no, explain in R	emarks.)				
Are Vegetation, Soil	. or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes V No				
Are Vegetation, Soil									
-					, important features, etc.				
Hudrophytic Vagatation Broser		No		·	· · · ·				
Hydrophytic Vegetation Preser Hydric Soil Present?		No	Is the Sampled Area						
Wetland Hydrology Present?		No	within a Wetland?	Yes	No				
Remarks: Cowardin Co		HGM: Slope	Water Type:	RPWWD					
Soils continued: Berks channery silt loam,	Soils continued: Berks channery silt loam, 15 to 25 percent slopes								
HYDROLOGY									
Wetland Hydrology Indicator				<u> </u>	tors (minimum of two required)				
Primary Indicators (minimum o			Surface Soil Cracks (B6)						
Surface Water (A1)		True Aquatic Plants (							
High Water Table (A2)			lydrogen Sulfide Odor (C1) Drainage Patterns (B10)  Dixidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)						
Saturation (A3)			-	Moss Trim Li					
Water Marks (B1)		Presence of Reduced Recent Iron Reduction			Water Table (C2)				
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (		Crayfish Buri	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Rer			tressed Plants (D1)				
Iron Deposits (B5)	<del></del>	Other (Explain in Nei	narko)	Geomorphic	, ,				
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aqui	, ,				
Water-Stained Leaves (B9		Microtopographic Relief (D4)							
Aquatic Fauna (B13)	•			FAC-Neutral Test (D5)					
Field Observations:									
Surface Water Present?	Yes No	Depth (inches):							
Water Table Present?	Yes No No		6						
Saturation Present?		Depth (inches):	0 Wetland H	lydrology Presen	it? Yes 🗸 No				
(includes capillary fringe)  Describe Recorded Data (streat		- ' ' '	wious inspections) if ava	ilable:					
Describe Necorded Data (stream	ani gauge, monitoring	well, aeriai priotos, pre	vious irispections), ii ava	illable.					
Remarks:									
Surface water in some ar	eas								

Sampling	Point: W-60-PEM3	3
Sambiinu	POINT. W OO I LIVE	,

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Deminant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B)
6				- ,
7				Prevalence Index worksheet:
	0	= Total Cov	er	
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%
9.				
	0	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0	20% of	total cover	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Leersia oryzoides	70		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polygonum sagittatum	25	<b>~</b>	OBL	
3. Eupatorium perfoliatum	5		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Bidens frondosa	10		FACW	
5				Definitions of Four Vegetation Strata:
6				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
7		-		more in diameter at breast height (DBH), regardless of height.
8		-		neight.
9.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		,
11	110	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55	20% of	total cover:	er 22	of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15' )	20 /0 01	total cover.		Woody vine - All woody vines greater than 3.28 ft in
				height.
1				
2		-		
3				
4		-		Hydrophytic
5				Vegetation Present? Yes   ✓ No
50% - (1-1-1		= Total Cov	_	riesent: res No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Depth	Matrix			x Features	_ 1	<del>. , ,</del>	_			
(inches)	Color (moist) 10YR 4/1	<u>%</u>	Color (moist) 7.5YR 4/4		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-16	10YR 4/1	98	7.5YR 4/4		<u>C</u>	M	SIL			
			_					-		
vpe: C=Co	oncentration, D=Depl	etion. RM=F	Reduced Matrix. MS	S=Masked S	Sand Gra	ins.	<sup>2</sup> Location: F	L=Pore Lin	ing, M=Matrix.	
	ndicators:		, , , , , , , , , , , , , , , , , , , ,						roblematic Hy	
_ Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	ipedon (A2)		Polyvalue Be	. ,	(S8) <b>(M</b>	LRA 147,			e Redox (A16)	
_ Black Hi			Thin Dark Su				, <u>—</u>	(MLRA 14		
	n Sulfide (A4)		Loamy Gleye	d Matrix (F2	2)		F	Piedmont FI	oodplain Soils	(F19)
_ Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13	36, 147)	
_ 2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6)	)		\	ery Shallov	v Dark Surface	(TF12)
	Below Dark Surface	(A11)	Depleted Dar				(	Other (Expla	in in Remarks	)
	rk Surface (A12)		Redox Depre							
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane		(F12) <b>(L</b>	.RR N,				
	147, 148)		MLRA 130	•			3.			
	leyed Matrix (S4)		Umbric Surfa						ydrophytic veg	
	edox (S5)		Piedmont Flo						ology must be p	
	Matrix (S6)		Red Parent N	riateriai (F21	I) (MLRA	4 127, 147	) ur	ness disturt	ed or problem	atic.
	ayer (if observed):									
Type:			<u>—</u>						/	
	ches):						Hydric Soi	l Present?	Yes	No
emarks:										

Wetland ID W-60-PEM3Cowardin Code PEM Date 08/29/19



Photograph Number 301
Photograph Direction East

Comments:



Photograph Number 302

Photograph Direction SW

Comments:



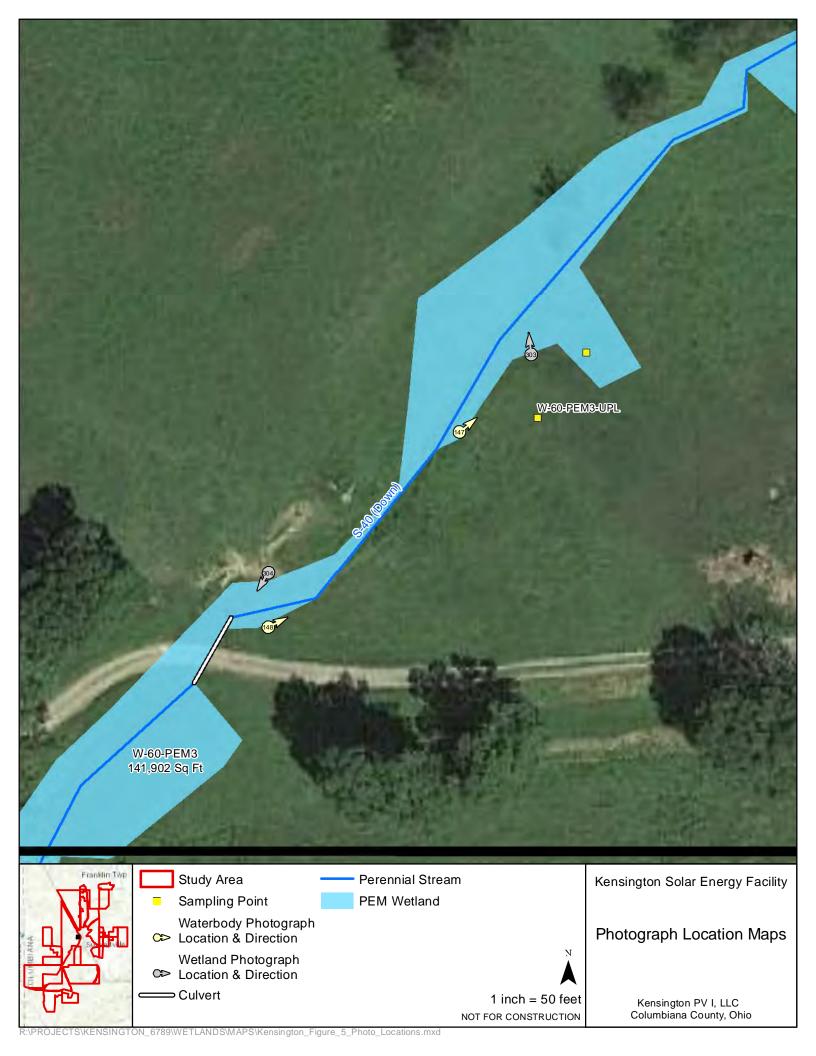
Photograph Number 303

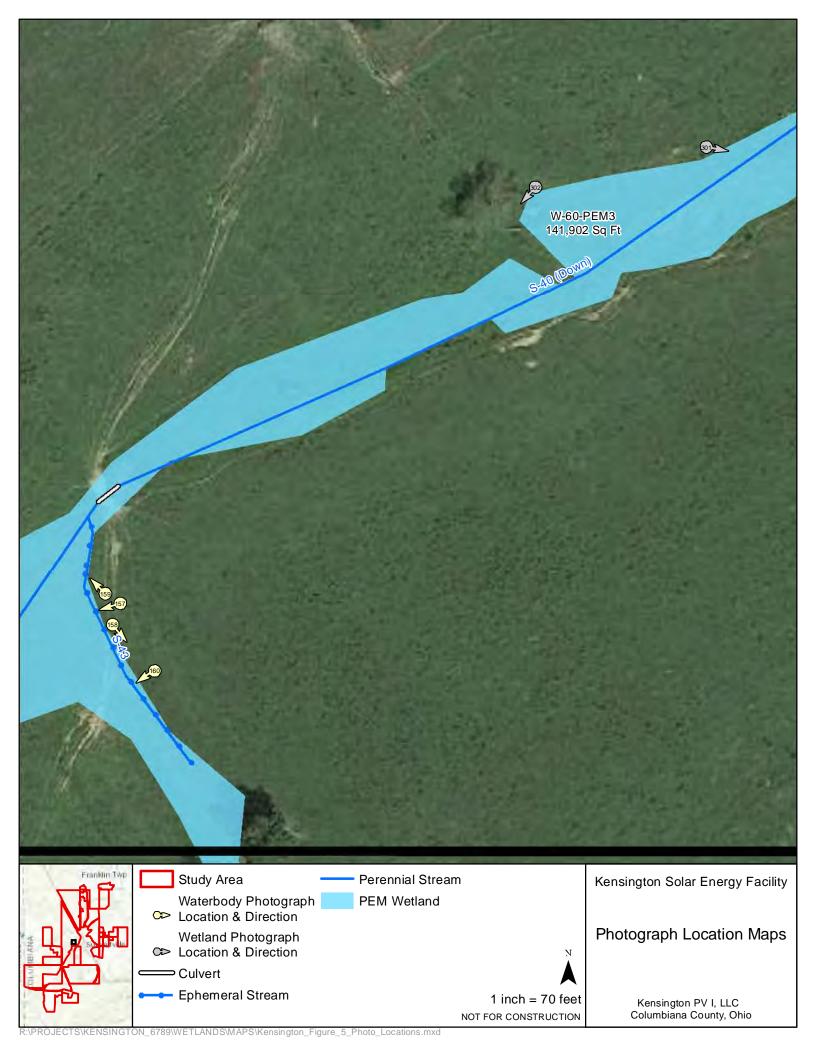
Photograph Direction North

Comments:



Photograph Number 304
Photograph Direction South





Project/Site: Kensington				City/0	County: Colum	biana		Sampling Date:	08/29/19	
Applicant/Owner: Kensingto	on PV I, L	LC			•			Sampling Point: W-60-PEM3-UP		
Investigator(s): KMP, SAZ,				Secti	ion, Township, R	ange: S2	3 T14N R4W			
Landform (hillslope, terrace, e									oe (%): 5-10	
Subregion (LRR or MLRA):										
Soil Map Unit Name: Gilpin-									· · · · · · · · · · · · · · · · · · ·	
Are climatic / hydrologic condi										
· · · · · · · ·				-					<b>/</b>	
Are Vegetation, Soil _									<u></u> No	
Are Vegetation, Soil _							xplain any answe			
SUMMARY OF FINDIN	IGS – Atta	ach site ı	map sho	owing sar	mpling point	locatio	ns, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Pres	sent?	Yes	No	<b>✓</b>	lo the Comple	nd Auga				
Hydric Soil Present?		Yes			Is the Sample within a Wetl		Yes	No 🗸		
Wetland Hydrology Present?	<b>?</b>	Yes	No	<b>✓</b>	within a vector	ana:	103		-	
Remarks: Cowardin C	ode: UPI	AND	HGM:		Water	r Type:				
		,				7,600				
HYDROLOGY										
Wetland Hydrology Indicat	ors:						Secondary Indica	tors (minimum of	two required)	
Primary Indicators (minimum	n of one is re	equired; che	ck all that	apply)			Surface Soil	Cracks (B6)		
Surface Water (A1)		<u></u>	_ True Aq	uatic Plants	(B14)		Sparsely Vec	getated Concave S	Surface (B8)	
High Water Table (A2)				en Sulfide Od			Drainage Pat		, ,	
Saturation (A3)			Oxidize	d Rhizosphe	res on Living Ro	ots (C3)	Moss Trim Li			
Water Marks (B1)			Presenc	e of Reduce	ed Iron (C4)		Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)			Recent	Iron Reduction	on in Tilled Soils	(C6)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)			_ Thin Mu	ick Surface (	(C7)		Saturation Vi	sible on Aerial Im	agery (C9)	
Algal Mat or Crust (B4)			Other (E	Explain in Re	emarks)		Stunted or St	tressed Plants (D	1)	
Iron Deposits (B5)							Geomorphic			
Inundation Visible on Ae		<sup>,</sup> (B7)					Shallow Aqui			
Water-Stained Leaves (	B9)							phic Relief (D4)		
Aquatic Fauna (B13)					1		FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present?	Voo	No. V	Donth	(inches):						
	Yes	No	_ Depth (	(inches): (inches):						
Water Table Present?		_						.o. v	/	
Saturation Present? (includes capillary fringe)	Yes	No	_ Depth (	(inches):	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vetland H	ydrology Presen	t? Yes	No	
Describe Recorded Data (str	ream gauge,	, monitoring	well, aeria	al photos, pro	evious inspection	ns), if avai	lable:			
Demonstra										
Remarks:										

Sampling	Point: W-60-F	PEM3-UPL
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Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')	% Cover	Species?	Status	Number of Dominant Species
1,				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:1 (B)
4.				eposico / torocc / tili etrata.
		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	. 0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
	-			FACU species x 4 =
2		-		UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6			_	
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8	-			2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	. 0	
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Ambrosia artemisiifolia	70	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Trifolium repens	20		FACU	
3. Setaria viridis	<del></del> 5	-	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Vernonia gigantea			F <u>AC</u>	Definitions of Four Vegetation Strata:
5. Daucus carota	5		<u>UPL</u>	
6. Euthamia graminifolia	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				no.g.m
•		-		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	110	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55		total cover:		
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
1				
2				
3	-			
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate s				
Remarks. (include prioto numbers here of off a separate s	neet.)			

Profile Desc	ription: (Describe to	the depth	needed to docur	nent the ir	ndicator o	or confirm	the abse	nce of indicate	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100					SIL			
										-
										_
										_
1- 0.0							21 .:			
	ncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.		n: PL=Pore Lini		
Hydric Soil I							ın	dicators for Pi		-
Histosol			Dark Surface		(00) (11			_ 2 cm Muck (	, .	•
	ipedon (A2)		Polyvalue Be				148) _	_ Coast Prairie	•	)
Black His			Thin Dark Su			47, 148)		(MLRA 14		· (E40)
	n Sulfide (A4) Layers (A5)		Loamy Gleye Depleted Ma		-2)		_	Piedmont Flo (MLRA 13		S (F19)
	ck (A10) <b>(LRR N)</b>		Redox Dark \$		8)			Very Shallow		۵ (TF12)
	Below Dark Surface	(A11)	Depleted Dar				_	_ Other (Expla		
	rk Surface (A12)	(,,,,	Redox Depre				_			,
	ucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangan			.RR N,				
	147, 148)		MLRA 13							
Sandy G	eyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)		<sup>3</sup> Indicators of h	ydrophytic ve	getation and
Sandy R	edox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	8)	wetland hydro	logy must be	present,
	Matrix (S6)		Red Parent N	Naterial (F2	21) <b>(MLR</b>	A 127, 147	7)	unless disturb	ed or problen	natic.
Restrictive L	ayer (if observed):									
Туре:			_							
Depth (inc	hes):		<u> </u>				Hydric	Soil Present?	Yes	No <u> </u>
Remarks:										

Project/Site: Kensington Solar		City/C	ounty: Columbiana		Sampling Date: 08/28/19
Applicant/Owner: Kensington PV I, LL	.C		,		Sampling Point: W-60-PFO
		Section	on, Township, Range: S2		<u> </u>
Landform (hillslope, terrace, etc.): Flood	olain	Local reli	ef (concave, convex, nor	ne): Concave	Slope (%): 0-5
Subregion (LRR or MLRA): LRRN					Datum: NAD 83
Soil Map Unit Name: Gilpin-Coshoctor					
Are climatic / hydrologic conditions on the s	site typical f	or this time of year? Y	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hyd	drology	significantly disturb	oed? Are "Normal	Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hyd				explain any answe	
SUMMARY OF FINDINGS – Atta			•		
Hydrophytic Vegetation Present?	Yes 🗸	No			
	Yes 🗸		Is the Sampled Area within a Wetland?	Vac V	No
	Yes 🗸	No	within a wetland?	res	NO
Remarks: Cowardin Code: PFO		HGM: Riverine	Water Type:	RPWWD	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is req	uired; chec	ck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (I	B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pat	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced	, ,		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)	(D7)			Geomorphic	
Inundation Visible on Aerial Imagery ( Water-Stained Leaves (B9)	(D <i>l</i> )			Shallow Aqui	uphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	
Field Observations:				1710 11000101	1001 (20)
	No 🗸	_ Depth (inches):			
		_ Depth (inches):			
		_ Depth (inches):		lvdrology Presen	t? Yes <u>/</u> No
(includes capillary fringe)		- , , , , , , , , , , , , , , , , , , ,			<u></u> <u></u> .
Describe Recorded Data (stream gauge,	monitoring '	well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					
romano.					

Sampling Point: \	W-	60-	·P	F	C	1
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30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Acer rubrum	40		FAC	That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B)
6				That Ald OBE, I AOW, OF I AO.
7.				Prevalence Index worksheet:
·· <u></u>	40	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 20				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8	-			✓ 2 - Dominance Test is >50%
9				<del></del>
	0	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Bidens frondosa	5		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Pilea pumila	10		FACW	
3. Persicaria maculosa	20		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Osmorhiza claytonii	10		FACU	be present, unless disturbed or problematic.
5. Impatiens capensis	10			Definitions of Four Vegetation Strata:
	20		FACW OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Leersia virginica				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	75	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>37.5</u>				
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				neight.
2.				
3				
4				Hydrophytic
5				Vegetation Present? Yes   ✓ No
		= Total Cov	_	Present? Yes V No No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-60-PFO1

Depth	ription: (Describe to Matrix			x Features			i maioatoroi,		
(inches)	Color (moist)	%	Color (moist)	%Ty	pe <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	R	emarks	
0-4	10YR 4/2	90	7.5YR 4/6	<u>10</u> C	<u>M</u>	SIL			
4-15	10YR 4/1	90	7.5YR 4/6	<u>10</u> C	<u>M</u>	SIL			
			<u> </u>	<del></del>	,				
						<u> </u>			
	-	-							
					<del></del> , _ <del></del>				
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: PL=			3
-	Indicators:						ors for Proble		
_ Histosol	, ,		Dark Surface	. ,	o) (141 D 4 4 4 7		m Muck (A10)		7)
	oipedon (A2)			low Surface (S			ast Prairie Red		
Black Hi	en Sulfide (A4)			rface (S9) <b>(ML</b> ed Matrix (F2)	RA 147, 148)		(MLRA 147, 14 edmont Floodpla		<b>-10</b> )
	d Layers (A5)		Depleted Ma				(MLRA 136, 14		19)
	ick (A10) <b>(LRR N)</b>		Redox Dark \$				ry Shallow Darl		TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)			ner (Explain in I		,
	ark Surface (A12)		Redox Depre	essions (F8)					
	lucky Mineral (S1) <b>(L</b>	.RR N,		ese Masses (F	12) <b>(LRR N,</b>				
	A 147, 148)		MLRA 13	•		2			
	Gleyed Matrix (S4)			ce (F13) (MLR			ators of hydrop		
	ledox (S5)			odplain Soils (			and hydrology i		
	Matrix (S6)  _ayer (if observed):		Red Parent N	Material (F21) (	MLRA 127, 14	/) unie	ss disturbed or	problemat	IC.
	Layer (ii observed):								
Type:								~	
	ches):		<u> </u>			Hydric Soil P	resent? Yes	s	No
emarks:									

Wetland ID W-60-PFO1 Cowardin Code PFO Date 08/28/19



Photograph Number <u>289</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number <u>290</u>
Photograph Direction NE

Comments:



Photograph Number 291

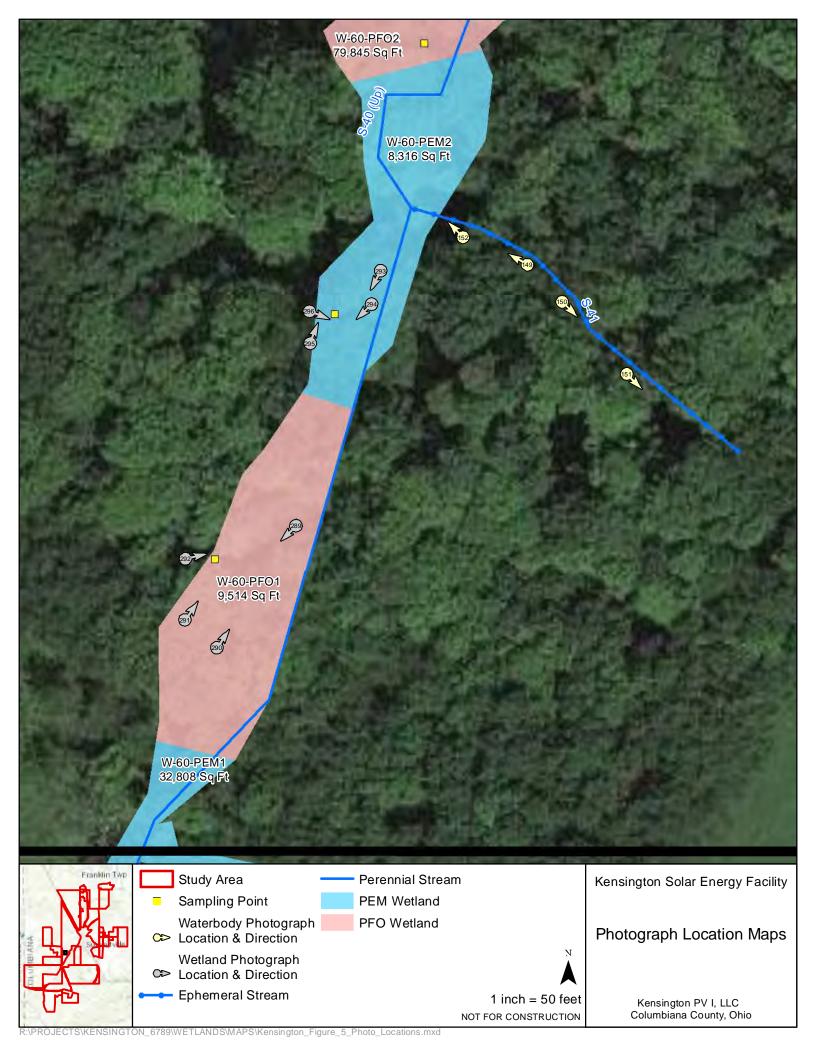
Photograph Direction East

Comments:



Photograph Number 292

Photograph Direction NE



Project/Site: Kensington Solar	City/0	County: Columbiana		Sampling Date: 08/28/19
Applicant/Owner: Kensington PV I, LLC	,	•		Sampling Point: W-60-PFO2
Investigator(s): KMP, SAZ, JL	Secti	on, Township, Range: S2	23 T14N R4W	<u> </u>
Landform (hillslope, terrace, etc.): Floodpl	ain Local re	lief (concave, convex, nor	ne): Concave	Slope (%): 0-5
Subregion (LRR or MLRA): LRRN	Lat. 40.677693			Datum: NAD 83
Soil Map Unit Name: Gilpin-Coshocton	silt loams, 6 to 15 percen	t slopes	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site	e typical for this time of year?	res 🗸 No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydro	•			oresent? Yes No
Are Vegetation, Soil, or Hydro			explain any answe	
SUMMARY OF FINDINGS – Attack				,
				, , ,
, , , ,	es <u> </u>	Is the Sampled Area	. 4	
•	es No No	within a Wetland?	Yes	No
Remarks: Cowardin Code: PFO	HGM: Riverine	Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Par	tterns (B10)
Saturation (A3)		=		
Water Marks (B1)	Presence of Reduce	, ,		Water Table (C2)
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Buri	
Drift Deposits (B3)	Thin Muck Surface (			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Geomorphic	tressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B	7)		Shallow Aqui	
Water-Stained Leaves (B9)	' /			aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:			<u> </u>	· · · ·
	No Depth (inches):			
	No Depth (inches):			
	No Depth (inches):		lydrology Presen	it? Yes 🗸 No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	evious inspections), if ava	illable:	
Remarks:				

#### VEGETATION (Four Strata) - Use scientific names of plants.

2. Prunus serotina

Sapling/Shrub Stratum (Plot size: 15' )

3. Leersia virginica

4. Polygonum sagittatum

Woody Vine Stratum (Plot size: \_\_\_\_15' \_\_\_\_)

1. Rosa multiflora

Herb Stratum (Plot size: \_ 1. Impatiens capensis

2. Glyceria striata

6.\_\_\_\_\_

Tree Stratum (Plot size: \_

1. Acer rubrum

- Use scientific n	ames or	piants.		Samp	ling Point: V	V-00-F1	02
\	Absolute	Dominant		Dominance Test work	sheet:		
)	25	Species?	FAC	Number of Dominant Sp		5	(4)
	10		FACU	That Are OBL, FACW, o	or FAC:		(A)
			FACU_	Total Number of Domini Species Across All Stra		7	(B)
				Percent of Dominant Sp That Are OBL, FACW, o		71%	_ (A/B
		-		Prevalence Index worl	ksheet:		
	35	= Total Cov	ver	Total % Cover of:	Mu	Itiply by:	
% of total cover:17.5				OBL species	x 1 =		_
15'				FACW species	x 2 = _		_
	30	~	FACU	FAC species	x 3 =		_
				FACU species	x 4 = _		_
				UPL species	x 5 = _		
				Column Totals:	(A)		(B)
		-		Prevalence Index	= B/A =		
				Hydrophytic Vegetation			
				1 - Rapid Test for H	lydrophytic Ve	getation	
				✓ 2 - Dominance Tes			
				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>		
4.5		= Total Cov	_	4 - Morphological A	daptations1 (F	rovide su	pportin
0% of total cover:15	20% of	total cover	:6	data in Remarks			
)	20	~	FACW	Problematic Hydrop	hytic Vegetati	ion¹ (Expla	ain)
	30		- <del></del>		,	- ( 1	,
	20		OBL	<sup>1</sup> Indicators of hydric soil	and wetland I	hvdrologv	must
	20		OBL	be present, unless distu			
	30		OBL	Definitions of Four Ve	getation Stra	ta:	
				Tree – Woody plants, e more in diameter at bre height.			
				Sapling/Shrub – Wood than 3 in. DBH and gream) tall.			
0% of total cover: 50		= Total Cov		Herb – All herbaceous of size, and woody plan	(non-woody) p ts less than 3.	lants, rega 28 ft tall.	ardless
0% of total cover: <u>50</u> )	20 % 01		. <u></u>	Woody vine – All wood height.	y vines greate	er than 3.2	8 ft in
				Hydrophytic Vegetation			
	0 .	= Total Cov	ver		s <u> 🗸</u> No		
0% of total cover: 0		total cover	_				

Remarks: (Include photo numbers here or on a separate sheet.)

.mahaa)	Matrix	0/		x Features	/pe <sup>1</sup> Loc <sup>2</sup>	Toyeturo		Domorko	
inches) 0-4	Color (moist) 10YR 4/2	<u>%</u> 90	Color (moist) 7.5YR 4/6	10 C		Texture SIL		Remarks	
				<del></del>					
4-15	10YR 4/1	90	7.5YR 4/6	<u>10</u> <u>C</u>	<u> </u>	SIL			
					<del></del>		-		
						<del></del>			
							_		
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sa	nd Grains.	<sup>2</sup> Location: PL			
	ndicators:							oblematic Hy	
Histosol			Dark Surface		20) (14) 24 44			(A10) (MLRA 1	
	ipedon (A2)				S8) <b>(MLRA 147</b>	, <b>148)</b> Co		Redox (A16)	
Black His	n Sulfide (A4)		Loamy Gleye		_RA 147, 148)	Di	(MLRA 14)	odplain Soils	(F10)
	Layers (A5)		Depleted Mat				(MLRA 13	•	(119)
	ck (A10) <b>(LRR N)</b>		Redox Dark S			Ve		Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dar		)		•	n in Remarks	, ,
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8)					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		-12) <b>(LRR N,</b>				
	147, 148)		MLRA 13	•		2			
-	leyed Matrix (S4)		Umbric Surfa					drophytic veg	
-	edox (S5)				(F19) <b>(MLRA 1</b> 4		-	ogy must be p	
	Matrix (S6)		Red Parent N	riateriai (F21)	(MLRA 127, 14	7) uni	ess disturbe	ed or problem	atic.
atriativa l									
	ayer (if observed):								
Туре:								/	
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	No
Туре:			<u>_</u>			Hydric Soil	Present?	Yes 🗸	No
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes V	No
Type: Depth (inc						Hydric Soil	Present?	Yes V	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes V	No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type: Depth (inc						Hydric Soil	Present?	Yes V	. No
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	. No
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	. No
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	No
Type:						Hydric Soil	Present?	Yes 🗸	No
Type:						Hydric Soil	Present?	Yes	No
Type:						Hydric Soil	Present?	Yes	. No
Type: Depth (inc						Hydric Soil	Present?	Yes 🗸	. No
Type: Depth (inc						Hydric Soil	Present?	Yes	. No
Type: Depth (inc						Hydric Soil	Present?	Yes	No
Type:						Hydric Soil	Present?	Yes	No

Wetland ID W-60-PFO2 Cowardin Code PFO Date 08/28/19



Photograph Number <u>297</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number <u>298</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number 299

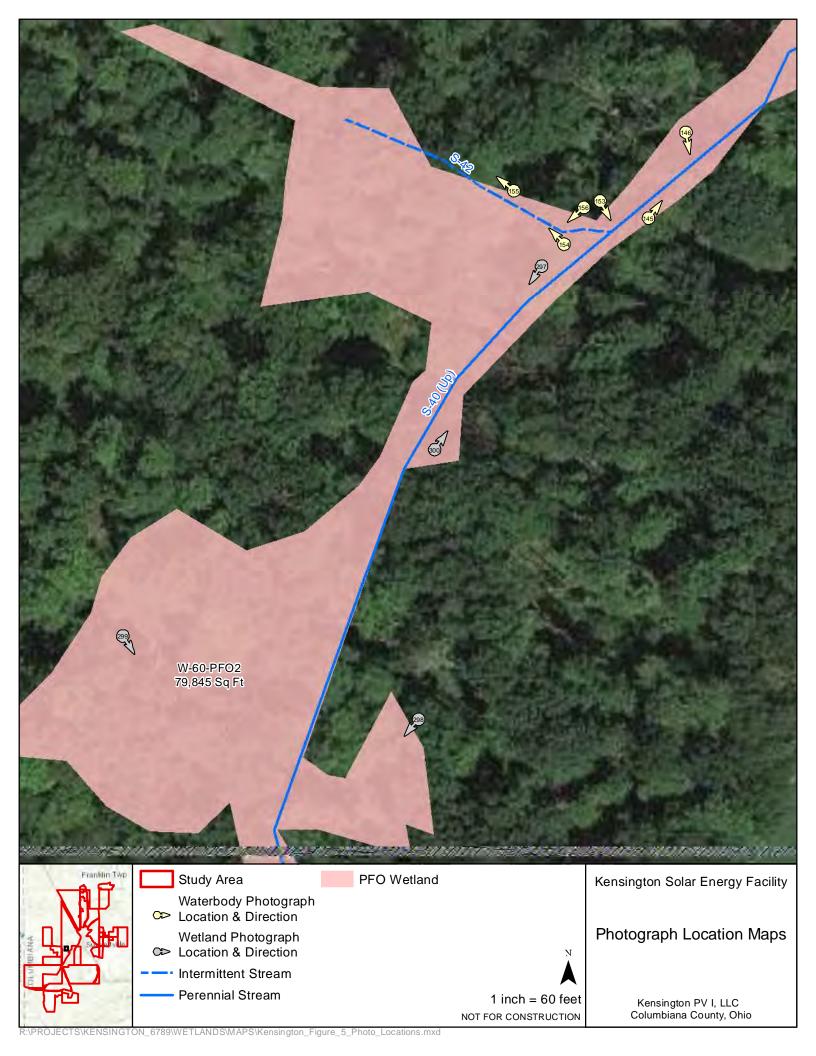
Photograph Direction SE

Comments:



Photograph Number 300

Photograph Direction NE



Project/Site: Kensington Solar	City/C	County: Columbiana		Sampling Date: 08/28/19
Applicant/Owner: Kensington PV I, LLC		,		Sampling Point: W-60-UPL
Investigator(s): KMP, SAZ, JL	Section Section	on, Township, Range: S2	23 T14N R4W	
Landform (hillslope, terrace, etc.): Hillslope	Local rel	ief (concave, convex, nor	ne): Concave	Slope (%): 0-5
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Gavers silt loam, 2 to	6 percent slopes	Long	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	es No	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolo				_
Are Vegetation, Soil, or Hydrolo				
SUMMARY OF FINDINGS – Attach				
		ipg pe	,	, <b>p</b>
	No	Is the Sampled Area		4
	No	within a Wetland?	Yes	No
Demandra		)A/ ( T		
Cowardin Code: UPLAND	HGM:	Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	l: check all that apply)		Surface Soil	
Surface Water (A1)	True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	Oxidized Rhizospher		Moss Trim Li	
Water Marks (B1)	Presence of Reduced	= : : :		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	, ,	Crayfish Burn	
Drift Deposits (B3)	Thin Muck Surface (0		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer			tressed Plants (D1)
Iron Deposits (B5)		,	Geomorphic	
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	, ,
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:				. ,
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		lydrology Presen	it? Yes No ✔
(includes capillary fringe)				103 110
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	evious inspections), if ava	ilable:	
Remarks:				

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

5. Plantago lanceolata

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size:

3. Trifolium pratense

6. Dactylis glomerata

7. Plantago major

4. Setaria viridis

1. Ambrosia artemisiifolia 2. Cichorium intybus

\_\_\_)

50% of total cover: \_\_\_0

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

50% of total cover: \_\_\_0\_\_ 20% of total cover: \_\_0\_

nes of	plants.		Sampling	Poin	<sub>t:</sub> W-60-L	JPL
bsolute	Dominant	Indicator	Dominance Test workshee	et:		
% Cover	Species?	Status	Number of Dominant Specie That Are OBL, FACW, or FA		0	(A)
			Total Number of Dominant Species Across All Strata:	_	2	(B)
			Percent of Dominant Specie That Are OBL, FACW, or FA		0	(A/B
		· <u></u>	Prevalence Index workshe	et:		
			Total % Cover of:		Multiply by:	
	= Total Cov total cover:	_			=	
20% 01	total cover		FACW species			
			' -	_	=	_
			FACU species		=	_
			UPL species		=	
			Column Totals:	_		
			Prevalence Index = B	/A = _		
		·	Hydrophytic Vegetation In	dicato	rs:	
			1 - Rapid Test for Hydro	phytic	Vegetation	
			2 - Dominance Test is >	50%		
0 :			3 - Prevalence Index is	≤3.0 <sup>1</sup>		
	= Total Cov total cover:	_	4 - Morphological Adapt	tations	(Provide su	oportin
2070 01	total cover.		data in Remarks or o	on a se	parate sheet	)
5		FACU	Problematic Hydrophytic	c Vege	tation <sup>1</sup> (Expla	ain)
5		FACU				
5		FACU	<sup>1</sup> Indicators of hydric soil and			must
40	~	FACU	be present, unless disturbed			
5		FACU	Definitions of Four Vegeta	tion 5	ırata:	
35	~	FACU	Tree - Woody plants, exclude	ding vir	nes, 3 in. (7.6	cm) o
5		FACU	more in diameter at breast height.	eight (	DBH), regard	lless of
			Sapling/Shrub – Woody pla than 3 in. DBH and greater t m) tall.			
	= Total Cov		Herb – All herbaceous (non- of size, and woody plants le			ardless
20% of	total cover:	20	Woody vine – All woody vir height.	nes gre	ater than 3.2	8 ft in
	= Total Cov	^	Hydrophytic Vegetation Present? Yes		No <u> </u>	

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	are acpui	needed to document the indicator or or Redox Features	John III ale al	Joseph Of Mulcall	,	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	_oc <sup>2</sup> Tex	ture	Remarks	
0-12	10YR 4/4	100		S	SIL		
				<del></del>	<del></del>		
				<del></del>	<del></del>		
<sup>1</sup> Type: C=Co	ncentration D=Den	etion RM-R	educed Matrix, MS=Masked Sand Grains		tion: PL=Pore Lini	ing M-Matrix	
Hydric Soil I		Cuon, rawi–ra	eddeed Matrix, Mo-Masked Garid Grains	3. Loca	Indicators for P		dric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			A10) <b>(MLRA 1</b>	
	ipedon (A2)		Polyvalue Below Surface (S8) (MLF	Λ 1/7 1/8\		Redox (A16)	41)
Black His			Thin Dark Surface (S9) (MLRA 147		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	, 140)		oodplain Soils	(F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(1-15)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			v Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			in in Remarks)	
	rk Surface (A12)	, , , , ,	Redox Depressions (F8)				
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LR	R N.			
	147, 148)	<b>-</b> ,	MLRA 136)	,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122)	<sup>3</sup> Indicators of h	vdrophytic vea	etation and
	edox (S5)		Piedmont Floodplain Soils (F19) (M			logy must be p	
	Matrix (S6)		Red Parent Material (F21) (MLRA 1			ed or problema	
	ayer (if observed):			Ť		•	
Type:	,						
	ches):		<del>_</del>	Hydi	ric Soil Present?	Yes	No 🗸
	nies)		_	Пуш	iic Soii Fresent:	163	NO
Remarks:							

Project/Site: Kensington		City/C	County: Columbiana		Sampling Date: 08/29/19
Applicant/Owner: Kensingto	n PV I, LLC	,			Sampling Point: W-62
Investigator(s): KMP, SAZ,	JL		on, Township, Range: S2		
Landform (hillslope, terrace, etc	<sub>c.):</sub> Hillslope	Local rel	ief (concave, convex, nor	ne): Concave	Slope (%): 5-10
Subregion (LRR or MLRA): LI					Datum: NAD 83
Soil Map Unit Name: Orrville	silt loam, 0 to	B percent slopes,	occasionally flood	ed NWI classific	eation: N/A
Are climatic / hydrologic conditi	ions on the site typica	for this time of year? Y	′es No	(If no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	l Circumstances" p	present? Yes No
Are Vegetation, Soil					
-					, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	, No			
Hydric Soil Present?		No	Is the Sampled Area	V V	No
Wetland Hydrology Present?			within a Wetland?	Yes	NO
B 1	ode: PEM		Water Type:	RPWWD	
Impacted by cattle grazi	ng				
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is required; che	eck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	_	_ True Aquatic Plants (	(B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		_ Hydrogen Sulfide Od		Drainage Pa	tterns (B10)
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	_	_ Presence of Reduced	` '		Water Table (C2)
Sediment Deposits (B2)	<del>-</del>	Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)	_	_ Thin Muck Surface (0			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		tressed Plants (D1)
Iron Deposits (B5)	(D=)				Position (D2)
Inundation Visible on Aer				Shallow Aqu	
Water-Stained Leaves (B	19)			✓ FAC-Neutral	aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:	Was No W	Denth (Seekee)			
Surface Water Present?		Depth (inches):	3		
Water Table Present?	Yes No				
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland F	lydrology Preser	nt? Yes V No
Describe Recorded Data (stre	eam gauge, monitoring	g well, aerial photos, pre	evious inspections), if ava	ailable:	
Remarks:					
Surface water in some a	ireas				

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-62

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3					(B)
4				Demonstrat Demoise of Operation	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50%	(A/B)
6					(700)
7				Prevalence Index worksheet:	
•:	0 -	= Total Cov		Total % Cover of: Multiply by:	
50% of total cover: 0			_	OBL species30 x 1 =30	
Sapling/Shrub Stratum (Plot size: 15' )	20 /0 01	total cover.		FACW species10 x 2 =20	
Caping/ornab oratain (1 lot 312c)				FAC species 0 x 3 = 0	
1				FACU species 20 x 4 = 80	
2				UPL species	
3				60 120	<b>(D)</b>
4				Column Totals: 60 (A) 130	(B)
5				Prevalence Index = B/A = 2.2	
6				Hydrophytic Vegetation Indicators:	
7					
8				1 - Rapid Test for Hydrophytic Vegetation	
9		,		2 - Dominance Test is >50%	
<u> </u>	0 -	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 0		total cover:	_	4 - Morphological Adaptations <sup>1</sup> (Provide supp	orting
Herb Stratum (Plot size: 5' )	2070 01	total oovor		data in Remarks or on a separate sheet)	
1. Poa compressa	20	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	1)
2. Juncus effusus	10		FACW		
3. Schoenoplectus tabernaemontani	10	-		<sup>1</sup> Indicators of hydric soil and wetland hydrology me	ust
		-	OBL	be present, unless disturbed or problematic.	
4. Scirpus atrovirens	<u>10</u> 40		OBL	Definitions of Four Vegetation Strata:	
5. Leersia oryzoides			OBL	Tree Woods plants evaluating since 2 in /7 6 as	m) or
6. Carex vulpinoidea	10		OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles	
7				height.	
8				Continue/Chrush Woody plants avaluating vines I	lana
9				Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than or equal to 3.28 f	
10				m) tall.	
11.		,		Horte All back account (see a consider) plants reconstruction	
	100	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	iless
50% of total cover: 50		total cover:		or oregin and modely plante loop than ore than	
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines greater than 3.28 f	ft in
				height.	
1					
2					
3					
4				Hydrophytic	
5				Vegetation	
	0	= Total Cov	_	Present? Yes No	
50% of total cover:0	20% of	total cover:	0		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   Texture   Rem	aiks
S-14	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Cacation: PL=Pore Lining, M=Moderators for Problema	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (ML	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (ML Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) Piedmont Floodplain Stratified Layers (A5) Depleted Matrix (F2) Piedmont Floodplain (MLRA 136, 147) Very Shallow Dark Stratified Layers (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Stratified Dark Surface (A12) Redox Depressions (F8) Other (Explain in Renovable Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophyte sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or prostrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes Coast Prairie Redox (A10) Predox Problematics (A10) (MLRA 127, 147) Unless disturbed (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 120, A10) (MLRA	
Histosol (A1)	
Histosol (A1)	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (ML Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) Piedmont Floodplain Stratified Layers (A5) Depleted Matrix (F2) Piedmont Floodplain (MLRA 136, 147) Very Shallow Dark Stratified Layers (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Stratified Dark Surface (A12) Redox Depressions (F8) Other (Explain in Renovable Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophyte sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or prostrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes Coast Prairie Redox (A10) Predox Problematics (A10) (MLRA 127, 147) Unless disturbed (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 127, A10) Coast Prairie Redox (A10) (MLRA 120, A10) (MLRA	
Histosol (A1)	atrix.
Histic Epipedon (A2)	
Histic Epipedon (A2)	RA 147)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Stratified Layers (A5) Depleted Matrix (F3)	A16)
Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Matrix (F3)  MURA 136, 147)	
2 cm Muck (A10) (LRR N)	Soils (F19)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches):  Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Depleted Dark	rrfo.co (TC12)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Fiedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
	iamoj
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or prostrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes	
Red Parent Material (F21) (MLRA 127, 147) unless disturbed or procestrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes	-
Pestrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes	
Type:	blematic.
Depth (inches): Hydric Soil Present? Yes _	
	✓ No
marks:	NO

Wetland ID W-62 Cowardin Code PEM Date 08/29/19



Photograph Number 305

Photograph Direction NW

Comments:



Photograph Number 306

Photograph Direction SW

Comments:

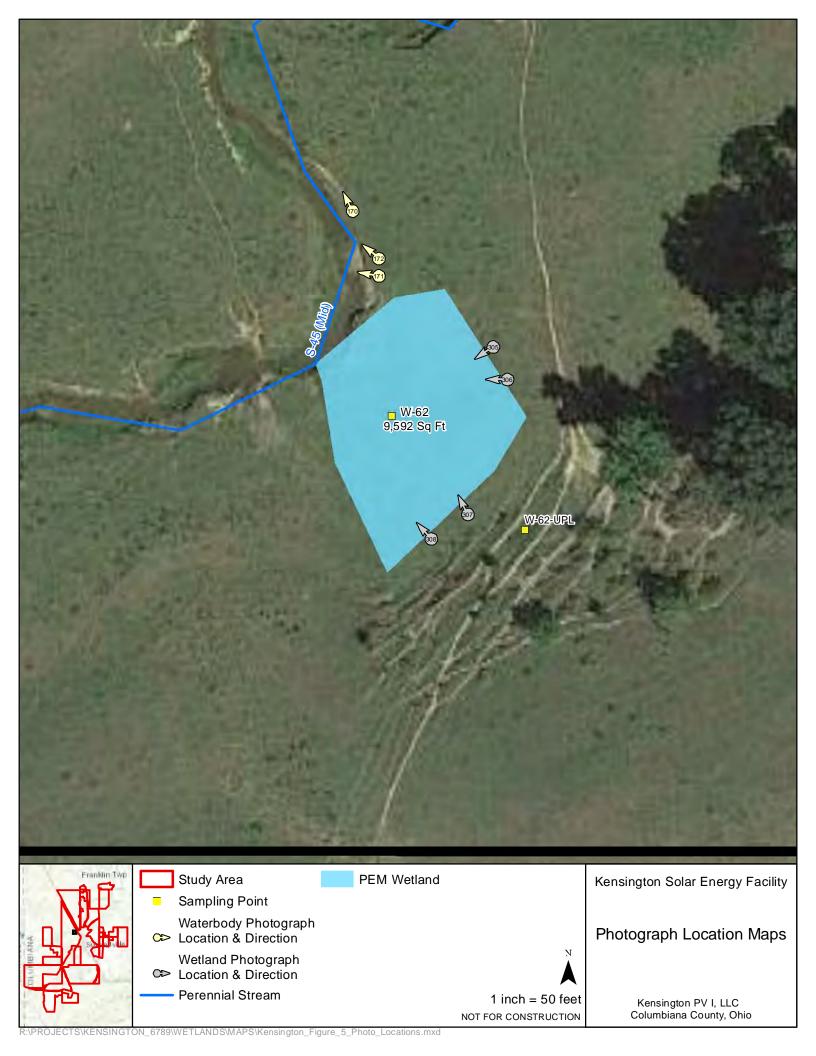


Photograph Number 307
Photograph Direction West

Comments:



Photograph Number 308
Photograph Direction NW



Project/Site: Kensington Solar	City/C	County: Columbiana		Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-62-UPL
	Section Sectio	on, Township, Range: S2	3 T14N R4W	
Landform (hillslope, terrace, etc.): Hillslope	Local rel	ief (concave, convex, non	e): Concave	Slope (%): 5-10
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Berks channery silt				
Are climatic / hydrologic conditions on the site	typical for this time of year?	′es <u> <b>/</b> </u>	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrole	ogy significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes V No
Are Vegetation, Soil, or Hydrole			xplain any answe	
SUMMARY OF FINDINGS – Attach				
				, , ,
	No V	Is the Sampled Area		
	8 No V	within a Wetland?	Yes	No
Damania		Mater Type:		
Cowardin Code: UPLANI	) HGM:	Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (	(B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (0	C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rei	marks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:				
	o Depth (inches):			
Water Table Present? Yes N	o Depth (inches):			
	o Depth (inches):	Wetland H	ydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	evious inspections), if avai	lable:	
Remarks:				

### VEGETATION (Four Strata) - Use scientific names of plants.

6.\_\_\_\_\_

Sapling/Shrub Stratum (Plot size: 15' )

3. Plantago lanceolata

Woody Vine Stratum (Plot size: 15')

Tree Stratum (Plot size: \_\_

1. Rubus allegheniensis

2 Rosa multiflora

Herb Stratum (Plot size: 1. Phleum pratense

2. Trifolium pratense

4. Daucus carota

Strata) – Use scientific r		-		Sampling Point: W	-02-01 L
30'	Absolute % Cover	Dominant Species?		Dominance Test worksheet:	
	<u> </u>	<u>Species :</u>	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
				Total Number of Dominant Species Across All Strata:	5 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/
				Prevalence Index worksheet:	
	0	= Total Cov	/er	Total % Cover of: Multi	iply by:
50% of total cover:0		total cover:	_	OBL species x 1 =	
Plot size: 15'				FACW species x 2 =	
s	10	~	FACU	FAC species x 3 =	
	10	~	FACU	FACU species x 4 =	
				UPL species x 5 =	
	- ————————————————————————————————————			Column Totals: (A)	(E
				Prevalence Index = B/A =	
		-		Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Veg	etation
		-		2 - Dominance Test is >50%	
			- ——	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
1		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Pro	ovide support
50% of total cover: 10	20% of	total cover:	:4	data in Remarks or on a separa	ite sheet)
)	30	~	FACU	Problematic Hydrophytic Vegetatio	n <sup>1</sup> (Explain)
	30		FACU		
	20		FACU	<sup>1</sup> Indicators of hydric soil and wetland hy	drology must
	10			be present, unless disturbed or problem	
		-	UPL	Definitions of Four Vegetation Strata	1:
	-		- <u> </u>	Tree – Woody plants, excluding vines, more in diameter at breast height (DBH height.	
			· —	Sapling/Shrub – Woody plants, excluding 3 in. DBH and greater than or equipm) tall.	
4.5		= Total Cov		Herb – All herbaceous (non-woody) pla of size, and woody plants less than 3.2	
50% of total cover: <u>45</u> ot size: <u>15'</u> )	20% of	total cover	: 18	Woody vine – All woody vines greater height.	than 3.28 ft ir
	0	Total Co		Hydrophytic Vegetation Present? Yes No	V
50% of total cover: 0		= Total Cov total cover:	_		

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	acpar	needed to document the indicator or Redox Features		Joseph Midiodic	<del>,</del>	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks	
0-12	10YR 4/4	100		5	SIL		
				-			
			<del></del>				
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS=Masked Sand Grain	ns. <sup>2</sup> Loca	tion: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil I					Indicators for P		
Histosol	(A1)		Dark Surface (S7)		2 cm Muck (	A10) <b>(MLRA 1</b>	47)
	ipedon (A2)		Polyvalue Below Surface (S8) (ML	RA 147, 148)		Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA 14		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			oodplain Soils	(F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13	6, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallov	/ Dark Surface	(TF12)
Depleted	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks)	)
	rk Surface (A12)		Redox Depressions (F8)				
	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Manganese Masses (F12) (LI	RR N,			
	147, 148)		MLRA 136)		_		
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136		<sup>3</sup> Indicators of h		
	edox (S5)		Piedmont Floodplain Soils (F19) (F		wetland hydro		
	Matrix (S6)		Red Parent Material (F21) (MLRA	127, 147)	unless disturb	ed or problem	atic.
Restrictive L	.ayer (if observed):						
Type:			<u>_</u>				
Depth (inc	ches):		_	Hyd	ric Soil Present?	Yes	No 🖊
Remarks:							

Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-63
	Section, Township, Range: S	23 T14N R4W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	one): Linear Slope (%): 3-5
Subregion (LRR or MLRA): LRRN	Lat: 40.685888 Long: -80	0.894332 Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to 3	percent slopes, occasionally flooded	NWI classification: N/A
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norma	ıl Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	V No lo the Sempled Area	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	Is the Sampled Area	
Wetland Hydrology Present? Yes		Yes No
Demarks	HGM: Depressional Water Type:	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:	,	
	Depth (inches):	
	Depth (inches):	_
	Depth (inches): Wetland I	Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	I ing well, aerial photos, previous inspections), if ava	ailable:
, , ,		
Remarks:		

### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-63

201	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	4	(A)
2				, ,		( )
				Total Number of Dominant	4	
3			·	Species Across All Strata:	4	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				That Ale OBE, I NOV, of I No.		(700)
				Prevalence Index worksheet:		
7	_	-		Total % Cover of:	Multiply by:	
		= Total Cov		OBL species x		
50% of total cover: 0	20% of	total cover	:0			
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x		
1				FAC species x	3 =	_
2				FACU species x	4 =	_
				UPL species x		
3		-		Column Totals: (A		
4			· ——	Column rotals (A	.)	_ (D)
5				Prevalence Index = B/A =		
6						
				Hydrophytic Vegetation Indica		
7				1 - Rapid Test for Hydrophy	tic Vegetation	
8			<del></del>	✓ 2 - Dominance Test is >50%	, D	
9				3 - Prevalence Index is ≤3.0		
	0 :	= Total Cov	/er			nortina
50% of total cover:0	20% of	total cover	: 0	4 - Morphological Adaptation		
Herb Stratum (Plot size: 5' )	<u></u>			data in Remarks or on a	separate sheet)	
1. Juncus effusus	30	<b>/</b>	FACW	Problematic Hydrophytic Ve	getation1 (Expla	in)
	20		OBL			
2. Carex frankii				<sup>1</sup> Indicators of hydric soil and wet	land hydrology r	must
3. Mentha x piperita	5		FACW	be present, unless disturbed or p		iiust
4. Poa trivialis	20	<b>✓</b>	<b>FACW</b>	Definitions of Four Vegetation		
5. Carex vulpnoidea	20		OBL	Definitions of Four Vegetation	Strata.	
			<u> </u>	Tree – Woody plants, excluding	vines, 3 in. (7.6	cm) or
6				more in diameter at breast heigh	it (DBH), regard	less of
7				height.		
8				Senting/Shouth Woody plants		looo
9				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	or equal to 3.28	, 1655 R ft (1
10				m) tall.	01 0quai to 0.20	, , , ( ,
11		-		Herb – All herbaceous (non-woo		rdless
4-7.		= Total Cov		of size, and woody plants less th	an 3.28 ft tall.	
50% of total cover: 47.5	20% of	total cover	: 19	Woody vine – All woody vines g	reater than 3 28	R ft in
Woody Vine Stratum (Plot size:15')				height.	jicator triair 5.20	, , , , , , ,
1				- 3		
2						
			· ——			
3						
4				Hydrophytic		
5				Vegetation		
	0 .	= Total Cov	/er	Present? Yes	No	
50% of total cover: 0		total cover				
Remarks: (Include photo numbers here or on a separate s						
Remarks. (include prioto numbers here of on a separate s	ileet.)					

Depth	ription: (Describe t		Redo	x Features			
(inches)	Color (moist)	<u>%</u>	Color (moist)		ype <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-12	10YR 4/1	75	7.5YR 4/6		<u>M/PL</u>	SIL	
							-
						·	
					<del></del>		
							-
vne: C=Cc	oncentration, D=Depl	etion. RM=R	Reduced Matrix, MS	S=Masked Sa	nd Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
	ndicators:	<u> </u>	touuoou mamm, m	, maono a o a			ators for Problematic Hydric Soils
_ Histosol			Dark Surface	(S7)			2 cm Muck (A10) <b>(MLRA 147)</b>
	ipedon (A2)			, ,	S8) (MLRA 147		Coast Prairie Redox (A16)
Black His					LRA 147, 148)	· · · —	(MLRA 147, 148)
_ Hydroge	n Sulfide (A4)		Loamy Gleye			F	Piedmont Floodplain Soils (F19)
_ Stratified	Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S	, ,			/ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar		7)	(	Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre		540) <b>(1.55.1</b> 1		
	lucky Mineral (S1) (L	RR N,			F12) <b>(LRR N,</b>		
	147, 148) leyed Matrix (S4)		MLRA 13	•	RA 136, 122)	3 <sub>ln</sub> c	dicators of hydrophytic vegetation ar
	edox (S5)				(F19) <b>(MLRA 1</b> -		etland hydrology must be present,
	Matrix (S6)				(MLRA 127, 14		nless disturbed or problematic.
	ayer (if observed):		Red r drene n	natorial (1 2 1)	(MERCA 127, 14		ness distarbed of problematic.
Type:	,						
	ches):					Hydric Soi	I Present? Yes <u>✓</u> No
			<del></del>			Tiyunc 301	Triesent: res NO
emarks:							

Wetland ID W-63 Cowardin Code PEM Date 08/29/19



Photograph Number 309
Photograph Direction South

Comments:



Photograph Number 310
Photograph Direction North

Comments:



Photograph Number 311
Photograph Direction NW

Comments:



Photograph Number 312
Photograph Direction NE



Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-63 UPL
Investigator(s): SAZ, KP, JL	Section, Township, Range: S	23 T14N R4W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	ne): Linear Slope (%): 3-5
Subregion (LRR or MLRA): LRRN		0.894155 Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to 3		NWI classification: N/A
Are climatic / hydrologic conditions on the site typic		
	-	
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
	No V Is the Sampled Area	Yes No
Wetland Hydrology Present? Yes	No within a Wetland?	res No
Remarks: Cowardin Code: UPLAND		
Cowardin Gode. OF LAND	riow. water type.	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; c	neck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
		Hydrology Present? Yes No✓
(includes capillary fringe)	ag well posicional photos provious increations) if average	silabla
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if ava	allable:
Remarks:		

### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-63 UPL

Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1,	-			That Are OBL, FACW, or FAC:0 (A)
2	-			Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5		-		Percent of Dominant Species That Are OBL FACW or FAC:  (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6	-		· ——	Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
500/ // /		= Total Cov		OBL species x 1 =
50% of total cover: 0 Sapling/Shrub Stratum (Plot size: 15'	20% of	total cover	:0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 )				
1	-			FAC species x 3 =
2				FACU species x 4 =
3	-			UPL species x 5 =
4				Column Totals: (A) (B)
5				Providence Index - B/A
6				Prevalence Index = B/A =
7		-		Hydrophytic Vegetation Indicators:
			· ——	1 - Rapid Test for Hydrophytic Vegetation
8	-			2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Telb Stratum (Flot Size)	00		EA 01.1	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Trifolium repens	30		FACU	1 Toblematio Trydrophytio Vegetation (Explain)
2. Plantago lanceolata	30		FACU	The disease of the disease is an about the edition to the control of the disease is a second
3. Phleum pratense	30		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Vernonia gigantea	10		FAC	Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		-		more in diameter at breast height (DBH), regardless of
7			· ——	height.
8	-			Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10	-			m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:50	20% of	total cover	<u>: 20 </u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				
5.	-		<del></del>	Hydrophytic Vegetation
o	0	Total Car		Present? Yes No
50% of total cover: 0		= Total Cover	_	
		total cover		
Remarks: (Include photo numbers here or on a separate si	neet.)			

Depth	Matrix	o the depth	needed to document the indicato Redox Features	. or committee	bacille of mulcat	U13.j	
(inches)	Color (moist)	%	Color (moist) % Type	Loc <sup>2</sup> Te	xture	Remarks	
0-12	10YR 4/4	100		;	SIL		
					<del></del>		
	-						
<sup>1</sup> Type: C=Co	ncentration D=Den	etion RM-R	educed Matrix, MS=Masked Sand (	Grains <sup>2</sup> Loc	ation: PL=Pore Lin	ing M-Matrix	
Hydric Soil		Cuon, ravi–ra	cacca matrix, mo-masked carra c	Jianis. Loci	Indicators for P		Iric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			A10) <b>(MLRA 14</b>	
	oipedon (A2)		Polyvalue Below Surface (S8)	(MI DA 147 149)		e Redox (A16)	′)
Black Hi			Thin Dark Surface (S9) (MLRA	•	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	1 147, 140)		oodplain Soils (F	=10)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 1		13)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			v Dark Surface (	TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			ain in Remarks)	
	ark Surface (A12)	. ( )	Redox Depressions (F8)			,	
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12	(LRR N.			
	147, 148)	<b>-</b> ,	MLRA 136)	(,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA	136, 122)	<sup>3</sup> Indicators of h	ydrophytic vege	tation and
	edox (S5)		Piedmont Floodplain Soils (F1			ology must be pr	
-	Matrix (S6)		Red Parent Material (F21) (ML			ed or problemat	
	ayer (if observed):			· ,			
Type:	,						
	ches):		_	Llyra	Iric Soil Present?	Yes	No 🗸
			_	пус	inc 30ii Fresent:	162	NO
Remarks:							

Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-64
	Section, Township, Range:	523 T14N R4W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, n	one): Concave Slope (%): 5-7
Subregion (LRR or MLRA): LRRN	Lat: 40.684487 Long: -8	0.896308 Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to 3		
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norm	al Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _		
SUMMARY OF FINDINGS – Attach site	e map showing sampling point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	Is the Sampled Area	
Wetland Hydrology Present? Yes	— within a wetiand?	Yes No
Devente	HGM: Depressional Water Type	- DDMMAD
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if av	vailable:
Remarks:		

### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

2. Polygonum sagittatum

3. Verbena hastata

Woody Vine <u>Stratum</u> (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_\_\_

4. Juncus effusus

1. Leersia oryzoides

\_\_\_)

50% of total cover: \_\_\_0

5. Scirpus atrovirens 10

% Cover Species? Status

= Total Cover

0 \_ = Total Cover

5

10

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

20% of total cover:\_ 0

100 = Total Cover

0 = Total Cover

OBL

OBL

**FACW** 

**FACW** 

OBL

50% of total cover: 0 20% of total cover: 0

	Sampling Poi	nt: <u>W-64</u>	
	Dominance Test worksheet:		
_	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
-	Total Number of Dominant Species Across All Strata:	2	(B)
-	Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)
-	Prevalence Index worksheet:		
-	Total % Cover of:	Multiply by:	
	OBL species x		
-	FACW species x :		
		3 =	
-		3 = 4 =	
-	•		
-	· —		_
-	Column Totals: (A)		_ (B)
-	Prevalence Index = B/A =		_
-	Hydrophytic Vegetation Indicate	ors:	
-	1 - Rapid Test for Hydrophyt	ic Vegetation	
-	✓ 2 - Dominance Test is >50%		
-	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	4 - Morphological Adaptation	s <sup>1</sup> (Provide sup	porting
-	data in Remarks or on a s		
	Problematic Hydrophytic Veg		n)
-			
-	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrology n roblematic.	nust
-	Definitions of Four Vegetation	Strata:	
	<b>Tree</b> – Woody plants, excluding wore in diameter at breast height height.		
	<b>Sapling/Shrub</b> – Woody plants, than 3 in. DBH and greater than m) tall.		
-	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that		rdless
-	<b>Woody vine</b> – All woody vines gheight.	reater than 3.28	ft in
-			
-			
-			
_	Hydrophytic		
_	Vegetation		
	Present? Yes	No	
_			

Remarks: (Include photo numbers here or on a separate sheet.)

	Matrix Color (moist)	%	Color (moist)	x Features	Type <sup>1</sup> Loc <sup>2</sup>	_ Texture	Remarks
(inches) 0-14	10YR 4/1	75	7.5YR4/6		C M/PI		Remarks
0-14	1011( 4/1		7.3104/0		C IVI/FI	. <u>SIL</u>	
						<u> </u>	
						_	_
						_	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked S	and Grains.		PL=Pore Lining, M=Matrix.
	ndicators:						cators for Problematic Hydric Soils <sup>3</sup>
Histosol			Dark Surface		/=-> <i>/</i>		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		·		(S8) (MLRA 14		Coast Prairie Redox (A16)
Black His	stic (A3) n Sulfide (A4)		Inin Dark St		VILRA 147, 148		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		-)	_	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark				Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Da	, ,			Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre				
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masses	(F12) <b>(LRR N,</b>		
	147, 148)		MLRA 13	•			
	leyed Matrix (S4)				LRA 136, 122)		ndicators of hydrophytic vegetation and
-	edox (S5)				s (F19) <b>(MLRA</b>		vetland hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F21	) (MLRA 127,	<b>47)</b> u	inless disturbed or problematic.
	ayer (if observed):						
	, ( 000).						
Туре:							
Type:			<u> </u>			Hydric Sc	oil Present? Yes <u>/</u> No
Type:						Hydric So	il Present? Yes <u> </u>
Type: Depth (inc			<u> </u>			Hydric Sc	il Present? Yes <u> </u>
Type: Depth (inc			<u> </u>			Hydric Sc	oil Present? Yes 🔽 No
Type: Depth (inc						Hydric Sc	oil Present? Yes 🔽 No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes <u>V</u> No
Type: Depth (inc						Hydric Sc	il Present? Yes V No
Type:						Hydric Sc	il Present? Yes V No
Туре:						Hydric Sc	il Present? Yes V No
Type:						Hydric Sc	il Present? Yes V No
Type:						Hydric So	il Present? Yes V No
Type: Depth (inc						Hydric Sc	il Present? Yes V No
Type:						Hydric Sc	il Present? Yes V No
Type:						Hydric Sc	il Present? Yes V No

Wetland ID W-64 Cowardin Code PEM Date 08/29/19



Photograph Number 313
Photograph Direction South

Comments:



Photograph Number 314

Photograph Direction West

Comments:



Photograph Number 315

Photograph Direction East

Comments:



Photograph Number 316

Photograph Direction West



Project/Site: Kensington	City/C	ounty: Columbiana		Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC	,	,		Sampling Point: W-64-UPL
	Section	on, Township, Range: S2	23 T14N R4W	<u> </u>
Landform (hillslope, terrace, etc.): Depression	n Local reli	ef (concave, convex, nor	ne): Concave	Slope (%): 5-7
Subregion (LRR or MLRA): LRRN	Lat. 40.684371			Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to				
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolo	gy significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hydrolo				
SUMMARY OF FINDINGS – Attach				
Hydrophytia Vagatatian Branant?	No. 🗸			
	No V	Is the Sampled Area		🗸
	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:				tors (minimum of two required)
Primary Indicators (minimum of one is required			Surface Soil	
Surface Water (A1)	True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	Oxidized Rhizosphere		Moss Trim Li	
Water Marks (B1) Sediment Deposits (B2)	<ul><li>Presence of Reduced</li><li>Recent Iron Reduction</li></ul>	` '	Crayfish Buri	Water Table (C2)
Orift Deposits (B3)	Thin Muck Surface (C		· ·	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer			tressed Plants (D1)
Iron Deposits (B5)			Geomorphic	
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:				
	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:				
Tromaine.				

Tree Stratum (Plot size:)				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3				
i				Total Number of Dominant Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Ale OBE, I AOW, OIT AO. (AB
				Prevalence Index worksheet:
		= Total Cov	_	
50% of total cover: 0	20% of	total cover	0	OBL species x 1 =
japing/Snub Stratum (Flot Size)				FACW species x 2 =
				FACULARIZATION X 3 =
)				FACU species x 4 =
3				UPL species x 5 =
l				Column Totals: (A) (B)
5				Prevalence Index = B/A =
S				Hydrophytic Vegetation Indicators:
,				1 - Rapid Test for Hydrophytic Vegetation
3				2 - Dominance Test is >50%
)				3 - Prevalence Index is ≤3.0¹
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50% of total cover: 0	20% of	total cover	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )			E4011	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Phleum pratense	80		FACU	1 Toblematic Hydrophytic Vegetation (Explain)
Solanum carolinense	20		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
l				Definitions of Four Vegetation Strata:
5				
S				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
<b>.</b>				height.
3				Continue/Charaba Manda allegate avaluation visual land
)				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0				m) tall.
1				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50 <u>Voody Vine Stratum</u> (Plot size: 15' )	20% of	total cover	20	Woody vine – All woody vines greater than 3.28 ft in
				height.
2				
3		-		
l				Hydrophytic
j	0			Vegetation Present? Yes No _ ✓
500/ -(/-)-		= Total Cov	_	resent: resNo
50% of total cover: 0		total cover		
Remarks: (Include photo numbers here or on a separate si				

Depth	Matrix	%	Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>		<b>D</b>	el co
inches)	Color (moist)		Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>		Remai	KS
0-12	10YR 4/4	100		SIL		
		·				
				_		
		·				
_				_		
				_	_	
		etion, RM=I	Reduced Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Ma	
dric Soil I	ndicators:			Inc	licators for Problemation	Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLR	A 147)
	ipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14		Coast Prairie Redox (A	16)
Black Hi			Thin Dark Surface (S9) (MLRA 147, 148		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain S	oils (F19)
_	Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)	(TE40)
	ck (A10) <b>(LRR N)</b> I Below Dark Surface	· (A11)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>		Very Shallow Dark Surf Other (Explain in Rema	
	rk Surface (A12)	; (A11)	Redox Depressions (F8)		Other (Explain in Kema	iiks)
	ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LRR N,			
-	. 147, 148)	,	MLRA 136)			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	3	Indicators of hydrophytic	vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA		wetland hydrology must	-
	Matrix (S6)		Red Parent Material (F21) (MLRA 127, 1		unless disturbed or prob	
estrictive L	.ayer (if observed):					
Type:			<u></u>			
Depth (inc	ches):			Hydric S	oil Present? Yes	No 🗸
marks:						<u> </u>

Project/Site: Kensington		City/C	ounty: Columbiana		Sampling Date: 08/29/19	
Applicant/Owner: Kensington PV I, LLC	;	State: OH Sampling Point: W-65				
Investigator(s): SAZ, KP, JL		Section	on, Township, Range: S2	23 T14N R4W		
Landform (hillslope, terrace, etc.): Floodpl	ain	Local reli	ef (concave, convex, no	<sub>ne):</sub> Concave	Slope (%): 1-3	
Subregion (LRR or MLRA): LRRN	Lat	40.684043	Long: <u>-</u> 80	.898253	Datum: NAD 83	
Soil Map Unit Name: Orrville silt loam, C		ercent slopes, occa	asionally flooded	NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the sit	e typical f	or this time of year? Y	es No	(If no, explain in R	Remarks.)	
Are Vegetation, Soil, or Hydro	ology	significantly distur	bed? Are "Normal	l Circumstances" p	present? Yes No	
Are Vegetation, Soil, or Hydro	ology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attac	h site n	nap showing sam	pling point location	ons, transects	s, important features, etc.	
Hydrophytia Vogotation Proceed?	es 🗸	No				
	es 🔽		Is the Sampled Area			
	es 🔽	No	within a Wetland?	Yes	No	
Pemarks:			Water Type:	DDWWD		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is requ	ired; chec	k all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (	True Aquatic Plants (B14)		getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa		
Saturation (A3)	~		es on Living Roots (C3)			
Water Marks (B1)		Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)				✓ Geomorphic	Position (D2)	
Inundation Visible on Aerial Imagery (B	7)			Shallow Aqu	itard (D3)	
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present? Yes	No 🖊	Depth (inches):				
		_ Depth (inches):				
Saturation Present? Yes		_ Depth (inches):		Hydrology Preser	nt? Yes 🗸 No	
(includes capillary fringe)  Describe Recorded Data (stream gauge, m	onitoring	well, aerial photos, pre	vious inspections), if ava	ailable:		
Remarks:						

### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling	Point: W-65

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tice offatarii (Flot Size)		Species?		Number of Dominant Species	0	
1. Salix nigra	35		OBL	That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4						. (-)
				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC:	10070	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
,,	35	= Total Cov	/er _			
50% of total cover:17.	5 20% of	total cover	:7	OBL species x 1		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1				FAC species x 3	3 =	_
2				FACU species x 4	1 =	
				UPL species x 5		
3				Column Totals: (A)		
4				Column Totals(A)		(b)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicat		
7						
8				1 - Rapid Test for Hydrophyti	-	
				✓ 2 - Dominance Test is >50%		
9	^			3 - Prevalence Index is ≤3.0 <sup>1</sup>		
		= Total Cov		4 - Morphological Adaptation	s <sup>1</sup> (Provide su	oporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a s		
Terb Stratum (Flot Size)				Problematic Hydrophytic Veg	•	
1. Phalaris arundinacea	80		FACW	Problematic Hydrophytic veg	jetation (Expla	airi <i>)</i>
2. Sagittaria latifolia	10		OBL			
3. Polygonum sagittatum	10		OBL	<sup>1</sup> Indicators of hydric soil and wetla		must
4 Impatiens capensis	5		FACW	be present, unless disturbed or present		
" <u> </u>				Definitions of Four Vegetation	Strata:	
5			<del></del>	Tree – Woody plants, excluding v	ines. 3 in. (7.6	cm) or
6		·	<del></del>	more in diameter at breast height		
7				height.		
8				Sanling/Shrub Wandy plants	avaludia a via a	
9				Sapling/Shrub – Woody plants, of than 3 in. DBH and greater than of	excluding vines	s, iess R ft (1
10				m) tall.	21 Oqual to 0.21	3 ( .
	-			,		
11	105			Herb – All herbaceous (non-wood		ardless
500/ () <b>50</b> /		= Total Cov		of size, and woody plants less that	an 3.28 it tail.	
50% of total cover: <u>52.</u>	20% of	total cover	:	Woody vine – All woody vines gr	eater than 3.2	8 ft in
Woody Vine Stratum (Plot size: 15')				height.		
1						
2						
3						
4						
				Hydrophytic		
5	^			Vegetation Present? Yes ✓	No	
		= Total Cov	_	riesent: res	140	
50% of total cover: 0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	sheet.)					

	Matrix	0/		x Features	ype <sup>1</sup> Loc <sup>2</sup>	Touturo	Б	مسمعاده	
inches) 0-16	Color (moist) 10YR 4/2	<u>%</u> 85	Color (moist) 7.5YR 4/6			Texture SIL		emarks	
0-16	1011 4/2	85	7.51K 4/0	15C	WI/PL	SIL			
			·						
pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sa	nd Grains.		.=Pore Lining, M		
dric Soil Ir	ndicators:					Indica	tors for Proble	matic Hydric	Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface				cm Muck (A10)	(MLRA 147)	
	ipedon (A2)				S8) <b>(MLRA 147</b> ,	<b>148)</b> Co	oast Prairie Red		
Black His				, , ,	LRA 147, 148)		(MLRA 147, 14		
	n Sulfide (A4)		Loamy Gleye			Pi	edmont Floodpla	, ,	
	Layers (A5)		Depleted Ma			\	(MLRA 136, 14		۵۱
	ck (A10) <b>(LRR N)</b> Below Dark Surface	(Δ11)	Redox Dark	ъипасе (F6) k Surface (F7	1		ery Shallow Dark her (Explain in F		2)
	rk Surface (A12)	(7(1)	Redox Depre		,		inci (Explain in i	(Ciliaiks)	
	ucky Mineral (S1) <b>(L</b>	RR N.		ese Masses (l	F12) <b>(LRR N.</b>				
-	147, 148)	,	MLRA 13		, (,				
	leyed Matrix (S4)		Umbric Surfa	•	RA 136, 122)	<sup>3</sup> Indi	cators of hydrop	hytic vegetation	n and
_ Sandy Re					(F19) <b>(MLRA 14</b>		land hydrology i		
Stripped	Matrix (S6)		Red Parent N	Material (F21)	(MLRA 127, 147	') unle	ess disturbed or	problematic.	
strictive L	ayer (if observed):								
Туре:									
Depth (incl	hes):					Hydric Soil	Present? Yes	s_ <u> </u>	·
()						L			
emarks:									

Wetland ID W-65 Cowardin Code PFO Date 08/29/19



Photograph Number 317
Photograph Direction West

Comments:



Photograph Number 318
Photograph Direction West

Comments:



Photograph Number 319

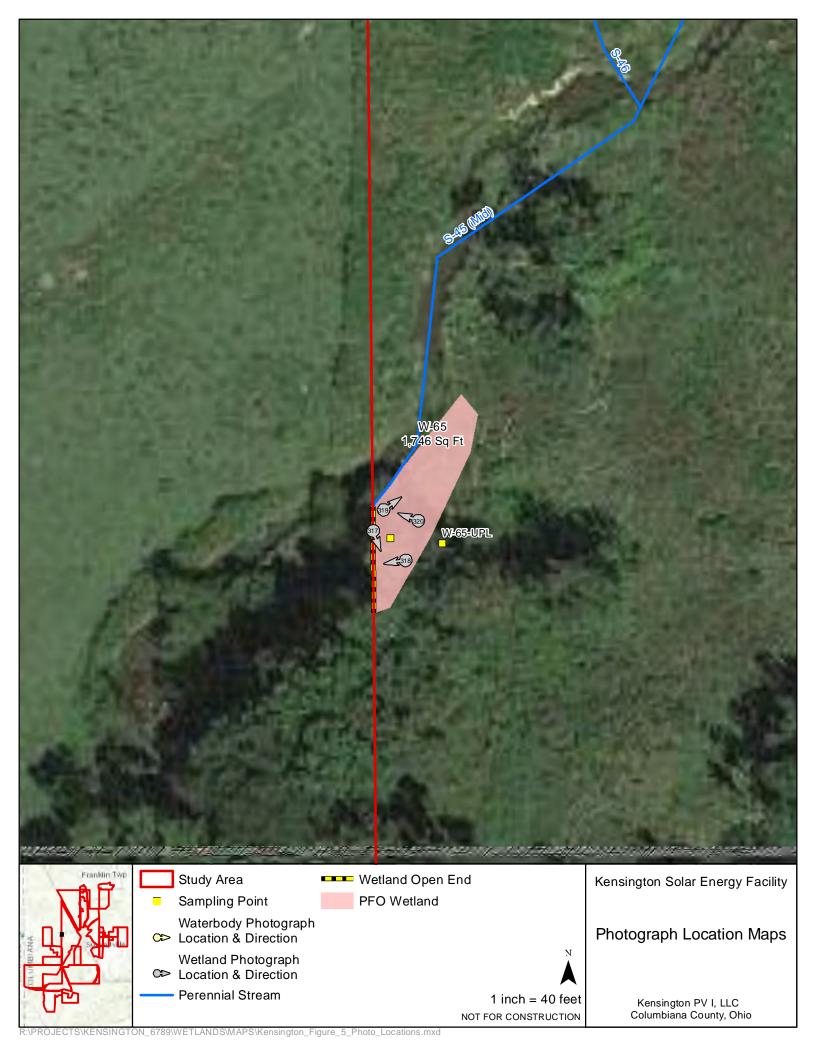
Photograph Direction NE

Comments:



Photograph Number 320

Photograph Direction West



Project/Site: Kensington	City/Cour	<sub>nty:</sub> Columbiana	Sampling Date: 08/28/19
Applicant/Owner: Kensington PV I, LLC	, ,	State: C	OH Sampling Point: W-65-UPL
Investigator(s): SAZ, KP, JL	Section.	Township, Range: S23 T14N	R4W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (	concave, convex, none): Con	vex Slope (%): 1-3
Subregion (LRR or MLRA): LRRN	Lat: 40.684036		Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to	3 percent slopes, occasion	onally flooded NWI	classification: N/A
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes	No (If no, expl	ain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed	? Are "Normal Circumsta	ances" present? Yes No
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Yes _	No. V		
	No 🗸	the Sampled Area	s No
	No V	thin a Wetland? Yes	S NO
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:	
HYDROLOGY		_	
Wetland Hydrology Indicators:		Secondar	y Indicators (minimum of two required)
Primary Indicators (minimum of one is required:	check all that apply)		ace Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14		sely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (		nage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres of	n Living Roots (C3) Moss	Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iro	n (C4) Dry-S	Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in	Tilled Soils (C6) Crayf	fish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark		ted or Stressed Plants (D1)
Iron Deposits (B5)			morphic Position (D2)
Inundation Visible on Aerial Imagery (B7)			ow Aquitard (D3)
Water-Stained Leaves (B9)		· · · · · · · · · · · · · · · · · · ·	otopographic Relief (D4)
Aquatic Fauna (B13)		FAC-	Neutral Test (D5)
Field Observations:	Depth (inches):		
	Depth (inches):		
			5 10 V V V
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology	Present? Yes No
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previou	us inspections), if available:	
Remarks:			

### **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-65-UPL

Trop Stratum (Blot size: 30'	Absolute		Indicator	Dominance Test worksheet:		
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	0	
1. Quercus alba	40		FACU	That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	4	(B)
4.				op a second seco		(-/
				Percent of Dominant Species	0	
5				That Are OBL, FACW, or FAC:		(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total Co		<del></del>	Multiply by:	
50% of total cover: 20	20% of	total cover	r: <u> </u>	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x :		
1				FAC species x :	3 =	_
2				FACU species x	4 =	
				UPL species x :		
3				Column Totals: (A)		
4				Column Totals (A)	,	_ (b)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicat		_
7						
8				1 - Rapid Test for Hydrophyt	_	
				2 - Dominance Test is >50%	j	
9	_			3 - Prevalence Index is ≤3.0	ı	
		= Total Co		4 - Morphological Adaptation	ns¹ (Provide sur	porting
50% of total cover: 0	20% of	total covei	r: <u> </u>	data in Remarks or on a s	separate sheet)	
TIEID Stratum (Flot Size.			E4 011	Problematic Hydrophytic Veg	•	
1. Solidago canadensis	60		FACU	Floblematic Hydrophytic veg	Jetation (Expla	111)
2. Phleum pratense	20	<b>✓</b>	FACU			
3. Phytolocca americana	20		FACU	<sup>1</sup> Indicators of hydric soil and wetl		must
				be present, unless disturbed or p		
4				Definitions of Four Vegetation	Strata:	
5				Tree – Woody plants, excluding v	vines. 3 in. (7.6	cm) or
6		· -		more in diameter at breast height		
7				height.		
8				Conline/Chrush Mandy plants	avaludina vinas	looo
9				<b>Sapling/Shrub</b> – Woody plants, than 3 in. DBH and greater than		
10				m) tall.	51 0quai to 0.20	, ( .
				,		
11	100			Herb – All herbaceous (non-wood		ırdless
500 () 50		= Total Co	ver	of size, and woody plants less that	an 3.28 ft tail.	
50% of total cover: <u>50</u>	20% of	total cover	r: <u>20</u>	Woody vine – All woody vines g	reater than 3.28	3 ft in
Woody Vine Stratum (Plot size: 15')				height.		
1,						
2						
3						
4.						
		-		Hydrophytic		
5	^			Vegetation Present? Yes	No 🗸	
		= Total Co	_	riesent: ies	NO <u> </u>	
50% of total cover: 0	20% of	total cover	r: 0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Depth	Matrix	%	Redox Features	pe <sup>1</sup> Loc <sup>2</sup>	Taretree		Domeste	
inches)	Color (moist)		Color (moist) % Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100			SIL			
					-	-		
						-		
						-		
					-	-		
/pe: C=Cc	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS=Masked San	d Grains.	<sup>2</sup> Location: P	L=Pore Lining,	, M=Matrix.	
	ndicators:	·				ators for Prob		ric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S7)		2	cm Muck (A10	O) <b>(MLRA 14</b> 7	7)
_ Histic Ep	ipedon (A2)		Polyvalue Below Surface (S	8) <b>(MLRA 147</b> ,	. <b>148)</b> C	Coast Prairie Re	edox (A16)	
Black His	stic (A3)		Thin Dark Surface (S9) (ML	RA 147, 148)		(MLRA 147,	148)	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		P	iedmont Flood		19)
_	Layers (A5)		Depleted Matrix (F3)			(MLRA 136,		
	ck (A10) (LRR N)	(* ( *)	Redox Dark Surface (F6)			ery Shallow D		TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			Other (Explain i	n Remarks)	
	rk Surface (A12) ucky Mineral (S1) <b>(L</b>	DD N	<ul><li>Redox Depressions (F8)</li><li>Iron-Manganese Masses (F</li></ul>	12) <b>(I DD N</b>				
	. 147, 148)	.NN N,	MLRA 136)	12) (LKK N,				
	leyed Matrix (S4)		Umbric Surface (F13) (MLR	A 136, 122)	<sup>3</sup> Ind	licators of hydr	ophytic veget	tation and
-	edox (S5)		Piedmont Floodplain Soils (			etland hydrolog		
-	Matrix (S6)		Red Parent Material (F21) (			less disturbed		
	.ayer (if observed):			·	1		<u> </u>	
Type:								
Depth (inc	ches):				Hydric Soil	Present?	/es	No 🗸
emarks:								

Project/Site: Kensington	City/County: Columbi	ana	Sampling Date: 08/29/19	
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-6		
Investigator(s): SAZ, KP, JL	Section, Township, Ran	ge: S23 T14N R4W		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, conve	ex, none): Concave	Slope (%): <u>3-5</u>	
Subregion (LRR or MLRA): LRRN	Lat: 40.685658 Long	<sub>3:</sub> <u>-80.897949</u>	Datum: NAD 83	
Soil Map Unit Name: Orrville silt loam, 0 to				
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "N	Normal Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology	naturally problematic? (If nee	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach si	te map showing sampling point lo	cations, transects	, important features, etc.	
Hydrophytic Vegetation Present? Yes	V No Is the Sampled			
	No.			
Wetland Hydrology Present? Yes _	within a wetian	d? Yes <u>▼</u>	No	
Remarks: Cowardin Code: PEM		VDO: DDW/MD		
Soils continued:	HGM: Riverine Water T	ype: RPWWD		
Westmoreland-Coshocton silt loams, 8	to 15 percent slopes			
, ,	as to person suspen			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil (	Cracks (B6)	
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pat		
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots</li> </ul>			
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C			
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ressed Plants (D1)	
Iron Deposits (B5)		Geomorphic I		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	` '	
Water-Stained Leaves (B9)			phic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutral		
Field Observations:				
	Depth (inches):			
	Depth (inches):			
		land Hydrology Presen	t? Yes ✔ No	
(includes capillary fringe)	· · · · ·			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections)	, if available:		
Remarks:				
remarks.				

### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15' )

2. Phalaris arundinacea

3. Polygonum sagittatum

Woody Vine Stratum (Plot size: \_\_\_\_15' \_\_\_\_)

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_\_\_

1. Leersia oryzoides

4. Impatiens capensis

\_\_\_)

50% of total cover: \_\_\_0

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

50% of total cover: \_\_\_0 \_\_ 20% of total cover:\_\_0

nes of p	lants.		Sampling F	Point	: <u>W-66</u>	
		Indicator	Dominance Test worksheet:			
6 Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC		2	_ (A)
·			Total Number of Dominant Species Across All Strata:		2	(B)
·			Percent of Dominant Species That Are OBL, FACW, or FAC	):	100%	(A/B
		<u> </u>	Prevalence Index worksheet	t:		
0 -	Total Cov		Total % Cover of:	N	/lultiply by:	
	tal cover	_	OBL species	x 1 =	·	_
2070 01 10	, iai 00101		FACW species	x 2 =	:	_
			FAC species			
			FACU species	x 4 =	:	
<del></del> -						
		· ——	Column Totals:			
<del></del> -			Column Totals.	(~)		(D)
<del></del> -			Prevalence Index = B/A	=		_
			Hydrophytic Vegetation Indi	cator	s:	
			1 - Rapid Test for Hydrop			
			2 - Dominance Test is >50	-	Ü	
			3 - Prevalence Index is ≤3			
=	Total Cov	er _	4 - Morphological Adaptat		(Provide su	nnortin
20% of to	tal cover	: 0	data in Remarks or on			
			Problematic Hydrophytic			•
30	<i>'</i>	OBL	Problematic Hydrophytic	vegei	ation (Expid	ali i <i>)</i>
40 20	<i>'</i>	FACW OBL	<sup>1</sup> Indicators of hydric soil and w be present, unless disturbed o			must
10		FACW	Definitions of Four Vegetation			
·		·	Tree – Woody plants, excludir more in diameter at breast hei height.	ng vin	es, 3 in. (7.6	
·			Sapling/Shrub – Woody plan than 3 in. DBH and greater tha m) tall.			
	Total Cov		Herb – All herbaceous (non-w of size, and woody plants less			ardless
2070 01 10	nai oovoi		Woody vine – All woody vines height.	s grea	ater than 3.2	8 ft in
	Total Cov	^	Hydrophytic Vegetation Present? Yes		No	
∠∪% of to	tal cover					

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	ription: (Describe t Matrix	uopu		x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/2	90	7.5YR 4/6	10	С	M/PL	SIL	
			_					
								-
			_					
						· ——		
								-
Tunoi C Ci	naantration D Donl	otion DM F	Dadwaad Matrix MG	Mookod	Cond Cr		<sup>2</sup> l continue D	L Doro Lining M Motrix
Type: C=Co	oncentration, D=Depl	etion, Rivi=F	Reduced Matrix, MS	s=IVIasked	Sand Gr	ains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			Dorle Curfoso	(07)				
Histosol	oipedon (A2)		Dark Surface Polyvalue Be	. ,	o (S8) <b>(I</b>	/II DΛ 1/17		cm Muck (A10) <b>(MLRA 147)</b> coast Prairie Redox (A16)
Histic Ep			Thin Dark Su				0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			141, 140)	Р	riedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		_,		·	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S	, ,	6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	•	,			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	)			
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	s (F12) (	LRR N,		
	\ 147, 148)		MLRA 13	•				
	Sleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	1) <b>(ML</b> R	A 127, 147	un un	less disturbed or problematic.
	_ayer (if observed):							
Type:			<del>_</del>					,
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:							•	

Wetland ID W-66 Cowardin Code PEM Date 08/29/19



Photograph Number 321
Photograph Direction South

Comments:



Photograph Number 322
Photograph Direction NE

Comments:



Photograph Number 323

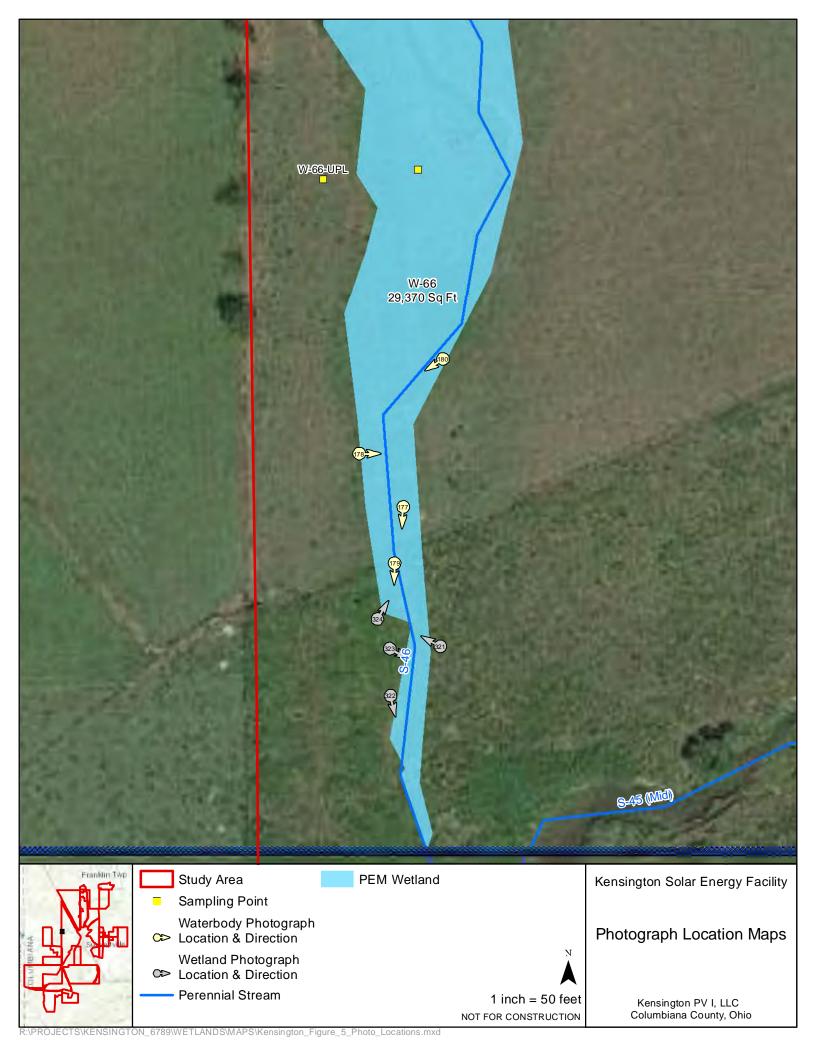
Photograph Direction SE

Comments:



Photograph Number 324

Photograph Direction NW



Project/Site: Kensington	City/C	ounty: Columbiana		Sampling Date: 08/29/19		
Applicant/Owner: Kensington PV I, LLC	•	•		Sampling Point: W-66-UPL		
Investigator(s): SAZ, KP, JL	Section Section	on. Township, Range: S2	23 T14N R4W	<u> </u>		
Landform (hillslope, terrace, etc.): Floodplair	Local reli	ef (concave, convex, nor	ne): Concave	Slope (%): 3-5		
Subregion (LRR or MLRA): LRRN	Lat: 40.685646			Datum: NAD 83		
Soil Map Unit Name: Orrville silt loam, 0 to						
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Ye	es <u> </u>	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrolog	gy significantly disturb	ped? Are "Normal	Circumstances" p	oresent? Yes No		
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach						
Hydrophytic Vegetation Present?	No_ 🗸			<del>-</del>		
	No	Is the Sampled Area	.,	🗸		
	No	within a Wetland?	Yes	No		
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required	l; check all that apply)		Surface Soil			
Surface Water (A1)	True Aquatic Plants (I		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odd		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced	Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rem	narks)		tressed Plants (D1)		
Iron Deposits (B5)			Geomorphic	` '		
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Water-Stained Leaves (B9) Aquatic Fauna (B13)			Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:			TAO Neutrai	1031 (03)		
	Depth (inches):					
	Depth (inches):					
	Depth (inches):		Wetland Hydrology Present? Yes No_			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, moni	oring well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:						
Remarks.						

### **VEGETATION (Four Strata)**

			Indicator	Dominance Test works	heet:		
ee Stratum (Plot size: 30' )		Species?		Number of Dominant Sports That Are OBL, FACW, or		0	_ (A)
				Total Number of Domina Species Across All Strata		2	(B)
				·			_ (5)
				Percent of Dominant Spe That Are OBL, FACW, or		0	_ (A/B
				Prevalence Index work	sheet:		
	0	= Total Cov		Total % Cover of:	N	lultiply by:	
50% of total cover: 0			•	OBL species	x 1 =	-	
ppling/Shrub Stratum (Plot size: 15' )		1010.		FACW species	x 2 =	-	
, (i ot o.zo.				FAC species	x 3 =		
				FACU species	x 4 =		
				UPL species			
				Column Totals:			
				Prevalence Index	、 /		、
				Hydrophytic Vegetation			
				1 - Rapid Test for Hy		regetation	
				2 - Dominance Test			
	_	= Total Cov	er	3 - Prevalence Index 4 - Morphological Ad			
50% of total cover: 0 <u>orb Stratum</u> (Plot size: 5'  Solidago canadensis	20% or 45	total cover:	FACU	data in Remarks Problematic Hydropi			,
Phleum pratense	20		FACU			بيم ما مسام با ما	
				I limite at any of laviable and it		i nvaroloav	
•	15		FACU_	<sup>1</sup> Indicators of hydric soil be present, unless distur	bed or prob	lematic.	y must
•	-				bed or prob	lematic.	y must
				be present, unless distur	bed or prob etation Str	lematic.	
				Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea	bed or probetation Str	es, 3 in. (7.	.6 cm) o
				be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex	bed or probetation Str	es, 3 in. (7.	.6 cm) o
				Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody	etation Str cluding vine st height (D	ata: es, 3 in. (7. BH), regar	.6 cm) of rdless of es, less
				Definitions of Four Veg Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and great	etation Str cluding vine st height (D	ata: es, 3 in. (7. BH), regar	.6 cm) or rdless of es, less
)				Definitions of Four Veg Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and great m) tall.	bed or probetation Structure cluding vine st height (Drug plants, except than or except that or	ata: es, 3 in. (7. BH), regar	.6 cm) or rdless of es, less 28 ft (1
				Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and great m) tall.  Herb – All herbaceous (r	etation Str cluding vine st height (D plants, exc er than or e	ata: es, 3 in. (7. BH), regared luding vine equal to 3.2	6 cm) or rdless of es, less 28 ft (1
)	80	= Total Cov	er	Definitions of Four Veg Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and great m) tall.	etation Str cluding vine st height (D plants, exc er than or e	ata: es, 3 in. (7. BH), regared luding vine equal to 3.2	6 cm) o rdless of es, less 28 ft (1
)	80		er	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) or rdless of es, less 28 ft (1 gardless
50% of total cover: 40	80 20% of	= Total Cov	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) or rdless of es, less 28 ft (1 gardless
50% of total cover: 40 000dy Vine Stratum (Plot size: 15'	80 20% of	= Total Cov total cover:	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) ordless of es, less 28 ft (1
50% of total cover: 40 oody Vine Stratum (Plot size: 15'	80 20% of	= Total Cov total cover:	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) ordless of es, less 28 ft (1
50% of total cover: 40 oody Vine Stratum (Plot size: 15'	80 20% of	= Total Covers	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) ordless of es, less 28 ft (1
50% of total cover: 40 oody Vine Stratum (Plot size: 15' )	80 20% of	= Total Covers	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody height.  Hydrophytic	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded.	6 cm) ordless of es, less 28 ft (1
50% of total cover: 40 oody Vine Stratum (Plot size: 15' )	80 20% of	= Total Cov total cover:	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody height.  Hydrophytic Vegetation	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded to 3.2 ft tall.	6 cm) o rdless of es, less 28 ft (1 gardless
50% of total cover: 40 loody Vine Stratum (Plot size: 15'	80 20% of	= Total Cover:	er 16	be present, unless distur  Definitions of Four Veg  Tree – Woody plants, ex more in diameter at brea height.  Sapling/Shrub – Woody than 3 in. DBH and greatm) tall.  Herb – All herbaceous (rof size, and woody plants)  Woody vine – All woody height.  Hydrophytic Vegetation	etation Str cluding vine st height (D r plants, exc er than or e	es, 3 in. (7. BH), regarded to 3.2 plants, regarded to 3.2 ft tall.	6 cm) or rdless of es, less 28 ft (1 gardless

Depth Desc	Matrix	o allo depuii	needed to document the indica Redox Features	or oominin the	asserios of maisat	J. J. J.
(inches)	Color (moist)	%		pe <sup>1</sup> Loc <sup>2</sup> T	exture	Remarks
0-16	10YR 4/4	100			SIL	
				<del></del>	<del></del>	
				<del></del>	<del></del>	
				<del></del>		
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion RM=Re	educed Matrix, MS=Masked Sand	d Grains. <sup>2</sup> Loo	cation: PL=Pore Lin	ing M=Matrix
Hydric Soil I		0.0011, 1.001—1.00	sacoa manx, mo-mackoa bank	Z OTATIO.		Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			(A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Below Surface (St	R) (MI R A 147 148)		e Redox (A16)
Black His			Thin Dark Surface (S9) (MLI		(MLRA 1	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	(147, 140)		loodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 1	
	ck (A10) (LRR N)		Redox Dark Surface (F6)			w Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			ain in Remarks)
	rk Surface (A12)	,	Redox Depressions (F8)		_ ` '	,
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F1	2) (LRR N,		
	147, 148)		MLRA 136)	, ,		
	leyed Matrix (S4)		Umbric Surface (F13) (MLR	A 136, 122)	<sup>3</sup> Indicators of h	nydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F			ology must be present,
Stripped	Matrix (S6)		Red Parent Material (F21) (N		unless disturb	ped or problematic.
Restrictive L	ayer (if observed):					
Type:						
	ches):			Hv	dric Soil Present?	Yes No
Remarks:			_	,		
Nemains.						

Project/Site: Kensington	City/County: Columbiana Sampling Date: 08/2		
Applicant/Owner: Kensington PV I, LLC	State: OH Sampling Point: W-6		
Investigator(s): KMP, SAZ, JL	Section, Township, Range	ge: S14 T14N R4W	<u></u>
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, conve	ex, none): Concave	Slope (%): 3-5
Subregion (LRR or MLRA): LRRN			Datum: NAD 83
Soil Map Unit Name: Westmoreland-Coshoct			
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "N	lormal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology _			
SUMMARY OF FINDINGS – Attach site			
Hydrophytic Vegetation Present? Yes	No Is the Sampled		
	Is the Sampled /		
Wetland Hydrology Present?	No within a Wetland	1? Yes <u>▼</u>	No
Remarks: Cowardin Code: PEM	HGM: Slope Water T	ype: NRPWW	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soil	
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pat	
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots</li> </ul>	(C3) Moss Trim Li	nes (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (Co	6) Crayfish Buri	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)		Geomorphic	, ,
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)			phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wet	land Hydrology Presen	t? Yes V No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections),	if available:	
Remarks:			

ames of plants.	Sampling Poi	nt: W-67				
anies of plants.	Sampling Fount.					
Absolute Dominant Indicator	Dominance Test worksheet:					
% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	_ (A)			
	Total Number of Dominant Species Across All Strata:	1	_ (B)			
	Percent of Dominant Species	100%				

30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:30') 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Deminant		
3				Total Number of Dominant Species Across All Strata:	1	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6						
7				Prevalence Index worksheet:		
	0	= Total Cov	er	Total % Cover of:		
50% of total cover:0	20% of	total cover:	. 0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15'				FACW species x	. 2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	_
3				UPL species x	5 =	_
4				Column Totals: (A	۸)	(B)
5				Prevalence Index = B/A =	:	_
6				Hydrophytic Vegetation Indica		
7		-	· <del></del>	1 - Rapid Test for Hydrophy		
8				2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0		
		= Total Cov		4 - Morphological Adaptatio		onortino
50% of total cover:0	20% of	total cover:	. 0	data in Remarks or on a		-
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic Ve		
1. Glyceria striata	55		OBL	Problematic Hydrophytic ve	getation (Expla	ali i <i>)</i>
2. Pilea pumila	15		FACW	11 attack and a Character and an allow	da a dibirahada ar	
3. Scutellaria lateriflora	5		FACW_	<sup>1</sup> Indicators of hydric soil and we be present, unless disturbed or		must
4. Impatiens capensis	15		FACW	Definitions of Four Vegetation	·	
5. Leersia virginica	10		OBL	Definitions of Four Vegetation	i Strata.	
6. Onoclea sensibilis	5		FACW	Tree – Woody plants, excluding more in diameter at breast heigh		
7				height.	it (DBH), regard	11622 01
8						
9				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than		
10				m) tall.	- 01 0qual to 0.2t	J 11 ( 1
11.		-		Harle All back as a second construction	- 4 2 -1 - 4	11
• • •	105	= Total Cov	or .	Herb – All herbaceous (non-wood of size, and woody plants less the	ody) piants, rega han 3.28 ft tall.	ardiess
50% of total cover: <u>52.</u>	5 20% of	total cover:	21			
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines of height.	greater than 3.28	8 ft in
1.				neight.		
0		-				
3						
4				Hydrophytic		
5	0			Vegetation Present? Yes	No	
F00/ -44-4-1 0		= Total Cov	_	163		
50% of total cover:0		total cover:				
Remarks: (Include photo numbers here or on a separate s	sneet.)					

Depth (inches)	Matrix Color (moist)	%	Redo: Color (moist)	x Features	Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-16	10YR 4/1	80	7.5YR 4/6		C M/PL	SIL		Remarks	
			7.511( 4/0	10 (					
+16	10YR 4/2	100				SIL			
							-		
							-		
						-			
	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sa	and Grains.	<sup>2</sup> Location: P			
dric Soil Ir								oblematic Hy	
_ Histosol (			Dark Surface		/ <del></del>		•	10) <b>(MLRA 1</b>	47)
	ipedon (A2)				(S8) (MLRA 147	,148) C		Redox (A16)	
_ Black His					ILRA 147, 148)	Б	(MLRA 14)		(E40)
	n Sulfide (A4) Layers (A5)		Loamy Gleye  Depleted Mat		1	^_	(MLRA 13	odplain Soils (	(F19)
	ck (A10) <b>(LRR N)</b>		Redox Dark S			V		Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dar		7)			n in Remarks)	
	rk Surface (A12)	` ,	Redox Depre		•		` .	,	
_ Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	(F12) <b>(LRR N,</b>				
	147, 148)		MLRA 13	•					
	eyed Matrix (S4)				.RA 136, 122)			drophytic veg	
_ Sandy Re					s (F19) <b>(MLRA 1</b> 4		-	ogy must be p	
	Matrix (S6)		Red Parent N	faterial (F21)	(MLRA 127, 14	<b>7)</b> un	less disturbe	ed or problema	atic.
estrictive L	ayer (if observed):								
Туре:									No
	hes):					Hydric Soil	Present?	Yes	No
Type:	hes):		<u></u>			Hydric Soil	Present?	Yes	NO
Type:	hes):		<u> </u>			Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes <u>V</u>	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type: Depth (inc	hes):					Hydric Soil	Present?	Yes	NO
Type: Depth (inc	hes):					Hydric Soil	Present?	Yes	NO
Type: Depth (inc	hes):					Hydric Soil	Present?	Yes	NO
Type: Depth (inc	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Туре:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO
Type:	hes):					Hydric Soil	Present?	Yes	NO

# **Wetland Photograph Page**

Wetland ID W-67 Cowardin Code PEM Date 08/29/19



Photograph Number 325
Photograph Direction East

Comments:



Photograph Number 326

Photograph Direction NE

Comments:



Photograph Number 327
Photograph Direction South

Comments:



Photograph Number 328

Photograph Direction NW

Comments:



Project/Site: Kensington	City/County:	Columbiana	_ Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC		State: OH	Sampling Point: W-67-UPL
Investigator(s): SAZ, KP, JL	Section, Tow	vnship, Range: S14 T14N R4W	<u> </u>
Landform (hillslope, terrace, etc.): Floodplain	Local relief (con	cave, convex, none): Concave	Slope (%): 3-5
Subregion (LRR or MLRA): LRRN	Lat. 40.690472	Long: -80.895678	
Soil Map Unit Name: Westmoreland-Cosho			
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrolog			
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach s			•
	No. la the	, , ,	
	No V	Sampled Area	
	No within	n a Wetland? Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:	
Cowardin Code: UPLAND	HGM:	vvater Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required	check all that apply)	Surface So	·
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on L		
Water Marks (B1)	Presence of Reduced Iron (0		n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Till		
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)			c Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	, ,
Water-Stained Leaves (B9)			raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	
Field Observations:			,
	<b>✓</b> Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Prese	ent? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous in	nspections), if available:	
Remarks:			

Tree Stratum (Plot size: \_

Sapling/Shrub Stratum (Plot size: 15'

Herb Stratum (Plot size: \_\_\_

1. Pilea pumila

3. Aster pilosos

1. Acer rubrum

\_\_\_)

50% of total cover: \_\_\_0

50% of total cover: <u>35</u> 20% of total cover: <u>14</u>

50% of total cover: 0 20% of total cover:

50% of total cover: 20 20% of total cover: 8

nes of	plants.		Sampling Po	int: <u>W-67-UP</u>	_
bsolute			Dominance Test worksheet:		
<u>% Cover</u>	Species? ✓	Status FAC	Number of Dominant Species	4	
40		1 40	That Are OBL, FACW, or FAC:		(A)
	-		Total Number of Dominant	4	
			Species Across All Strata:		(B)
	-		Percent of Dominant Species	100%	(A /D
			That Are OBL, FACW, or FAC:	10070	(A/B
			Prevalence Index worksheet:		
40	= Total Cov	er	Total % Cover of:	Multiply by:	
20% of	total cover	8	OBL species x	1 =	_
			FACW species x	2 =	_
			FAC species x	3 =	_
			FACU species x	4 =	_
			<u> </u>	5 =	_
	-		Column Totals: (A	A)	(B)
			Prevalence Index = B/A =		
	-		Hydrophytic Vegetation Indica	ntors:	_
			1 - Rapid Test for Hydrophy		
			✓ 2 - Dominance Test is >50%	ó	
	-		3 - Prevalence Index is ≤3.0	) <sup>1</sup>	
	= Total Cov	^	4 - Morphological Adaptation	ns¹ (Provide sup	portin
_ 20% Of	total cover:		data in Remarks or on a	separate sheet)	
20	~	FACW	Problematic Hydrophytic Ve	getation <sup>1</sup> (Expla	in)
20		OBL			
20	~	FAC	<sup>1</sup> Indicators of hydric soil and wet		must
10		FACU	be present, unless disturbed or p  Definitions of Four Vegetation		
			Definitions of Four Vegetation	Strata:	
			Tree – Woody plants, excluding		
			more in diameter at breast heigh height.	ii (DBH), Tegaru	iess o
				ovoludina vina	loop
			Sapling/Shrub – Woody plants, than 3 in. DBH and greater than		
			m) tall.	•	•
	-		Herb – All herbaceous (non-woo	ody) plants, rega	rdless
<u>70                                    </u>	= Total Cov		of size, and woody plants less th		
20% of	total cover:	14	Woody vine – All woody vines of	reater than 3.28	3 ft in
			height.		
	-				
			Hydrophytic		
0	Total Or		Vegetation Present? Yes	No	
	= Total Cov total cover:	er · 0			

Remarks: (Include photo numbers here or on a separate sheet.)

2. Leersia virginica

4. Phytolocca americana

Woody Vine Stratum (Plot size: \_\_\_\_15' \_\_\_\_)

Depth	Matrix	%	Redox Features	ype <sup>1</sup> Loc <sup>2</sup>	Taut		Demonst	
inches)	Color (moist)		Color (moist) % T	ype <sup>1</sup> Loc <sup>2</sup>	Texture	-	Remarks	
0-16	10YR 4/3	100			SIL			
					-			
					-			
						-		
pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS=Masked Sa	ind Grains.	<sup>2</sup> Location: P	L=Pore Linin	g, M=Matrix.	
	ndicators:		·					ydric Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface (S7)		2	cm Muck (A	10) <b>(MLRA</b> 1	147)
	ipedon (A2)		Polyvalue Below Surface (	S8) (MLRA 147,		oast Prairie		
Black His	stic (A3)		Thin Dark Surface (S9) (M	LRA 147, 148)		(MLRA 147	', 148)	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		P	iedmont Floo		(F19)
-	Layers (A5)		Depleted Matrix (F3)			(MLRA 136		
	ck (A10) (LRR N)	(* ( )	Redox Dark Surface (F6)	_,		ery Shallow		
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7	<b>(</b> )	C	ther (Explain	in Remarks	5)
	rk Surface (A12) ucky Mineral (S1) <b>(L</b>	DD N	Redox Depressions (F8)	E12\				
	147, 148)	.KK N,	Iron-Manganese Masses ( MLRA 136)	F12) (LRR N,				
	leyed Matrix (S4)		Umbric Surface (F13) (ML	RA 136 122)	<sup>3</sup> Ind	icators of hy	drophytic ve	netation and
_ Sandy Re			Piedmont Floodplain Soils			tland hydrol		-
-	Matrix (S6)		Red Parent Material (F21)			less disturbe		
				,	Ì		<u> </u>	
strictive L	ayer (if observed):							
	ayer (if observed):							
Туре:			_		Hydric Soil	Present?	Yes	No 🗸
Type: Depth (incl					Hydric Soil	Present?	Yes	No 🗸
Type: Depth (incl					Hydric Soil	Present?	Yes	No <u>/</u>
Type: Depth (incl					Hydric Soil	Present?	Yes	_ No <u> </u>
Type: Depth (incl					Hydric Soil	Present?	Yes	No <u>*</u>
Type: Depth (incl					Hydric Soil	Present?	Yes	_ No <u> </u>
Type: Depth (incl					Hydric Soil	Present?	Yes	_ No <u> </u>
Type: Depth (incl					Hydric Soil	Present?	Yes	_ No <u>✓</u>
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	_ No <u> </u>
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Туре:					Hydric Soil	Present?	Yes	_ No <u>~</u>
Type: Depth (incl					Hydric Soil	Present?	Yes	No <u>v</u>
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V
Type: Depth (incl					Hydric Soil	Present?	Yes	No V

Project/Site: Kensington	City/Count	City/County: Columbiana Sa		
Applicant/Owner: Kensington PV I, LLC	State: OH Sampling Point: W-6			
		Section, Township, Range: S14 T14N R4W		
Landform (hillslope, terrace, etc.): Depression	Local relief (c	Local relief (concave, convex, none): Concave Slope		
Subregion (LRR or MLRA): LRRN	Lat: 40.687563	Long: -80.893107		
Soil Map Unit Name: Coshocton silt loam, 2	to 6 percent slopes	NWI classi	fication:	
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes _	No (If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed?	? Are "Normal Circumstances"	present? Yes V No	
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach sit				
Lludrophytic Vegetation Present?	V No ls.t		<u> </u>	
	✓ No.	the Sampled Area		
Wetland Hydrology Present? Yes	No wit	thin a Wetland? Yes	No	
B .	HGM: Slope	Water Type: RPWWN		
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)	
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface So	oil Cracks (B6)	
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odor (C		Patterns (B10)	
Saturation (A3)	Oxidized Rhizospheres or		Lines (B16)	
Water Marks (B1)	Presence of Reduced Iron		n Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in		urrows (C8)	
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Remarks	· —	Stressed Plants (D1)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)			ic Position (D2)	
Water-Stained Leaves (B9)		Shallow Aq	graphic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutr		
Field Observations:			ar 100t (20)	
	✓ Depth (inches):			
	Depth (inches):			
	Depth (inches):		ent? Yes 🗸 No	
(includes capillary fringe)			165 <u></u> 110 <u></u>	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:		
Remarks:				
ixemarks.				

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Scirpus atrovirens

Woody Vine <u>Stratum</u> (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: 1. Juncus effusus

4. Phalaris arundinacea

2. Poa trivialis

\_\_\_\_)

50% of total cover: \_\_\_0

100 = Total Cover

0 = Total Cover

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

50% of total cover: 0 20% of total cover: 0

ames of	plants.		Sampling Point: <u>W</u>	V-68	
Absolute			Dominance Test worksheet:		
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
			Total Number of Dominant Species Across All Strata:	3	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:1	100%	(A/B)
			Prevalence Index worksheet:		
0	= Total Cov	or	Total % Cover of: Mul	Itiply by:	
	total cover:	^	OBL species x 1 =		_
_			FACW species x 2 =		_
			FAC species x 3 =		_
			FACU species x 4 =		_
_			UPL species x 5 =		_
			Column Totals: (A)		_ (B)
			Prevalence Index = B/A =		_
			Hydrophytic Vegetation Indicators:		
	-		1 - Rapid Test for Hydrophytic Ve	getation	
	-		✓ 2 - Dominance Test is >50%		
0	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	total cover:	_	4 - Morphological Adaptations <sup>1</sup> (P	rovide sup	porting
2070 01	total covor.	·	data in Remarks or on a separa	ate sheet)	
30	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation	on¹ (Explai	n)
40	~	FACW			
10		OBL	<sup>1</sup> Indicators of hydric soil and wetland he present, unless disturbed or problem		nust
20	~	FACW	Definitions of Four Vegetation Strate		
			Tree – Woody plants, excluding vines, more in diameter at breast height (DBI height.		
			Sapling/Shrub - Woody plants, exclu-	idina vines	less

than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes V No \_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)

inches)	Matrix Color (moist)	%	Color (moist)	x Features %	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/2	85	7.5YR 4/6	15		M/PL	SIL	Nemarks
0-10	1011( 3/2		7.511( 4/0		<u>C</u>	IVI/I L	- JIL	· -
								· -
	-							
	-							
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
dric Soil	Indicators:						Indic	cators for Problematic Hydric Soils <sup>3</sup>
_ Histosol	(A1)		Dark Surface	e (S7)			:	2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
_ Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		<del>-</del> 2)		!	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		0)		,	(MLRA 136, 147)
_	ick (A10) <b>(LRR N)</b> d Below Dark Surface	ο (Λ11)	Redox Dark : Depleted Dark :					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	; (A11)	Redox Depre					Other (Explain in Kemarks)
	fucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		,o (i .z) <b>(</b>			
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
-	Matrix (S6)		Red Parent N					nless disturbed or problematic.
estrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric So	il Present? Yes 🗸 No
emarks:								

# **Wetland Photograph Page**

Wetland ID W-68 Cowardin Code PEM Date 08/29/19



Photograph Number 329 Photograph Direction NW

Comments:



Photograph Number 330 Photograph Direction SE

Comments:



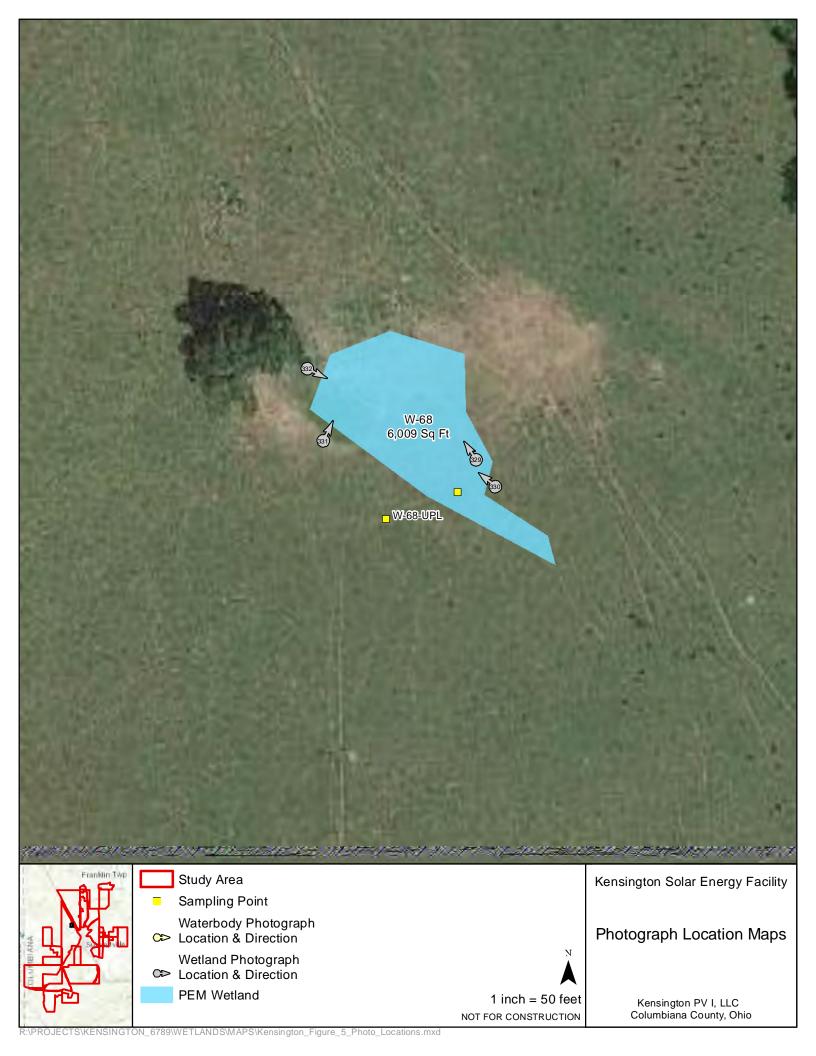
Photograph Number 331 Photograph Direction NE

Comments:



Photograph Number 332 Photograph Direction NW

Comments:



Project/Site: Kensington	City/Cou	<sub>nty:</sub> Columbiana	Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC		State: OH	
Investigator(s): SAZ, KP, JL	Section.	Township, Range: S14 T14N R4	W
Landform (hillslope, terrace, etc.): Depressio	n Local relief (	(concave, convex, none): Concave	e Slope (%): 3-5
Subregion (LRR or MLRA): LRRN	Lat: 40.687526	Long: -80.893242	
Soil Map Unit Name: Coshocton silt lo	am, 2 to 6 percent s	lopes NWI class	
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes		
Are Vegetation, Soil, or Hydrolog	y significantly disturbed	d? Are "Normal Circumstance	s" present? Yes V No
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Yes	No_ V		1
	No 🗸	the Sampled Area	🗸
	No w	ithin a Wetland? Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:	
HYDROLOGY			
Wetland Hydrology Indicators:			licators (minimum of two required)
Primary Indicators (minimum of one is required			oil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14		Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (	_	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres		n Lines (B16)
Water Marks (B1)	Presence of Reduced Iro	• •	on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in		Burrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4)	<ul><li>Thin Muck Surface (C7)</li><li>Other (Explain in Remar</li></ul>		n Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Algal Mat of Crust (B4) Iron Deposits (B5)	Other (Explain in Kemai		hic Position (D2)
Inundation Visible on Aerial Imagery (B7)		· · · · · · · · · · · · · · · · · · ·	quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neut	
Field Observations:		<del></del>	
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches):		sent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	. , , ,		
Describe Recorded Data (Stream gauge, month	oning well, aenai photos, previo	us irispections), ii available.	
Remarks:			
İ			

Sampling Point: W-68-UPL	
st worksheet:	

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				That Aid OBE, I AOW, OI I AO.
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Species Across Air Strata.
5		-		Percent of Dominant Species That Are OBL FACW or FAC: 0 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
··-	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0			_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )		1010.		FACW species x 2 =
1				FAC species x 3 =
2		-		FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4		-		
		-		Prevalence Index = B/A =
6		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0		= Total Cov total cover:	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
E!	20% 01	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 )  1. Phleum pratense	40	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Triolium repens	40		FACU	
3. Vernonia gigantea	10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Solanum carolinense	10	-	FACU	be present, unless disturbed or problematic.
··· <u>·</u>		-	I-ACO	Definitions of Four Vegetation Strata:
5		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7		•		height.
8		•		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		-		m) tall.
11	100	-		Herb – All herbaceous (non-woody) plants, regardless
T00/ () F0	100	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50</u>	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1				
2		-		
3		-		
4				Hydrophytic
5		-		Vegetation
		= Total Cov	_	Present? Yes No
50% of total cover:0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix	o me uepm	needed to document the indica Redox Features	tor or committee	absence of illuical	
(inches)	Color (moist)	%		e <sup>1</sup> Loc <sup>2</sup> To	exture	Remarks
0-16	10YR 4/4	100			SIL	
				<del></del>	<del></del>	
				<del></del>	<del></del>	
	-					
Type: C=Co	ncentration D=Den	etion RM-Re	educed Matrix, MS=Masked Sand	I Grains <sup>2</sup> I or	cation: PL=Pore Lir	ning M-Matrix
Hydric Soil I		ction, rawi–ra	caacca matrix, mo-masked carre	TOTAITIS. LOC		Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			(A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Below Surface (St	2) (MI DA 147 148)		e Redox (A16)
Black His			Thin Dark Surface (S9) (MLF		(MLRA 1	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	(A 147, 140)		loodplain Soils (F19)
	I Layers (A5)		Depleted Matrix (F3)		(MLRA 1	
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			w Dark Surface (TF12)
	Below Dark Surface	- (Δ11)	Depleted Dark Surface (F7)			ain in Remarks)
	ark Surface (A12)	<i>(</i> A11)	Redox Depressions (F8)		Other (Expire	aiii iii Nomarkoj
	lucky Mineral (S1) <b>(L</b>	RR N	Iron-Manganese Masses (F1	2) (I RR N		
	147, 148)	ixix i <b>v</b> ,	MLRA 136)	2) (LIXIX IV,		
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA	\ 136 122\	<sup>3</sup> Indicators of I	nydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F			ology must be present,
	Matrix (S6)		Red Parent Material (F21) (N			bed or problematic.
	_ayer (if observed):		Red Farent Waterial (F21) (II		unicos distan	bed of problematic.
	ayer (ii observed).					
Type:	. `		<del>_</del>			
	ches):		<u> </u>	Ну	dric Soil Present?	Yes No
Remarks:						

Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC	,			Sampling Point: W-69
Investigator(s): SAZ, KP, JL	Section	on, Township, Range: S2	23 T14N R4W	
Landform (hillslope, terrace, etc.): Floodplai	n Local reli	ef (concave, convex, non	ne): Concave	Slope (%): 1-2
Subregion (LRR or MLRA): LRRN	Lat: 40.686081	Long: -80.		Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 t	o 3 percent slopes, occa			
Are climatic / hydrologic conditions on the site				<u>-                                    </u>
Are Vegetation, Soil, or Hydrok				
Are Vegetation, Soil, or Hydrold SUMMARY OF FINDINGS – Attach			xplain any answer	
			<u> </u>	,
Hydrophytic Vegetation Present? Yes		Is the Sampled Area	•	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	<del></del>	within a Wetland?	Yes	No
Demantica				
Cowardin Code: PEM	HGM: Riverine	Water Type: I	RPVVVD	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil (	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (			etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)		es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	Presence of Reduced		-	Vater Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burr	
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)		ressed Plants (D1)
Iron Deposits (B5)			Geomorphic I	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	
Water-Stained Leaves (B9) Aquatic Fauna (B13)			FAC-Neutral	phic Relief (D4)
Field Observations:			1 AC-Neuliai	1631 (D3)
	o Depth (inches):			
	o Depth (inches):			
	Depth (inches):	_	ydrology Presen	t? Yes ✔ No
(includes capillary fringe)				100 <u></u>
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, pre	vious inspections), if avai	ilable:	
Remarks:				

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size:

2. Sagittaria latifolia

3. Leersia oryzoides

1. Phalaris arundinacea

4. Schoenoplectus tabernaemontani

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

\_\_\_)

50% of total cover: 0 = 10tal cover 0

50% of total cover: 0 = 20% of total cover: 0 = 20%

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover: 0

ames of plants.	Sampling Point: W-69
Absolute Dominant Indicat	
% Cover Species? Statu	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
	Total Number of Dominant Species Across All Strata: 2 (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
	Prevalence Index worksheet:
0 = Total Cover	Total % Cover of: Multiply by:
= Total Cover 20% of total cover: 0	OBL species x 1 =
20 % of total cover	FACW species x 2 =
	FAC species x 3 =
	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (B)
	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	—
O Total Cavar	3 - Prevalence Index is ≤3.0 <sup>1</sup>
= Total Cover 20% of total cover: 0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	data in Remarks or on a separate sheet)
55 ✔ FACV	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
30  ✓ OBL 10  OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>OBL</u>	— Definitions of Four Vegetation Strata:
	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
= Total Cover 20% of total cover: 20	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
20% of total cover:20	Woody vine – All woody vines greater than 3.28 ft in height.
0 = Total Cover	Hydrophytic  Vegetation Present?  Yes ✓ No

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	ription: (Describe t		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/2	85	7.5YR 4/6	15	<u>C</u>	<u>M</u>	SCL			
					<del></del> -					
					<del></del> -					
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked S	and Grai	ns. <sup>2</sup>			ng, M=Matrix.	
Hydric Soil I	ndicators:						Indica	itors for P	roblematic Hy	dric Soils³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	A10) <b>(MLRA 1</b>	47)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surface	(S8) (ML	RA 147, 1	<b>48)</b> C	oast Prairie	Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (N	VILRA 14	7, 148)		(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleye		()		Pi		oodplain Soils	(F19)
	l Layers (A5)		Depleted Ma					(MLRA 13		
	ick (A10) (LRR N)		Redox Dark	, ,					Dark Surface	
	d Below Dark Surface	(A11)	Depleted Dar		7)		0	ther (Expla	in in Remarks)	)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		(F12) <b>(L</b> l	RR N,				
	147, 148)		MLRA 13	•			3			
	ileyed Matrix (S4)		Umbric Surfa						ydrophytic veg	
	edox (S5)		Piedmont Flo						logy must be p	
	Matrix (S6)		Red Parent N	/laterial (F21	) (MLRA	127, 147)	uni	ess disturb	ed or problem	atic.
	_ayer (if observed):									
Type:									,	
Depth (inc	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

# **Wetland Photograph Page**

Wetland ID W-69 Cowardin Code PEM Date 08/29/19



Photograph Number 333
Photograph Direction South

Comments:



Photograph Number 334

Photograph Direction West

Comments:



Photograph Number 335

Photograph Direction SE

Comments:



Photograph Number 336

Photograph Direction South

Comments:



Project/Site: Kensington	City/C	ounty: Columbiana		Sampling Date: 08/29/19
Applicant/Owner: Kensington PV I, LLC	,			Sampling Point: W-69-UPL
Investigator(s): SAZ, KP, JL	Section Section	on, Township, Range: S2	23 T14N R4W	<u> </u>
Landform (hillslope, terrace, etc.): Floodplain	n Local reli	ef (concave, convex, nor	ne): Convex	Slope (%): 1-2
Subregion (LRR or MLRA): LRRN	Lat: 40.686148	•		Datum: NAD 83
Soil Map Unit Name: Orrville silt loam, 0 to	o 3 percent slopes, occa	asionally flooded	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site t	ypical for this time of year? Y	es No (	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrold	gy significantly distur	bed? Are "Normal	Circumstances" p	present? Yes V No
Are Vegetation, Soil, or Hydrolo				
SUMMARY OF FINDINGS – Attach				
Lindrophytic Vegetation Present?	No. V			
	No	Is the Sampled Area		
	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (	B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odd		Drainage Pa	tterns (B10)
Saturation (A3)	Oxidized Rhizosphere	= : :	Moss Trim Li	nes (B16)
Water Marks (B1)	Presence of Reduced	` '		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)			Geomorphic	, ,
<ul><li>Inundation Visible on Aerial Imagery (B7)</li><li>Water-Stained Leaves (B9)</li></ul>			Shallow Aqui	uphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	* * *
Field Observations:			17.0 1404141	1001 (20)
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		lydrology Preser	ıt? Yes No ✔
(includes capillary fringe)		_		
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, pre	vious inspections), if ava	liable:	
Remarks:				

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Vernonia gigantea

Woody Vine Stratum (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_\_\_

4. Solanum carolinense

1. Phleum pratense2. Triolium repens

\_\_\_)

50% of total cover: \_\_\_0

% Cover Species? Status

= Total Cover

0\_\_\_ = Total Cover

30

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover: 0

20% of total cover: 0

15 FACU

100 = Total Cover

0 = Total Cover

**FACU** 

**FACU** 

FAC

50% of total cover: 0 20% of total cover: 0

	ng Poin	nt: W-69-UPL	_
Dominance Test worksh	eet:		
Number of Dominant Spec That Are OBL, FACW, or	cies FAC: _	1	(A)
Total Number of Dominan Species Across All Strata:		2	(B)
Percent of Dominant Spec That Are OBL, FACW, or		50%	(A/B)
Prevalence Index works	heet:		
Total % Cover of:		Multiply by:	
		=	
FACW species			
FAC species		=	
FACU species		=	
		=	
Column Totals:	(A)		(B)
Prevalence Index =	B/A =		
Hydrophytic Vegetation	Indicato	ors:	
1 - Rapid Test for Hyd			
2 - Dominance Test is		vegetation	
3 - Prevalence Index			
		1.00	
4 - Morphological Ada			
data in Remarks o			
Problematic Hydrophy	ytic Vege	etation' (Expla	ain)
<sup>1</sup> Indicators of hydric soil a be present, unless disturb	nd wetla ed or pro	nd hydrology oblematic.	must
Definitions of Four Vege	tation S	trata:	
<b>Tree</b> – Woody plants, exc more in diameter at breas height.	luding vi t height (	nes, 3 in. (7.6 (DBH), regard	cm) or dless of
Sapling/Shrub – Woody pthan 3 in. DBH and greatem) tall.			
<b>Herb</b> – All herbaceous (no of size, and woody plants			ardless
Woody vine – All woody v	vines gre	eater than 3.2	8 ft in
height.			

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	o the depth	needed to document the indicate Redox Features	ator or committee	absence of male	atol 3. <i>j</i>	
(inches)	Color (moist)	%		pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR 4/4	100			SIL		
				<del></del>			
				<del></del>			
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS=Masked San	d Grains. <sup>2</sup> I	ocation: PL=Pore L	ining, M=Matrix	
Hydric Soil I		ouon, ruvi–ru	Sadoca Matrix, MO-Macrea Carr	d Ordino.		Problematic Hyd	ric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			(A10) <b>(MLRA 14</b>	
	oipedon (A2)		Polyvalue Below Surface (S	8) (MI RA 147 148		rie Redox (A16)	''
Black His			Thin Dark Surface (S9) (ML	, .		147, 148)	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	KA 141, 14 <b>0</b> )		Floodplain Soils (F	<del>-</del> 19)
	Layers (A5)		Depleted Matrix (F3)			136, 147)	.0)
	ck (A10) (LRR N)		Redox Dark Surface (F6)			ow Dark Surface (	TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			plain in Remarks)	,
	rk Surface (A12)	,	Redox Depressions (F8)		` '	,	
	lucky Mineral (S1) (L	RR N,	Iron-Manganese Masses (F	12) <b>(LRR N</b> ,			
	147, 148)		MLRA 136)				
	leyed Matrix (S4)		Umbric Surface (F13) (MLR	A 136, 122)	<sup>3</sup> Indicators of	hydrophytic vege	tation and
	edox (S5)		Piedmont Floodplain Soils (			Irology must be pr	
Stripped	Matrix (S6)		Red Parent Material (F21) (		unless distu	irbed or problemat	tic.
Restrictive L	ayer (if observed):						
Type:							
• • • • • • • • • • • • • • • • • • • •	ches):		_	F	lydric Soil Present	? Yes	No 🗸
Remarks:			<del>_</del> ,	-	.,		
Remarks.							

Project/Site: Kensington	City/C	City/County: Columbiana Sampling Date: 08/			
Applicant/Owner: Kensington PV I, LLC		,		_ Sampling Point: W-70	
Investigator(s): SAZ, KP, JL Section, Township, Range: S23 T14N R4W					
Landform (hillslope, terrace, etc.): Hillslope	Slope (%): 3-5				
Subregion (LRR or MLRA): LRRN	<sub>Lat:</sub> 40.684137	Long:80.5	891525	NAD 83	
Soil Map Unit Name: Berks channery silt	loam, 25 to 35 percent s	slopes	NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site	typical for this time of year? Y	res No (I	If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrole	ogy significantly distur	bed? Are "Normal	Circumstances" pi	resent? Yes No	
Are Vegetation, Soil, or Hydrole	ogy naturally problema	atic? (If needed, ex	xplain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing san	npling point location	ns, transects,	important features, etc.	
Hydrophytic Vegetation Present? Yes	s No				
, , , ,	No	Is the Sampled Area	/		
	No	within a Wetland?	Yes	No	
Remarks: Cowardin Code: PEM		Water Type: F	RPWWN		
Impacted by cattle grazing					
HYDROLOGY					
Wetland Hydrology Indicators:		•		ors (minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil 0		
Surface Water (A1)	True Aquatic Plants (		Sparsely Veg	etated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patt		
Saturation (A3)	Oxidized Rhizospher		Moss Trim Lir		
Water Marks (B1)	Presence of Reduced	` '		Vater Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction				
Drift Deposits (B3)	Thin Muck Surface (0			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)		ressed Plants (D1)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7			Geomorphic F Shallow Aquit		
Water-Stained Leaves (B9)				phic Relief (D4)	
Aquatic Fauna (B13)		,	FAC-Neutral		
Field Observations:				1001 (20)	
	o Depth (inches):				
	o Depth (inches):				
	o Depth (inches):		ydrology Present	t? Yes ✔ No	
(includes capillary fringe)				100	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	evious inspections), if avail	iadie:		
Remarks:					
İ					

Sampling Point: W-70

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	•	
1				That Are OBL, FACW, or FAC:	3	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	3	(B)
4				oposios / isroos / iii otrata.		(5)
				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC:	10070	(A/B)
6				Prevalence Index worksheet:		
7		-		Total % Cover of:	Multiply by	
		= Total Cov	er	<del></del>		
50% of total cover:0	20% of	total cover:	. 0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x	2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	_
				UPL species x		
3				Column Totals: (A		
4				Column Totals (A	, <u> </u>	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		
7				1 - Rapid Test for Hydrophyt		
8				2 - Dominance Test is >50%	-	
9						
	_	= Total Cov	or .	3 - Prevalence Index is ≤3.0		
50% of total cover:0				4 - Morphological Adaptation	ıs¹ (Provide sup	porting
	2070 01	total cover		data in Remarks or on a s	separate sheet)	
Herb Stratum (Plot size: 5 ) 1. Juncus effusus	10		FACW	Problematic Hydrophytic Veg	getation <sup>1</sup> (Expla	in)
	40		FACW			
2. Poa trivialis				<sup>1</sup> Indicators of hydric soil and wetl	and hydrology r	nust
3. Scirpus atrovirens	20		OBL	be present, unless disturbed or p		
4. Caex vulpinoidea	30		OBL	Definitions of Four Vegetation		
5						
6				Tree – Woody plants, excluding		
7				more in diameter at breast height height.	t (DBH), regardi	ess or
8			· ——	noight.		
				Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-woo	dy) plants, rega	rdless
		= Total Cov		of size, and woody plants less the	an 3.28 ft tall.	
50% of total cover:50	20% of	total cover:	20	Woody vine – All woody vines g	reater than 3 25	ft in
Woody Vine Stratum (Plot size:15')				height.	reater than 5.20	11 111
1						
2						
3						
4				Hydrophytic		
5	^			Vegetation Present? Yes	No	
500, (, , )		= Total Cov	_	Tresent.		
50% of total cover:0_		total cover:				
Remarks: (Include photo numbers here or on a separate si	heet.)					

Depth	ription: (Describe t		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-12	10YR 4/2	85	7.5YR 4/6	15	С	M/PL	SIL			
Type: C=Co	oncentration, D=Depl	etion RM=F	Reduced Matrix MS	S=Masked S	Sand Gr	ains	<sup>2</sup> Location: F	PI =Pore I in	ing, M=Matrix.	
ydric Soil I		<u> </u>	toddood WidthX, Wie	J-Maskea C	Jana Or	uirio.			roblematic Hy	
_ Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	ipedon (A2)		Polyvalue Be	, ,	e (S8) (N	/ILRA 147.			e Redox (A16)	
Black Hi			Thin Dark Su					(MLRA 14		
	n Sulfide (A4)		Loamy Gleye			. ,	F	•	oodplain Soils	(F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	36, 147)	
	ck (A10) (LRR N)		Redox Dark	, ,					v Dark Surface	
	Below Dark Surface	(A11)	Depleted Dar				_ (	Other (Expla	in in Remarks	)
	rk Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) <b>(</b>	LRR N,				
	147, 148)		MLRA 13	•	U D A 40	)C 400\	31	J:		
	leyed Matrix (S4) edox (S5)		Umbric Surfa Piedmont Flo						ydrophytic veg ology must be p	
	Matrix (S6)		Red Parent N						ed or problem	
	ayer (if observed):		Ned raientii	naterial (i Z	i) (IVILIN	A 121, 141	) ui	iiess distuit	ed of problem	allo.
Type:	ayer (ii observeu).									
	phool:		<del></del>				Hydric Soi	l Bracant?	Yes_	No
	ches):						nyuric 30i	i Fresent?	162	
temarks:										

# **Wetland Photograph Page**

Wetland ID W-70 Cowardin Code PEM Date 08/29/19



Photograph Number <u>337</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>338</u>
Photograph Direction NW

Comments:



Photograph Number 339
Photograph Direction North

Comments:



Photograph Number 340
Photograph Direction NW

Comments:



Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/29/19		
Applicant/Owner: Kensington PV I, LLC		State: OH Sampling Point: W-70-U				
Investigator(s): SAZ, KP, JL	Section Section	on, Township, Range: S2	3 T14N R4W	<u></u>		
Landform (hillslope, terrace, etc.): Hillslope	Local rel	ief (concave, convex, non	e): Concave	Slope (%): 3-5		
Subregion (LRR or MLRA): LRRN				Datum: NAD 83		
Soil Map Unit Name: Berks channery silt						
Are climatic / hydrologic conditions on the site	typical for this time of year? Y	res No (/	If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrole	ogy significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes V No		
Are Vegetation, Soil, or Hydrole			xplain any answe			
SUMMARY OF FINDINGS – Attach						
			<u> </u>			
	S No S No	Is the Sampled Area		.,		
	s No	within a Wetland?	Yes	No		
Remarks: Cowardin Code: UPLANI		Water Type:				
Cowardin Code: UPLANI	) HGWI:	vvater Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		;	Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (	B14)	Sparsely Veg	getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat			
Saturation (A3)	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Li	nes (B16)		
Water Marks (B1)	Presence of Reduced	d Iron (C4)	Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)	Thin Muck Surface (0	27)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)	Stunted or St	ressed Plants (D1)		
Iron Deposits (B5)			Geomorphic	Position (D2)		
Inundation Visible on Aerial Imagery (B7			Shallow Aqui	tard (D3)		
Water-Stained Leaves (B9)			Microtopogra	phic Relief (D4)		
Aquatic Fauna (B13)		,	FAC-Neutral	Test (D5)		
Field Observations:						
	o Depth (inches):					
Water Table Present? Yes N	o Depth (inches):					
	o Depth (inches):	Wetland H	ydrology Presen	t? Yes No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	l vious inspections), if avai	lable:			
Remarks:						

Sampling Point: W-70-UPL

	Absolute	Dominant		Dominance Test worksheet:	
TICC Stratum (1 lot 3/26.		Species?		Number of Dominant Species That Are OBL_FACW_or_FAC: 1	44.
1,				That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 3	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 33.33	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by	
		= Total Cov		OBL species x 1 =	
50% of total cover: 0	20% of	total cover	. 0	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15' )				FAC species x 3 =	
1					
2				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A)	(B)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	n
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
_		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide	supporting
50% of total cover: 0	20% of	total cover	. 0	data in Remarks or on a separate she	
Herb Stratum (Plot size: 5')			E4011	Problematic Hydrophytic Vegetation¹ (Ex	′
1. Phleum pratense	25		FACU	1 Toblematic Trydrophytic Vegetation (Ex	piairi)
2. Triolium repens	40		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrologic	av muet
3. Vernonia gigantea	30		FAC	be present, unless disturbed or problematic.	gy must
4. Solanum carolinense	5		<u>FACU</u>	Definitions of Four Vegetation Strata:	
5					\
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (more in diameter at breast height (DBH), regions.	
7				height.	2101000 01
8				Continue/Chauch Mondy plants avaluation vi	
9				Sapling/Shrub – Woody plants, excluding vi than 3 in. DBH and greater than or equal to 3	
10				m) tall.	,
11				Herb – All herbaceous (non-woody) plants, re	enardless
	100 .	= Total Cov	er	of size, and woody plants less than 3.28 ft tal	
50% of total cover: 50	20% of	total cover	20	Woody vine – All woody vines greater than 3	2.28 ft in
Woody Vine Stratum (Plot size:15')				height.	0.20 11 111
1				_	
2					
3					
4				Hydrophytic	
5				Vegetation	
	0 .	= Total Cov	er	Present? Yes No	_
50% of total cover: 0	20% of	total cover	0		
Remarks: (Include photo numbers here or on a separate sh	neet.)				

### Depth (inches):	Depth	Matrix	0/	Redox Features	Tune <sup>1</sup>	<del></del> .	Taxt		D '		
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  dric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Depleted Matrix (F2)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147)  MLRA 147, 148)  Sandy Gleyed Matrix (F3)  MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydrology must be present, unless disturbed or problematic.  Type:  Depth (inches):  Hydric Soil Present? Yes No✓	inches)			Color (moist) %	<u>rype</u> <u>Lo</u>	<u>c                                    </u>			Remark	(S	
Histosol (A1)	0-12	101K 4/4	100				SIL _				
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)			etion, RM=l	Reduced Matrix, MS=Masked S	and Grains.	<sup>2</sup> L					
Histic Epipedon (A2)	dric Soil I	ndicators:					Indicate	ors for Pr	oblematic	Hydric So	oils³:
Hydrogen Sulfide (A4)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches):  Depth (inches):  Thick Dark Surface (S9) (MLRA 147, 148)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  Which Matrix (F3)  Depleted Matrix (F3)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Type:  Depth (inches):  Hydric Soil Present? Yes No✓											
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3)  Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches):  Depth (inches):  Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Inn-Manganese Masses (F12) (LRR N, MLRA 136, 122)  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122) Siripped Matrix (S6) Ma										16)	
Stratified Layers (A5)						48)					
2 cm Muck (A10) (LRR N)					2)					ils (F19)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Strictive Layer (if observed):  Type: Depth (inches): Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (LRR N,	_	• ' '								oo (TE10)	
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophytic vegetation and Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No V			Δ(Δ11)								,
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			, (, (, 1, 1,		')			ici (Explai	II III I Komai	110)	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Strictive Layer (if observed):  Type:  Depth (inches):  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No			RR N.		(F12) <b>(LRR</b>	N,					
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.    Stripped Matrix (S6)			,		` / `	,					
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No				Umbric Surface (F13) (M	LRA 136, 12	2)	<sup>3</sup> Indica	ators of hy	drophytic v	vegetation	and
Strictive Layer (if observed):  Type:  Depth (inches):	_ Sandy R	edox (S5)		Piedmont Floodplain Soil	s (F19) <b>(ML</b> F	RA 148)	wetla	and hydrol	ogy must b	e present	,
Type: Depth (inches):				Red Parent Material (F21	) (MLRA 12	7, 147)	unles	ss disturbe	ed or proble	ematic.	
Depth (inches): No	estrictive L	.ayer (if observed):									
	Type:			<u> </u>							
marks:	Depth (inc	hes):				Н	lydric Soil P	resent?	Yes	No _	~
	emarks:					l .					

Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/30/19			
Applicant/Owner: Kensington PV I, LLC	State: OH Sampling Point: W-7				
Investigator(s): KMP, SAZ, JL	Section, Township, Range:				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex,	none): Convex Slope (%): 4-6			
Subregion (LRR or MLRA): LRRN		30.915331 Datum: NAD 83			
Soil Map Unit Name: Coshocton silt loam, 2	to 6 percent slopes	NWI classification: N/A			
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes No	_ (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norr	nal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology					
		tions, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	✓ No Is the Sempled Are				
	Is the Sampled Are				
Wetland Hydrology Present? Yes		Yes No			
Demantica	HGM: Depressional Water Type	e: NRPWW			
Managed field					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)				
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		Geomorphic Position (D2)			
Water-Stained Leaves (B9)		Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)		Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:		1 AO-Neutral Test (D3)			
	Depth (inches):				
	Depth (inches):				
		d Hydrology Present? Yes No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if a	ıvailable:			
Remarks:					

Sampling Point: W-71

Troo Stratum (Plot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	2	(A)
2			. <u> </u>	Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Species / torees / til Strata.		(5)
				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC:	100 /6	(A/B)
6				Prevalence Index worksheet:		
7						
	0 :	= Total Cov	er er	Total % Cover of:		
50% of total cover:0	20% of	total cover	0	OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x	2 =	_
1				FAC species x	3 =	
				FACU species x		
2						
3				· ———		
4				Column Totals: (A	.)	(B)
5				Duevelones Index D/A		
6				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indica		
7				1 - Rapid Test for Hydrophyt	tic Vegetation	
8			· <del></del>	✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0	1	
		= Total Cov		4 - Morphological Adaptation		norting
50% of total cover:0	20% of	total cover	<u> </u>			
Herb Stratum (Plot size: 5'				data in Remarks or on a s	. ,	
1. Leersia oryzoides	50	<b>✓</b>	OBL	Problematic Hydrophytic Veg	getation' (Expla	in)
2. Carex vulpnoidea	30		OBL			
3. Poa trvialis	20		FACW	<sup>1</sup> Indicators of hydric soil and wetl	land hydrology r	nust
	5			be present, unless disturbed or p	problematic.	
4. Persicaria hydropiperoides			OBL	Definitions of Four Vegetation	Strata:	
5				_ ,,, , , , , , ,		,
6				<b>Tree</b> – Woody plants, excluding more in diameter at breast height		
7				height.	t (DDI I), Togardi	C33 01
8						
				Sapling/Shrub – Woody plants,		
9			· ——	than 3 in. DBH and greater than m) tall.	or equal to 3.28	π (1
10				iii) taii.		
11		-	· ——	Herb - All herbaceous (non-woo	dy) plants, rega	rdless
		= Total Cov		of size, and woody plants less the	an 3.28 ft tall.	
50% of total cover: <u>52.5</u>	20% of	total cover	<u>21</u>	Woody vino All woody vinos a	rootor than 2 20	) ft in
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines g height.	reater than 3.20	o It Im
1				Trongin.		
2						
			· ——			
3						
4		-	· ——	Hydrophytic		
5				Vegetation		
	0	= Total Cov	er er	Present? Yes	No	
50% of total cover: 0	20% of	total cover	0			
Remarks: (Include photo numbers here or on a separate s	heet.)			1		
The market (metade pricte name of the a departure of	,					

0-16	Color (moist) 10YR 5/2	90	7.5YR 4/6	10 C	ype <sup>1</sup> Loc <sup>2</sup> M/PL	Texture	Remarks	
U-10 -	1011 3/2		7.31K 4/0		11/1/12			
					<u> </u>	SIC		
-								
 						<u> </u>		
					<del></del>			
<del></del>					<del></del>	<del></del>		
	5.5.1					21	B 1111 M M 1111	
	centration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked Sa	nd Grains.		Pore Lining, M=Matrix.	-d-:- C-:I- <sup>3</sup>
ydric Soil In				(==)			ors for Problematic Hy	
_ Histosol (A			Dark Surface		oo\		m Muck (A10) (MLRA 1	47)
_ Histic Epip	, ,				S8) <b>(MLRA 147</b> ,		ast Prairie Redox (A16)	
_ Black Histi				, , ,	LRA 147, 148)		(MLRA 147, 148)	(E40)
	Sulfide (A4) ayers (A5)		Loamy Gleye				edmont Floodplain Soils	(F19)
	(A10) <b>(LRR N)</b>		Depleted Mar				( <b>MLRA 136, 147)</b> ry Shallow Dark Surface	(TE12)
	Below Dark Surface	Δ (Δ11)		rk Surface (F6)	1		ner (Explain in Remarks)	
	Surface (A12)	· (A11)	Redox Depre		,	Ou	iei (Expiaiii iii Neiliaiks)	,
	cky Mineral (S1) <b>(L</b>	RR N		ese Masses (	F12) <b>(I RR N</b> .			
	147, 148)	,	MLRA 13		12) <b>(L</b> IXIX I <b>X</b> )			
	yed Matrix (S4)		Umbric Surfa	•	RA 136, 122)	3Indic	ators of hydrophytic veg	etation and
Sandy Red					(F19) <b>(MLRA 1</b> 4		and hydrology must be p	
Stripped M					(MLRA 127, 147		ss disturbed or problema	
	yer (if observed):				,	Í	•	
Type:								
Depth (inch	oc).		_			Hydric Soil P	Present? Yes	No
	co)					Tiyano com t	1030III. 103	
Remarks:								

# **Wetland Photograph Page**

Wetland ID W-71 Cowardin Code PEM Date 08/30/19



Photograph Number 341

Photograph Direction SE

Comments:



Photograph Number 342

Photograph Direction NE

Comments:



Photograph Number 343
Photograph Direction North

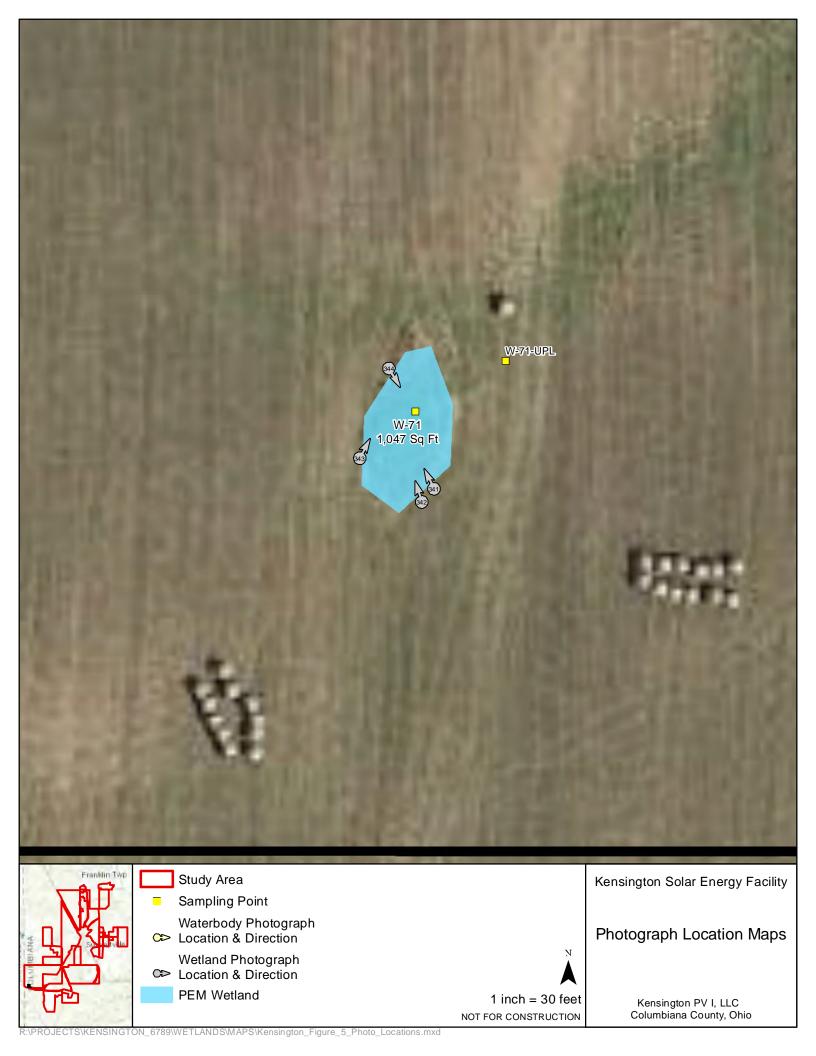
Comments:



Photograph Number 344
Photograph Direction NW

Comments:

::			



# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Kensington	City/County	_ Sampling Date: 08/30/19				
Applicant/Owner: Kensington PV I, LLC		State: PA				
Investigator(s): KMP, SAZ, JL						
Landform (hillslope, terrace, etc.): Depression	Local relief (co	ncave, convex, none): Convex	Slope (%): 4-6			
Subregion (LRR or MLRA): LRRN		Long: -80.915229				
Soil Map Unit Name: Coshocton silt loam, 2	to 6 percent slopes	NWI classif	fication: N/A			
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes	✓ No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach si						
		,				
	No.	e Sampled Area	.,			
	No with	in a Wetland? Yes	No			
Demantes		Mater Type:				
Cowardin Code: UPLAND	HGM:	Water Type:				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface So	il Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1		Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on	-				
Water Marks (B1)	Presence of Reduced Iron	(C4) Dry-Season	n Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in T	d Soils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	ation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or	Stressed Plants (D1)			
Iron Deposits (B5)		Geomorphi	c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)			
Water-Stained Leaves (B9)		Microtopog	raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)			
Field Observations:						
	Depth (inches):					
Water Table Present? Yes No _	Depth (inches):	_				
	✓ Depth (inches):	Wetland Hydrology Prese	ent? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	ring well aerial photos previous	inspections) if available:				
Bosonise Recorded Bata (stream gauge, monte	ing well, deliai priotos, previous	mspections), ii available.				
Remarks:						

Trop Strotum (Blot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				Description ( Description )
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)
6				(12)
7		·		Prevalence Index worksheet:
	0	= Total Cov	ver	Total % Cover of: Multiply by:
50% of total cover:0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
			·	UPL species x 5 =
3			· <del></del>	Column Totals: (A) (B)
4		-	· ——	(1)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7			<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	er er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				
1. Panicum virgatum	30		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Plantago lanceolata	20	<b>~</b>	FACU	
3. Ambrosia artemisiifolia	15	<b>V</b>	FACU	¹Indicators of hydric soil and wetland hydrology must
4. Setaria viridis	15		FACU	be present, unless disturbed or problematic.
5. Triflium pratense	15		FACU	Definitions of Four Vegetation Strata:
6. Persicaria pensylvanica	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7 Zea mays	15		FAC	more in diameter at breast height (DBH), regardless of
··			1710	height.
8		-	. ——	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11			·	Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>57.</u>	20% of	total cover	23	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Liverantic
5.				Hydrophytic Vegetation
	0	= Total Cov	/er	Present? Yes No V
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
Transactor (marage priore managed note on an a coparate of	,			

Depth	Matrix		needed to document the indicator or Redox Features			•	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>		ture	Remarks	
0-14	10YR 4/3	100		S	<u>                                     </u>		
	-						
	-						
Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS=Masked Sand Grain	s. <sup>2</sup> Loca	tion: PL=Pore Lini	ng, M=Matrix.	
lydric Soil I					Indicators for Pi		dric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S7)		2 cm Muck (	A10) <b>(MLRA 1</b> 4	47)
	pipedon (A2)		Polyvalue Below Surface (S8) (ML	RA 147, 148)		Redox (A16)	,
Black Hi			Thin Dark Surface (S9) (MLRA 147		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	. ,		oodplain Soils (	F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		
2 cm Mu	ck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow	/ Dark Surface	(TF12)
Depleted	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks)	
	rk Surface (A12)		Redox Depressions (F8)				
Sandy M	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Manganese Masses (F12) (LR	R N,			
MLRA	147, 148)		MLRA 136)				
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,		<sup>3</sup> Indicators of h		
	edox (S5)		Piedmont Floodplain Soils (F19) (N			logy must be p	
	Matrix (S6)		Red Parent Material (F21) (MLRA	127, 147)	unless disturb	ed or problema	atic.
Restrictive L	ayer (if observed):						
Type:			_				
Depth (inc	ches):			Hydr	ic Soil Present?	Yes	No 🗸
Remarks:							

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Kensington	: Columbiana	_ Sampling Date: 08/30/19					
Applicant/Owner: Kensington PV I, LLC	pplicant/Owner: Kensington PV I, LLC						
Investigator(s): KMP, SAZ, JL							
Landform (hillslope, terrace, etc.): Hillslope	oncave, convex, none): Concave	Slope (%): 2-4					
Subregion (LRR or MLRA): LRRN		Long: -80.890494					
Soil Map Unit Name: Orrville silt loam, 0 to							
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes	No (If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	Are "Normal Circumstances"	present? Yes No				
Are Vegetation, Soil, or Hydrolog							
SUMMARY OF FINDINGS – Attach s	ite map showing samplin	g point locations, transect	s, important features, etc.				
Hydrophytic Vegetation Present? Yes _	✓ No le th						
_ , , , ,	No.	ne Sampled Area	, No				
Wetland Hydrology Present? Yes _		nin a Wetland? Yes	NO				
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: RPWWN					
Disturbed by cattle grazing							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)				
Primary Indicators (minimum of one is required	check all that apply)	Surface So	il Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	egetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C <sup>2</sup>		atterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on	Living Roots (C3) Moss Trim	Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron	(C4) Dry-Season	n Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in T	Tilled Soils (C6) Crayfish Bu	rrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks	_ Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)					
Iron Deposits (B5)							
Inundation Visible on Aerial Imagery (B7)							
Water-Stained Leaves (B9)		Microtopographic Relie					
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)				
Field Observations:	4						
	Depth (inches):						
	Depth (inches):						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No					
Describe Recorded Data (stream gauge, monite	oring well, aerial photos, previous	inspections), if available:					
Remarks:							

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-72

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	3	(A)
2		-		Total Number of Dominant		
3				Species Across All Strata:	3	(B)
4				Species / torode / til Otrata.		(5)
				Percent of Dominant Species	100%	
5				That Are OBL, FACW, or FAC:	10076	(A/B)
6				Prevalence Index worksheet:		
7		-		Total % Cover of:	Multiply by	
		= Total Cov				
50% of total cover:0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x	2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	_
				UPL species x		
3				Column Totals: (A		
4				Column Totals (A	,	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica	·	
7				1 - Rapid Test for Hydrophyt		
8					-	
9				✓ 2 - Dominance Test is >50%		
<u> </u>	^	= Total Cov		3 - Prevalence Index is ≤3.0		
50% of total cover: 0				4 - Morphological Adaptation	าร <sup>1</sup> (Provide sup	porting
	20 /6 01	total cover		data in Remarks or on a	separate sheet)	
TIEID Stratuiii (1 lot size)	30	/	OBL	Problematic Hydrophytic Ve	getation <sup>1</sup> (Expla	in)
1. Leersia virginica				_ , , ,		,
2. Persicaria punctatum	10		FACW	<sup>1</sup> Indicators of hydric soil and wetl	land hydrology i	muet
3. Polygonum sagittatum	10		OBL	be present, unless disturbed or p		iiust
4. Lysamachia nummularia	5		FACW	Definitions of Four Vegetation		
5. Echinochloa crus-galli	15	<b>✓</b>	FACW	Deminions of Four Vegetation	Otrata.	
6. Cyperus esculentus	15		FACW	Tree - Woody plants, excluding		
7. Scirpus atrovirens	5		OBL	more in diameter at breast heigh	t (DBH), regard	ess of
· · ·				height.		
				Sapling/Shrub – Woody plants,	excluding vines	, less
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb – All herbaceous (non-woo	ndv) plants rega	rdless
	90	= Total Cov	ver .	of size, and woody plants less th		10.000
50% of total cover: 45	20% of	total cover	: <u>18</u>			
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines g	reater than 3.28	8 ft in
1				height.		
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	ver .	Present? Yes	No	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					
·	,					

Profile Desc	ription: (Describe t	o the dept	h needed to docun	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	c Features	3			
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 4/2	95	7.5YR 4/6	5	С	M/PL	SIL	
5-14	10YR 4/1	90	7.5YR 4/6	10	С	M/PL	SIL	
-								
						·		
	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		. , .		<b>148)</b> C	coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(4.4.4)	Redox Dark S					ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				0	other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDD N		
	Mucky Mineral (S1) <b>(L</b>	KK N,	Iron-Mangane		es (F12) (	LKK N,		
	147, 148)		MLRA 136	•	MI DA 13	e 122\	3Ind	icators of hydrophytic vogotation and
-	Gleyed Matrix (S4) Redox (S5)		Umbric Surfa Piedmont Flo					icators of hydrophytic vegetation and tland hydrology must be present,
-	Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):		Red Falelit iv	ialeriai (i	ZI) (IVILIN	A 121, 141	) un	less disturbed of problematic.
	Layer (II observeu).							
Type:			<u> </u>					
	ches):						Hydric Soil	Present? Yes No
Remarks:								
1								
1								
1								

# **Wetland Photograph Page**

Wetland ID W-72 Cowardin Code PEM Date 08/30/19



Photograph Number <u>345</u>
Photograph Direction NW

Comments:



Photograph Number 346

Photograph Direction SE

Comments:



Photograph Number 347

Photograph Direction SE

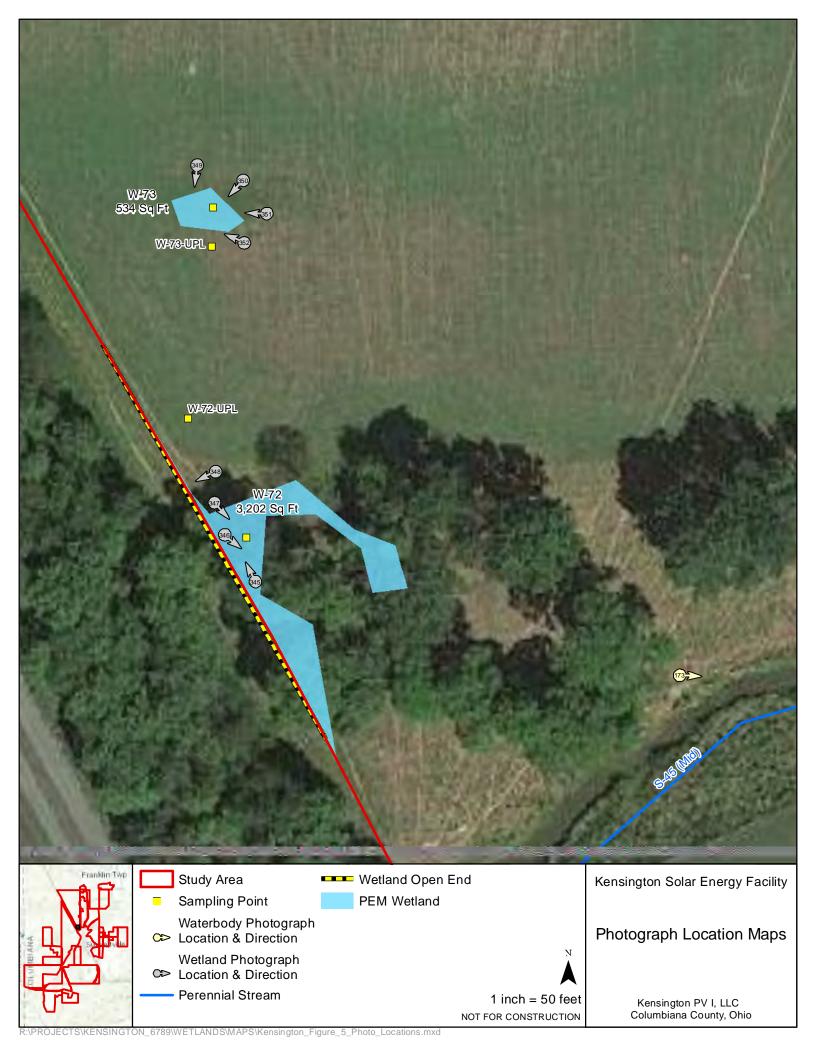
Comments:



Photograph Number <u>348</u>

Photograph Direction SW

Comments:



# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Kensington	oiana	Sampling Date: 08/30/19			
Applicant/Owner: Kensington PV I, LLC	City/County: Columb	State: OH	Sampling Point: W-72-UPL		
Investigator(s): KMP, SAZ, JL	Section, Township, Ra	ange: S14 T14N R4W	<u> </u>		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, cor	ivex, none): Concave	Slope (%): 4-6		
Subregion (LRR or MLRA): LRRN	Lat. 40.686983		Datum: NAD 83		
Soil Map Unit Name: Orrville silt loam, 0 to 3					
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes No _	(If no, explain in R	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances" r	present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach sit					
Hydrophytic Vegetation Present? Yes	No Is the Sample				
	No V		No		
	No within a Wetla	na? Yes	No		
Remarks: Cowardin Code: UPLAND	HGM: Water	Type:			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	<del>.</del>		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa			
Saturation (A3)	Oxidized Rhizospheres on Living Roo	ots (C3) Moss Trim L	ines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (				
Drift Deposits (B3)	Thin Muck Surface (C7)		_ Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)		
Iron Deposits (B5)		<del></del> .	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu			
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>		Microtopogra	aphic Relief (D4)		
		FAC-Neuliai	Test (D5)		
Field Observations: Surface Water Present? Yes No	Depth (inches):				
	Depth (inches):				
		atland Hudnalanu Duasa.	-42 V N- V		
(includes capillary fringe)	Depth (inches): w	etland Hydrology Preser	nt? Yes No		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspection	s), if available:			
Devente					
Remarks:					

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

10/19/2021 12:53:05 PM

in

Case No(s). 21-0764-EL-BGN

Summary: Application Application Exhibit P (Wetlands Report, Appx. C-4) electronically filed by Mr. Michael J. Settineri on behalf of Kensington PV 1, LLC