## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14
Applicant:										County:	Pennington
Investigators		MRK/OTG		Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	166A			_			Classification:				4544400 b4
Landform:	Talf		-0-1- 40 4		cal Relief:		F0FCCC7	Datum		Sample Point:	u-154n44w33-h1
Slope (%):	0 - 2%		_atitude: 48.1		Longitude:			Datum: ☑ Yes		Continu	
		nditions on the site		-	II : (If no, expl				□ No	Section:	
Are Vegetation		□, or Hydrology	•			Are	normal circum	-	esent?	Township:	Dia
Are Vegetation		, ,	□aturally pro	blematic?			Yes	□ No		Range:	Dir:
			No					Hydria Sail	le Procont?	) No	
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No			Hydric Soils Present? No Is This Sampling Point W				etland? <b>No</b>
Remarks:		sample point is loca		field unslane	from a wei	t meado		is This Sai	ripling Foll	it vvitilii A vv	etianu: 140
Remarks.	The upland		ated in a nay	neid apsiope	nom a we	Tileado	, vv .				
HYDROLOGY	/										
								1\			
		cators (Check all t	hat apply; M	inimum of one	e primary o	or two se	econdary require	ed):	C	_	
<u>Primary:</u> □	A1 - Surface V	Nator			B11 - Salt C	`ruet			Secondary:	<u>:</u> B6 - Surface S	oil Cracks
	A2 - High Wat				B13 - Aquat				i i		Vegetated Concave Surface
	A3 - Saturation			_	C1 - Hydrog		e Odor			B10 - Drainage	
	B1 - Water Ma				C2 - Dry Se					C3 - Oxidized I	Rhizospheres on Living Roots (tilled)
	B2 - Sediment	•					pheres on Living F	Roots (not till	• 🗀	C8 - Crayfish E	
	B3 - Drift Depo B4 - Algal Mat				C4 - Presen C7 - Thin M					D2 - Geomorpl	Nisible on Aerial Imagery
	B5 - Iron Depo				Other (Expla		100			D5 - FAC-Neut	
		n Visible on Aerial Ima	gery	_	- (-/\p.	<i>,</i>					ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									,
Field Observ	/ations:										
Surface Wate	er Present?	Yes □	Depth	:	(in.)			Wetland H	lydrology	Present?	N
Water Table	Present?	Yes □	Depth	:	(in.)			Wetland i	iyarology	1 1636111:	<u> </u>
Saturation Pr	esent?	Yes □	Depth	:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, monito	oring well, ae			ections),	if available:				
	<u> </u>			rial photos, pre	evious inspe	ections),	if available:				
Describe Reco	<u> </u>	etream gauge, monito or secondary hydro		rial photos, pre	evious inspe	ections),	if available:				
	<u> </u>			rial photos, pre	evious inspe	ections),	if available:				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	logical indicated to docu	rial photos, pre ators were ob ment the indic	evious inspesserved.	nfirm the	e absence of inc				
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Remarks: SOILS Profile Descri	No primary	or secondary hydrological be to the depth nee etion, RM=Reduced Mate	logical indicated to docu	rial photos, pre ators were ob ment the indic	evious inspesserved.	nfirm the	e absence of inc ore Lining, M=Matrix				
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary	or secondary hydrological be to the depth nee etion, RM=Reduced Materix	eded to docu	rial photos, pre ators were ob ment the indic d/Coated Sand C	served.  cator or col	nfirm the	e absence of incore Lining, M=Matrix	<b>(</b> )	<b>T</b>		
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	No primary option (Descriptration, D=Depleter) Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1	eded to docurrix, CS=Covere	ment the indicators decorated Sand Coolor (N	evious inspesserved.  cator or constrains; Location	nfirm the on: PL=Po Mottle	e absence of inc ore Lining, M=Matrix es Type	Location	SICL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15	No primary option (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  7/2	eded to docurix, CS=Covere	ment the indicators d/Coated Sand C	served.  cator or col	nfirm the	e absence of incore Lining, M=Matrix	<b>(</b> )	SICL SIC	gravel	Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	or secondary hydrological beto the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3	weded to docu rix, CS=Covere % 100 75 10 5 60 15	ment the indicators were ob  Color (I	evious insperserved.  cator or configurations; Location  Moist)  6/8	Mottle %	e absence of incore Lining, M=Matrix es Type C	Location M	SICL SIC SIC OT SC OT	Mixed matrix gravel gravel	
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR All Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che	weded to docu rix, CS=Covere % 100 75 10 5 60 15	cators were obecators were obecators were obecators were obecators and control of the color (Note	evious inspenserved.  cator or contrains; Location  Moist)  6/8  6/8  ot present	nfirm the on: PL=Po	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC OT SC OT Indicators A9 - 1 cm N A16 - Coast	Mixed matrix gravel gravel  for Problemation fluck (LRR I, J) t Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR All Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che	weded to docu rix, CS=Covere % 100 75 10 5 60 15	cators were obecators were obecators were obecators were obecators and control of the color (Note	cator or constraints; Location  Moist)  6/8  6/8  ot present; edox Matrix lucky Minera	nfirm the on: PL=Po	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC SIC OT SC OT Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	Mixed matrix gravel  gravel  for Problematic fluck (LRR I, J) t Prairie Redox ( furface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR All Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che	weded to documents, CS=Covere    %	cators were obeators were obeators were obeators were obeators were obeators and of the color (Note	cator or configurations; Locations; Location	nfirm the on: PL=Po	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC OT SC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Mixed matrix gravel  gravel  for Problemation  Muck (LRR I, J) t Prairie Redox ( Fourface (LRR G) Plains Depression	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR All Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che	weded to documents, CS=Covere    %	cators were obecators were obecators were obecators were obecators and control of the color (Note	cator or coresponding to the core of the coresponding to the cores	nfirm the on: PL=Po	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC SIC OT SC OT  Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	Mixed matrix gravel  gravel  for Problemation  Muck (LRR I, J) t Prairie Redox ( Fourface (LRR G) Plains Depression	: Soils <sup>1</sup> LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che dipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ark Surface	weded to documents, CS=Covere    %	cators were obecators were obecators were obecators were obecators and of the color (Note	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC OT SC OT  Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	Mixed matrix gravel  gravel  for Problematic fluck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material	E Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm M	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ark Surface ark Surface ark y Mineral lucky Peat or Peat (LR	seded to documents, CS=Covere    %   100   75   10   5   60   15   eck here if income	cators were obecators were obecators were obecators were obecators and of the color (Note	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC OT SC OT  Indicators (A) - 1 cm (A)	Mixed matrix gravel  gravel  for Problematic fuck (LRR I, J) t Prairie Redox ( furface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm M	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2  4/3  7/2  4/3  Indicators (che etic et che	seded to documents, CS=Covere    %   100   75   10   5   60   15   eck here if income	cators were obecators were obecators were obecators were obecators and of the color (Note	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC SIC OT SC OT  Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix gravel  gravel  for Problematic fuck (LRR I, J) t Prairie Redox ( furface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	E Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm Mi S3 - 5 cm Muc	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2  4/3  7/2  4/3  Indicators (che etic et che	seded to documents, CS=Covere    %   100   75   10   5   60   15   eck here if income	cators were obecators were obecators were obecators were obecators and of the color (Note	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C	Location  M	SICL SIC SIC OT SC OT  Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix gravel  gravel  for Problematic Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm Mi S3 - 5 cm Muc S4 - Sandy Gl	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2  4/3  7/2  4/3  Indicators (che etic et che	seded to documents, CS=Covere    %   100   75   10   5   60   15   eck here if income	cators were obesetors were obesetors were obesetors were obesetors and control of the control of	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C C RA 72, 73 of LRR	Location  M  H)	SICL SIC SIC OT SC OT  Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Mixed matrix gravel  gravel  for Problematic Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm Mi S3 - 5 cm Muc S4 - Sandy GI	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2  4/3  7/2  4/3  Indicators (che etic et che	seded to documents, CS=Covere    %   100   75   10   5   60   15   eck here if income	cators were obecators were obecators were obecators were obecators and of the color (Note	cator or coresponding to the coresponding to t	Mottle % 10 25	e absence of incore Lining, M=Matrix es Type C	Location  M  H)	SICL SIC SIC OT SC OT  Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Mixed matrix gravel  gravel  for Problematic Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-15 10-15 10-15 15-21  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mi S2 - 2.5 cm Mi S3 - 5 cm Muc S4 - Sandy Gl  Type:	be to the depth nee etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  7/2  2/1  4/3  7/2  4/3  Indicators (che depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2  4/3  7/2  4/3  Indicators (che etic et che	weded to documents, CS=Covered % 100 75 10 50 60 15 60 60 15 60 60 60 60 60 60 60 60 60 60 60 60 60	rial photos, presenters were observed ators were observed ators were observed ators and of the control of the c	cator or coresponding to the coresponding to t	Mottle % 10 25 ):	e absence of incore Lining, M=Matrix es Type C C W RA 72, 73 of LRR	Location  M  H)	SICL SIC SIC OT SC OT  Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	mixed matrix gravel  gravel  for Problemation fuck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression for Problemation furface (LRR G) Plains Depression for Problematic (Parent Material for Shallow Dark	Soils <sup>1</sup> LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface  ion and wetland hydrology must be present,

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w33-h1
-					•
<b>VEGETATIO</b>	(Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum (	Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.					(14b)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover				OBL spp. 0
	Total Cover =	0			FACW spp. $25$ $X Z = 50$
					FAC spp. $25$ $X 3 = 75$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{70}{}$ $x = \frac{280}{}$
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 120 (A) 405 (B)
4.					
5.					Prevalence Index = $B/A = 3.375$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Cover =		_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Lotus corniculatus	40	Y	FACU	
2.	Poa pratensis	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Agrostis gigantea	25	Y	FACW	present, unless disturbed or problematic.
4.	Solidago gigantea	20	N	FAC	Definitions of Vegetation Strata:
5.	Cirsium arvense	5	N	FACU	
6	Sonchus arvensis	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
					1161 D = 1 1.5.2.2.5.3.3 (1.61. 1.553)   Flatilo, 1090101000 01 0120.
13.					
14.					Manada Manana All woody wines recordless of bright
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	120			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
···	Total Cover =	0			
Remarks:	The upland sample point is dominated by bir		foil Kenti	icky blued	rass and redton
Nemarks.	The upland sample point is dominated by bir	u 5-100t ti e	ion, ixenic	icky blueg	lass and rediop.
Additional R	Remarks:				