

### MAP LEGEND Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways **Soil Rating Polygons** US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads Hydric (33 to 65%) Background Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%)

Not Hydric (0%)

Water Features

Not rated or not available

Streams and Canals

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

vveb Soil Survey ORL.

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Elkhart County, Indiana Survey Area Data: Version 23, Jun 4, 2020

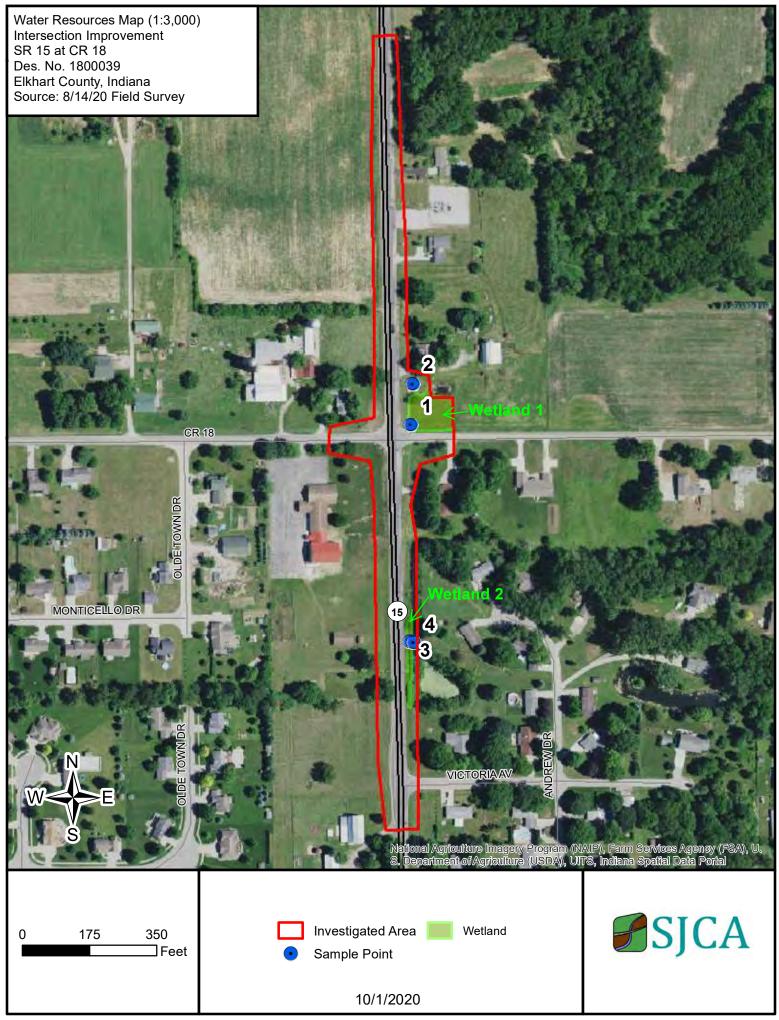
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

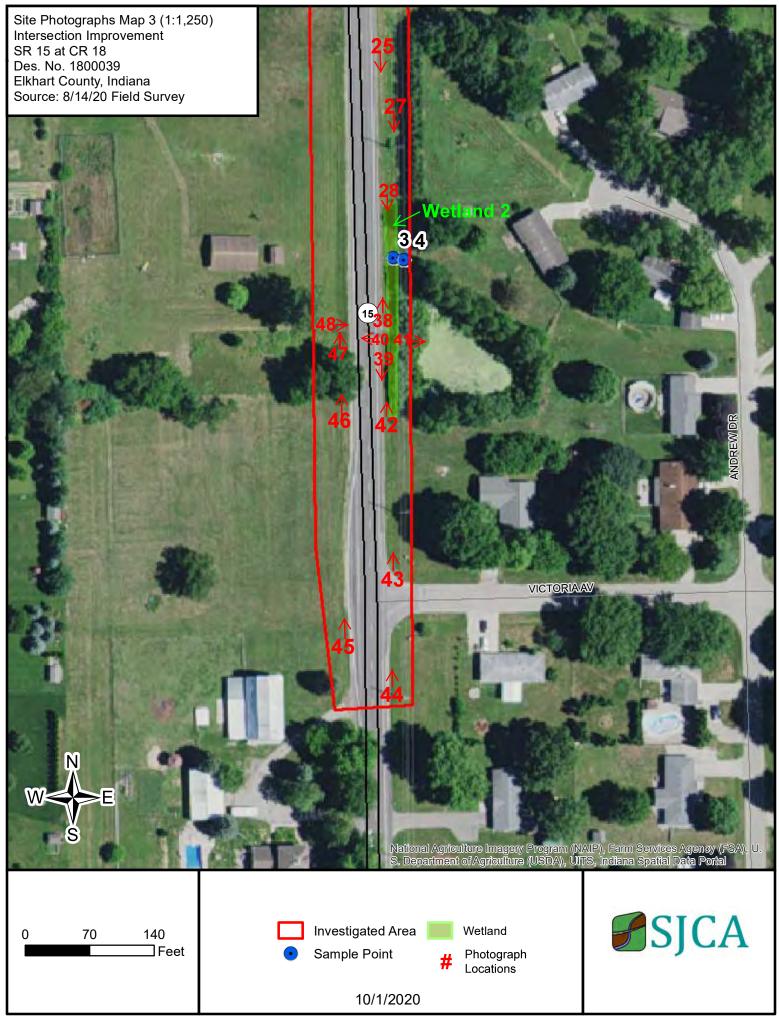
Date(s) aerial images were photographed: Jun 3, 2015—Jul 4, 2015

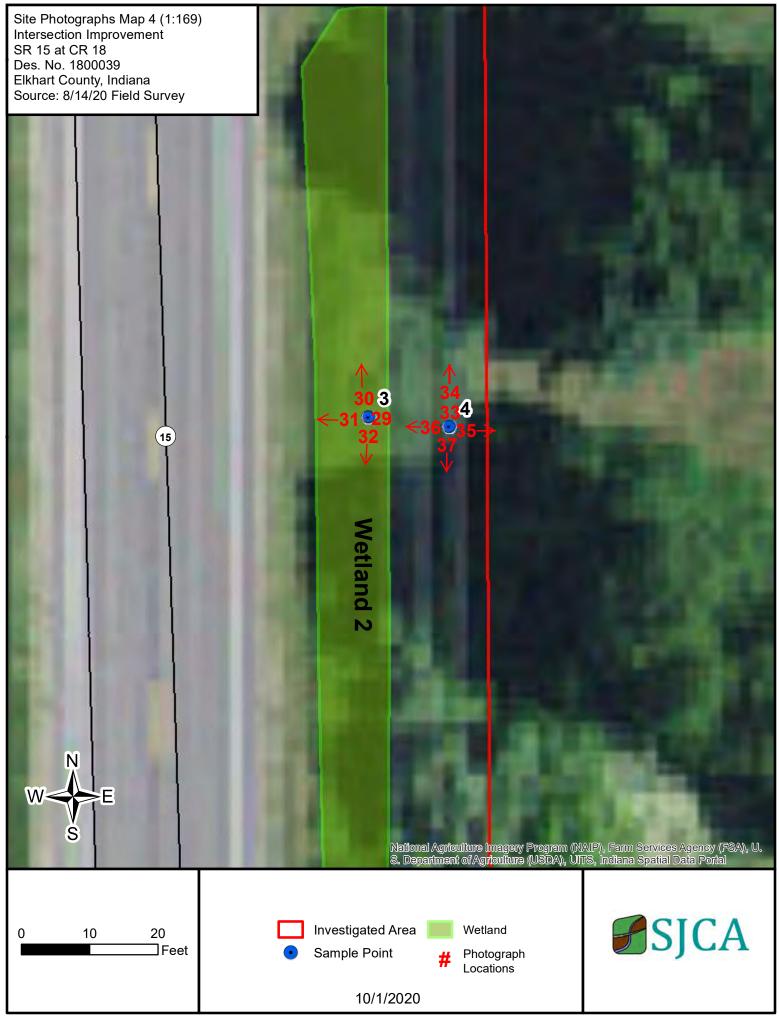
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BtxA	Bristol loamy sand, 0 to 2 percent slopes	0	17.7	32.8%
BtxB	Bristol loamy sand, 2 to 5 percent slopes	0	10.9	20.1%
BtxC	Bristol loamy sand, 5 to 10 percent slopes	0	0.7	1.2%
BtxD2	Bristol loamy sand, 10 to 18 percent slopes, eroded	0	4.2	7.8%
BufA	Bronson sandy loam, 0 to 1 percent slopes	6	6.7	12.4%
CnbC	Coloma sand, 5 to 10 percent slopes	0	1.7	3.1%
GczA	Gilford sandy loam, 0 to 2 percent slopes, gravelly subsoil	95	2.1	3.8%
ReyA	Rensselaer loam, 0 to 1 percent slopes	88	6.1	11.3%
TxuA	Tyner loamy sand, 0 to 1 percent slopes	0	0.1	0.2%
WobB	Williamstown-Crosier complex, 1 to 5 percent slopes	0	3.9	7.2%
Totals for Area of Inter	rest	1	54.0	100.0%







### WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SR 15 at CR 18, Des. 1800039	City/County: Elkhart	Sampling Date: 8/14/20			
Applicant/Owner: Strand Associates, Inc.	olicant/Owner: Strand Associates, Inc.				
Investigator(s): K. McLane	_ Section, Township, Rai	nge: SEC 15, TWP 37 N	I, RNG 6 E		
	Local relief	(concave, convex, none):	Concave		
	Long:85.821001°		Datum: WGS 84		
Soil Map Unit Name: ReyA-Rensselaer loam, 0-1% slopes		NWI classifica			
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes V No	(If no, explain in Re			
Are Vegetation, Soil, or Hydrology significan		'Normal Circumstances" p	resent? Yes V No		
Are Vegetation, Soil, or Hydrology naturally		eded, explain any answer			
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point le	ocations, transects,	, important features, etc.		
Hydrophytic Vegetation Present? Yes ✓ No	]				
Hydric Soil Present? Yes V No	Is the Sampled		1		
Wetland Hydrology Present? Yes No	within a Wetlan	nd? Yes <u></u> ▼	No		
Remarks:					
Point was taken within a fallow pasture, within Wetland 1.					
VEGETATION – Use scientific names of plants.					
25 ft Absolu		Dominance Test works	sheet:		
	er Species? Status	Number of Dominant Sp That Are OBL, FACW, of			
2					
3		Total Number of Domina Species Across All Strat	The state of the s		
4		Percent of Dominant Sp			
5		That Are OBL, FACW, o			
Sapling/Shrub Stratum (Plot size: 15 ft )	= Total Cover	Prevalence Index work	sheet:		
1		Total % Cover of:			
2.		OBL species	x 1 =		
3.		FACW species	x 2 =		
4			x 3 =		
5		AND 100 100 100 100 100 100 100 100 100 10	x 4 =		
Herb Stratum (Plot size: 5 ft )	= Total Cover		x 5 = (A) (B)		
1. Phalaris arundinacea 100	Y FACW	Column Totals.	(A) (B)		
2		Prevalence Index			
3		Hydrophytic Vegetatio			
4		1 - Rapid Test for H			
5		2 - Dominance Test 3 - Prevalence Inde			
6			daptations <sup>1</sup> (Provide supporting		
7			or on a separate sheet)		
9.		Problematic Hydrop	ohytic Vegetation¹ (Explain)		
10.		4			
Woody Vine Stratum (Plot size:)	= Total Cover	'Indicators of hydric soil be present, unless distu	and wetland hydrology must rbed or problematic.		
1		Hydrophytic			
2.		Vegetation			
7	= Total Cover	Present? Yes	s V No L		
Remarks: (Include photo numbers here or on a separate sheet.)		70			
Sample point is dominated by the invasive reed canary grass.					

SOIL	Sampling Point:1

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 3/2	100					SCL	
3-10	10YR 3/2	94	2.5YR 4/6	6	С	PL	SL	
10-16	10YR 4/2	90	7.5YR 5/8	10	С	М	SL	Depleted matrix
2			5	78			-	ē
°			<u>~</u>					· · · · · · · · · · · · · · · · · · ·
	<u> </u>	-W	-	_\\\ <u>\</u>	- —		<u> </u>	2
				-0.00				<u> </u>
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM:	=Reduced Matrix. M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		Coast	Prairie Redox (A16)
_	pipedon (A2)		100	Redox (S				Surface (S7)
Black H	istic (A3)		Strippe	d Matrix (	S6)			langanese Masses (F12)
	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		☐ Very S	Shallow Dark Surface (TF12)
_	d Layers (A5)			Gleyed M			U Other	(Explain in Remarks)
	uck (A10)			ed Matrix (				
	d Below Dark Surface	ce (A11)		Dark Surf	기 전환 영화 내려가 살아내려지 않는다.		31	f.h
	ark Surface (A12)  Mucky Mineral (S1)			Depression	urface (F7	)		s of hydrophytic vegetation and d hydrology must be present,
1	ucky Peat or Peat (S	231	<u></u> Redox	Depressio	ms (Fo)			s disturbed or problematic.
100	Layer (if observed)						unless	s distal bed of problematic.
Type:	Luyer (ii observed)	,						
	choc):						Hydric Soil	Present? Yes V No No
Depth (in	cnes).							
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
	cators (minimum of		red: check all that a	pply)			Second	ary Indicators (minimum of two required)
2000 1000	Water (A1)	one to requi	- Administration contents	ained Leav	(ec (RQ)			face Soil Cracks (B6)
	ater Table (A2)			auna (B13				inage Patterns (B10)
Saturati				atic Plants				-Season Water Table (C2)
	farks (B1)		Hydrogen					yfish Burrows (C8)
	nt Deposits (B2)				eres on Liv	ina Poots		uration Visible on Aerial Imagery (C9)
	posits (B3)				ed Iron (C	•	=	nted or Stressed Plants (D1)
	at or Crust (B4)				ion in Tille			omorphic Position (D2)
100000000000000000000000000000000000000	posits (B5)			k Surface		u cons (c		C-Neutral Test (D5)
	on Visible on Aerial	Imagery (R		Well Data	100 TO 10		= 1.50	5-Neutral Test (D5)
THE PROPERTY OF THE PROPERTY O	y Vegetated Concav			plain in Re				
Field Obser		re ourrace (	50) <u> </u>	piairiiri	cinarks)	1		
Surface Wat		Yes 🔲	No ✓ Depth (ir	ochoe):				
		The Sales and th						
Water Table Present?  Yes No Depth (inches):								
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No Depth (inches): Wetland Hydrology Present?								
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								
	aken within a love h	ina donres	eion Saturation is	risible on	2010 @	ale imaa	ery and NIM/I ~	ap aerial imagery from the last 5 years.
1 Oill Was I	andii wiliili a IUW-I)	ing depies	Sion. Oaturation is v	VISIDIC UII	2019 600	gie iiliagt	ciy and invitil	ap achai illiagery irolli tile last o years.

### WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SR 15 at CR 18, Des. 1800039	ect/Site: SR 15 at CR 18, Des. 1800039 City/County: Elkhart						)
Applicant/Owner: Strand Associates, Inc.	icant/Owner: Strand Associates, Inc.				State: IN Sampling Point: 2		
Investigator(s): K. McLane Section, Township, Range: SEC 15, TWP 37 N, RNG 6 E							
Landform (hillslope, terrace, etc.):Terrace/Pasture				(concave, convex, none)	Concave		
Slope (%): 0-2 Lat: 41.653067°		Long:	85.820978°		_ Datum: _W	/GS 84	
Soil Map Unit Name: ReyA-Rensselaer loam, 0-1% slopes	Soil Map Unit Name: ReyA-Rensselaer loam, 0-1% slopes						
Are climatic / hydrologic conditions on the site typical for this		ar? Yes	No No	(If no, explain in I	Remarks.)		
Are Vegetation, Soil, or Hydrology sig	nificantly o	disturbe	d? Are "	Normal Circumstances"	present? Y	es 🚺 N	。
Are Vegetation, Soil, or Hydrology na	turally prol	blematic	c? (If ne	eded, explain any answ	ers in Rema	rks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samp	ling point k	ocations, transects	s, importa	ant feature	s, etc.
Hydrophytic Vegetation Present? Yes No	$\overline{}$			s' • 1100 He			-1)
Hydric Soil Present? Yes No	$\overline{}$		s the Sampled	19899	No		
Wetland Hydrology Present? Yes No		v	vithin a Wetlan	nd? Yes	NO_		
Point was taken within a fallow pasture, outside of Wetlan	nd 1						
Point was taken within a failow pasture, outside of wettain	iiu i.						
VEGETATION – Use scientific names of plants.							
	Absolute	Domin	ant Indicator	Dominance Test wor	ksheet:		
			s? Status	Number of Dominant S		1	220
1				That Are OBL, FACW,	or FAC: _		(A)
2 3				Total Number of Domi Species Across All Str		2	(B)
4			102 15				(6)
5		34		Percent of Dominant S That Are OBL, FACW,		50	(A/B)
15 ft		= Total	Cover		nelocunimas presidente		( /
Sapling/Shrub Stratum (Plot size: 15 ft )				Prevalence Index wo Total % Cover of:		Multiply by:	
1		-		ANALYSIA CONTROL PROPERTY	0.0000000000000000000000000000000000000	=	_
3.		-		FACW species	1/2	_	
4				FAC species 40		= 120	
5.		26		FACU species 80	x 4	= 320	_,
5 ft		= Total	Cover	UPL species	x 5	=	
Herb Stratum (Plot size: 5 ft )  1. Schedonorus arundinaceus	80	Υ	FACU	Column Totals:120	(A)	440	_ (B)
Poa pratensis	40	Y	FAC	Prevalence Inde	x = B/A =	3.67	
3		10.		Hydrophytic Vegetati	W CONTROL S	rs:	_
4.				1 - Rapid Test for			
5.				2 - Dominance Te	st is >50%		
6		4		3 - Prevalence Inc	lex is ≤3.0¹		
7				4 - Morphological data in Remark	Adaptations	(Provide sup	porting
8		Ut-		Problematic Hydro			
9		-		i Toblematic Hydro	phytic vege	tation (Expla	,
10.	120	STATE CONTROL		<sup>1</sup> Indicators of hydric so	oil and wetlar	nd hydrology r	nust
Woody Vine Stratum (Plot size:)		= Total	Cover	be present, unless dist			economie
1				Hydrophytic			
2				Vegetation		No V	
		= Total	Cover	Present? Yo	ese	NO	
Remarks: (Include photo numbers here or on a separate sh	neet.)						
Point was dominated by typical lawn grasses.							

SOIL	Sampling Point: 2

Profile Des	cription: (Describe	to the dep				or confir	m the absence	of indicators.)
Depth (inches)	Matrix	0/		x Feature		1.002	Tautura	Damada
(inches) 0-13	Color (moist) 10YR 3/2	100	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	SCL Texture	Remarks Large cobble stones in soil
		-	8	9/60				(II
13-18	10YR 3/2	25	10YR 5/2	70	D	M	SCL	Large cobble stones in soil
			10YR 5/8	5	С	M		
2 <del>:</del>	3 1		5:				1 15 3	
-	-		<u> </u>					
			-	- N <u>S </u>				*
·								-
85	R <u>22</u>		<u></u>	10.5		v	e 42 <u>4</u>	<u></u>
<sup>1</sup> Type: C=C	Concentration, D=Dep	oletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy	Gleyed Ma	atrix (S4)		Coast	Prairie Redox (A16)
	pipedon (A2)		100	Redox (S				Surface (S7)
100 miles	listic (A3)		0	d Matrix (	(5)			langanese Masses (F12)
	en Sulfide (A4)			and the second of the second	neral (F1)			Shallow Dark Surface (TF12)
	ed Layers (A5) uck (A10)			Gleyed M			U Other	(Explain in Remarks)
	ed Below Dark Surfac	φ (Δ11)		ed Matrix ( Dark Surf				
	ark Surface (A12)	e (A11)			urface (F7	)	3Indicators	s of hydrophytic vegetation and
	Mucky Mineral (S1)			Depression		6		d hydrology must be present,
□ 5 cm M	ucky Peat or Peat (S	3)			correction of the			disturbed or problematic.
	Layer (if observed)	:						
Type: _C	Cobble	)					1000 000 000 000	
Depth (ir	nches):18						Hydric Soil	Present? Yes NoV
Remarks:	<u> </u>						2	
HYDROLO	200 - 2							
	drology Indicators:							
Primary Ind	icators (minimum of o	one is requi	red; check all that ap	oply)			<u>Seconda</u>	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta				0.000.000	face Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa					inage Patterns (B10)
Saturat	ion (A3)		True Aqua	atic Plants	(B14)		L Dry	-Season Water Table (C2)
Water M	Иarks (В1)		Hydrogen	Sulfide O	dor (C1)			yfish Burrows (C8)
_	ent Deposits (B2)		_		eres on Liv		55 15 mm	uration Visible on Aerial Imagery (C9)
The same of the sa	posits (B3)		Presence				Union 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nted or Stressed Plants (D1)
	at or Crust (B4)		:		ion in Tille	d Soils (C		omorphic Position (D2)
	posits (B5)		Thin Muck		Programme and the second		☐ FAC	C-Neutral Test (D5)
I AND THE PROPERTY OF THE PARTY	ion Visible on Aerial							
	ly Vegetated Concav	e Surface (	B8) U Other (Exp	plain in Re	emarks)			
Field Obse	rvations:							
Surface Wa	ter Present? Y	es	No Depth (in	iches):		_		
Water Table	e Present?	'es	No Depth (in	iches):				
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No V							y Present? Yes No	
	pillary fringe) ecorded Data (stream	aguag m	onitoring well periol	nhotos n	rovious inc	nostions)	if available:	24 (4) (5) (8
Describe Ne	ecorded Data (Stream	i gauge, mi	officing well, aerial	priotos, p	revious iris	pections)	, ii avaliable.	
Remarks:								
Point was	taken outside of the	low-lying d	epression and outs	ide of the	saturation	n that is v	isible on 2019	Google imagery and NWI map aerial
	om the last 5 years.	, ,						

### WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SR 15 at CR 18, Des. 1800039	City/County: Elkhart		Sampling Date: 8/14/20		
Applicant/Owner: Strand Associates, Inc.	State: IN Sampling Point: 3				
Investigator(s): K. McLane	Section, Township, Range: SEC 22, TWP 37 N, RNG 6 E				
		(concave, convex, none):	Concave		
Slope (%): 0-2 Lat: 41.651220°	Long:85.821039°		Datum: WGS 84		
Soil Map Unit Name: BufA-Bronson sandy loam, 0-1% slopes		NWI classific			
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes 🚺 No				
Are Vegetation, Soil, or Hydrology significar	ntly disturbed? Are	"Normal Circumstances" p	oresent? Yes 🗸 No		
Are Vegetation, Soil, or Hydrology naturally		eeded, explain any answe			
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point	locations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes ✓ No	]				
Hydric Soil Present? Yes ✓ No	Is the Sample		7		
Wetland Hydrology Present? Yes   ✓ No	within a Wetla	nd? Yes✓	No		
Remarks:		-			
Point was taken within a roadside ditch wetland, Wetland 2, alc	ong the east side of SR 1	5.			
VEGETATION – Use scientific names of plants.					
Tree Stratum (Plot size: 25 ft ) Absolu		Dominance Test work	sheet:		
	ver Species? Status	Number of Dominant Sp That Are OBL, FACW, of			
2		Comprehensive Co			
3.		Total Number of Domini Species Across All Stra	107 Table 107 Ta		
4		Percent of Dominant Sp			
5		That Are OBL, FACW, of			
Sapling/Shrub Stratum (Plot size:15 ft)	= Total Cover	Prevalence Index work	ksheet:		
1		Total % Cover of:			
2.		OBL species	x 1 =		
3.		FACW species	x 2 =		
4	<del></del>		x 3 =		
5	—u—————	- No. 10 10 10 10 10 10 10 10 10 10 10 10 10	x 4 =		
Herb Stratum (Plot size: 5 ft )	= Total Cover		x 5 =		
1. Phalaris arundinacea	Y FACW	Column Totals:	(A) (B)		
2. Asclepias syriaca 20	FACU	Prevalence Index	= B/A =		
3		Hydrophytic Vegetation			
4		1 - Rapid Test for H			
5		2 - Dominance Tes 3 - Prevalence Inde			
6			Adaptations <sup>1</sup> (Provide supporting		
7			s or on a separate sheet)		
8		Problematic Hydrop	phytic Vegetation¹ (Explain)		
10		2			
2	= Total Cover	'Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.		
Woody Vine Stratum (Plot size:)			and the second		
1		Hydrophytic Vegetation			
2	= Total Cover	Present? Yes	s_V No		
Remarks: (Include photo numbers here or on a separate sheet.)					
Sample point is dominated by the invasive reed canary grass.					

SOIL	Sampling Point: 3

Depth		cription: (Describe	to the dep				or confin	m the absence of it	ndicators.)
10	Depth (inches)	Color (moist)	%				l oc²	Texture	Remarks
5-12	Part of the second		Total American		- 79				T.G.Ma.No
12-18   10 YR 3/2   20	5-12	10YR 3/2	92	2 5YR 4/6	8		M		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   Location: PL=Pore Lining, M=Matrix, PL/dric Soil Indicators:   Indicators for Problematic Hydric Soils*:   Indicator				5	1985		S		150
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   Tupe:   Indicators for Problematic Hydric Soils*:   Indicators for Problematic Hydric Soil Park Surface (S7)   Indicators for Problematic Hydric Soil Hydrogola Matrix (F2)   Indicators for Hydrophytic Vegetation and wetland Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology must be present, unless disturbed or problematic.   Indicators for Hydrology for Hydrol	12-10	1011372							-
Hydric Soll Indicators:    Histosci (A1)			250 <u>6</u>	10YR 5/8	10		M	F (5 - 10 V)	<del>`</del>
Hydric Soll Indicators:    Histosci (A1)		<u> </u>		9	N <u>St</u>				
Hydric Soll Indicators:    Histosci (A1)									25
Hydric Soll Indicators:    Histosci (A1)	86 <u> </u>	e <u></u>	<u> </u>	<u> </u>	NO 150	_00	Y	r	
Histoscl (A1)			oletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.		
Histic Epipedon (A2)   Sandy Redox (S5)   Dark Surface (S7)   Hydrogen Sulfide (A4)   Loamy Mucky Mineral (F1)   Loamy Mucky Mineral (F1)   Very Shallow Dark Surface (TF12)   Very Shallow D									
Stripped Matrix (S6)	=			10				_	
Hydrogen Sulfide (AA)		D D D		1-2(4)					5) 5)
□ stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Other (Explain in Remarks) □ Depleted Below Dark Surface (A11) □ Depleted Below Dark Surface (A12) □ Depleted Dark Surface (F6) □ Tink Dark Surface (A12) □ Depleted Dark Surface (F7) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F8) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F8) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F8) □ Dep		70 (3)		0.00		8 (1)			
□ centrolity (A10) □ cepleted Matrix (F3) □ cepleted Dark Surface (A11) □ cepleted Dark Surface (A12) □ cepleted Dark Surface (A12) □ cepleted Dark Surface (F7) □ cepleted Dark Surface (A12) □ cepleted Dark Surface (F7) □ cepleted Concave Surface (F8) □ cepleted Concave Surface (F7) □ cepleted Concave Surface (F8) □		and the second s							The state of the s
□ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic.    Samdy Mucky Mineral (S1) □ Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic.    Type: □ Depth (inches): □ Hydric Soil Present? Yes □ No □								or	
Gandy Mucky Mineral (S1)			ce (A11)			[17] [17] 이번의 대한 다른 대한 다시다.			
5 cm Mucky Peat or Peat (S3)							)		
Remarks:    Hydric Soil Present?   Yes   No		일본 경기 전체 경기 시작 경기	2)	Redox I	Depression	ons (F8)		ADDESS (1984) 10 ACT 11 (1987)	[1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
Type:		- 12	20					uniess dist	urbed or problematic.
Pige of the position (CS)    Secondary Indicators:   Secondary Indicators:   Secondary Indicators (minimum of two required)		24,01 (11 05001104)	3.0						
Secondary Indicators (minimum of two required)	***************************************	nches):						Hydric Soil Pre	sent? Yes V No No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced fron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Thin Muck Surface (C7)  Iron Deposits (B5)  Iron Deposits (B5)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	W 250	<u> </u>							
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Water Marks (B1)  Sediment Deposits (B3)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Record Iron Resont?  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  (includes capillary fringe)  Record Iron Servicus in Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dra									
Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)	HYDROLO	OGY							
Surface Water (A1)									
☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Drainage Patterns (B10)   ☐ Saturation (A3) ☐ True Aquatic Plants (B14) ☐ Dry-Season Water Table (C2)   ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8)   ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9)   ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1)   ☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2)   ☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ FAC-Neutral Test (D5)   ☐ Inundation Visible on Aerial Imagery (B7) ☐ Gauge or Well Data (D9)   ☐ Sparsely Vegetated Concave Surface (B8) ☐ Other (Explain in Remarks)    Field Observations:  Surface Water Present?  Yes ☐ No ☑ Depth (inches):  Wetland Hydrology Present? Yes ☑ No ☑ Depth (inches):  Wetland Hydrology Present? Yes ☑ No ☑ Depth (inches):  Wetland Hydrology Present? Yes ☑ No ☑ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Remarks:	Primary Ind	icators (minimum of o	one is requi	red; check all that ap	oply)			Secondary Ir	ndicators (minimum of two required)
□ Saturation (A3) □ True Aquatic Plants (B14) □ Dry-Season Water Table (C2) □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Crayfish Burrows (C8) □ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1) □ Algal Mat or Crust (B4) □ Recent Iron Reduction in Tilled Soils (C6) □ Geomorphic Position (D2) □ Iron Deposits (B5) □ Thin Muck Surface (C7) □ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes □ No □ Depth (inches): □ Wetland Hydrology Present? Yes □ No □ Depth (inches): □ No □ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:		성실하게 하지않았다면서 10명 전 10명 Constant							
□ Water Marks (B1)       □ Hydrogen Sulfide Odor (C1)       □ Crayfish Burrows (C8)         □ Sediment Deposits (B2)       □ Oxidized Rhizospheres on Living Roots (C3)       □ Saturation Visible on Aerial Imagery (C9)         □ Drift Deposits (B3)       □ Presence of Reduced Iron (C4)       □ Stunted or Stressed Plants (D1)         □ Algal Mat or Crust (B4)       □ Recent Iron Reduction in Tilled Soils (C6)       □ Geomorphic Position (D2)         □ Iron Deposits (B5)       □ Thin Muck Surface (C7)       □ FAC-Neutral Test (D5)         □ Inundation Visible on Aerial Imagery (B7)       □ Gauge or Well Data (D9)         □ Sparsely Vegetated Concave Surface (B8)       □ Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes □ No ☑ Depth (inches):         Water Table Present?       Yes □ No ☑ Depth (inches):         Saturation Present?       Yes □ No ☑ Depth (inches):         Wetland Hydrology Present?       Yes ☑ No ☑ Depth (inches):         Cincludes capillary fringe)       Wetland Hydrology Present?       Yes ☑ No ☑ N									
Sediment Deposits (B2)									CONTRACTOR CONTRACTOR OF THE C
□ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1) □ Algal Mat or Crust (B4) □ Recent Iron Reduction in Tilled Soils (C6) □ Geomorphic Position (D2) □ Iron Deposits (B5) □ Thin Muck Surface (C7) □ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes □ No ✓ Depth (inches): □ Wetland Hydrology Present? Yes □ No ✓ Depth (inches): □ No □ Depth (inches): □ No □ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	_						ina Doota		CONTRACTOR CONTRACTOR ALCOHOLD
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:							•	· –	
□ Iron Deposits (B5) □ Thin Muck Surface (C7) □ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Wetland Hydrology Present? Yes □ No ☑ Depth (inches): □ No □ Depth (inches): □ No □ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	The same state of								
□ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes □ No ☑ Depth (inches): Water Table Present? Yes □ No ☑ Depth (inches): Saturation Present? Yes □ No ☑ Depth (inches):  Saturation Present? Yes □ No ☑ Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:		의 경기 가장 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		1			u cons (c		1 (C. 1975)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:			Imagery (B						and rest (50)
Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	- Line to a more control		•			2.18(4),52(2-3)(2)			
Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	Field Obse	rvations:							
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	Surface Wa	ter Present?	es	No Depth (in	ches):		_		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	Water Table	Present?	es _	No Depth (in	ches):				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:			es	No Depth (in	ches):		_ Wet	land Hydrology Pr	esent? Yes V No No
			n gauge, mo	onitoring well, aerial	photos, p	revious ins	pections)	, if available:	
	Domestra								
Point was taken within a ditch between the raised roadway and raised terrace to the east.		takan within - ilitat	hoture = : 1	o noto od na astrono	ad r=! !	l towns 1	the = '		
	Point was	taken within a ditch	belween th	e raised roadway af	nu raised	i terrace to	ine east.		

### WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SR 15 at CR 18, Des. 1800039		City/Count	y: Elkhart	Sampling Date	8/14/20	
Applicant/Owner: Strand Associates, Inc.				State: IN	Sampling Point	t: <u>4</u>
Investigator(s): K. McLane		Section, To	ownship, Rai	nge: SEC 22, TWP 37 N	, RNG 6 E	34
Landform (hillslope, terrace, etc.):terrace			(concave, convex, none):			
Slope (%): 2-5 Lat: 41.651218°		Long:85		•	Datum: WGS	84
Soil Map Unit Name: BufA-Bronson sandy loam, 0-1% slo			NWI classifica			
Are climatic / hydrologic conditions on the site typical for this		ar2 Ves	√ No	(If no, explain in Re		
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances" p	- Company - Condition	√ No
Are Vegetation, Soil, or Hydrology na				eded, explain any answer		
SUMMARY OF FINDINGS – Attach site map s			1,500,000		75-4600 (1.000 (	
		Jampin	ig point i	oodiiono, tranocoto,	important	10010100, 011
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No		ls t	he Sampled	Area	1 🔽	7
Wetland Hydrology Present? Yes No		with	hin a Wetlar	nd? Yes	No	<u></u>
Remarks:		, and the second	or 51 -01 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	at Full Coulder		5.51
Point was taken east of SP 3/Wetland 2, on the raised to	errace eas	t of the dit	ch.			
VEGETATION – Use scientific names of plants.						
25 ft	Absolute		t Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size: 25 ft , Rhus typhina	% Cover 50	Species?	Status_ UPL	Number of Dominant Sp		745
2. Populus deltoides	5	· ·	FAC	That Are OBL, FACW, o	r FAC:	(A)
3				Total Number of Domina		(B)
4.		90	0.00	Species Across All Strat	a	(В)
5.		311		Percent of Dominant Sp That Are OBL, FACW, of		3 (A/B)
15.0	55	= Total Co	ver		CONTRACTOR OF STREET	(٨/۵)
Sapling/Shrub Stratum (Plot size: 15 ft )	15	Y	UPL	Prevalence Index work		
1. Rhus typhina			- UPL	Total % Cover of:	000000000	iply by:
2		-		OBL species 80	x1=	160
3				FACW species 80 15	^	45
4		à.	50.0	FACU species 40		160
	15	= Total Co	ver	UPL species 65		325
Herb Stratum (Plot size: 5 ft )				Column Totals: 200		690 (B)
1. Phalaris arundinacea	80	Y	FACW	22 0 0 0	3	45
2. Asclepias syriaca	20	1	FACU	Prevalence Index	- b/A	
3. Schedonorus arundinaceus Apocynum cannabinum	10		FACU FAC	Hydrophytic Vegetatio  1 - Rapid Test for H		otation
Winds		31 <u>11</u>	TAC	2 - Dominance Test	[] [] [] [] [] [] [] [] [] [] [] [] [] [	etation
5		) <del>,</del>		3 - Prevalence Inde		
6		3		4 - Morphological A		ovide supporting
7 8				data in Remarks		
9.		10 <del>00</del>		Problematic Hydrop	hytic Vegetatio	n¹ (Explain)
10.				2		
	130	= Total Co	ver	<sup>1</sup> Indicators of hydric soil be present, unless distu		
Woody Vine Stratum (Plot size:)				be present, unless dista	bed of problem	nauc.
1		10		Hydrophytic		
2			210-05	Vegetation Present? Yes	No	
Remarks: (Include photo numbers here or on a separate si	$\overline{}$	= Total Co	ver	THE SECOND SECON		
The reed canary grass has spread up the slope from the	ulton.					

SOIL	Sampling Point:4

Dept	Profile Des	cription: (Describe	to the depth	needed to docu	ment the ind	licator	or confirm	the absence of	indicators.)
1017R 3/3	Depth		- 2 2						
State	PROPERTY IN		NO. 100 10 10	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	THE CONTRACTOR OF THE	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   T-Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.   T-Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.   T-Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.   T-Location: PL=Pore Lining, MS=Masked Sand Grains.   T-Location: PL=Pore Lining		10YR 3/3							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Natrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced (F1) C=Concentration, Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Natrix, MS=Masked Sand Ratrix, MS=Masked Sand Reduced (F1) C=Concentration, Matrix, MS=Masked Sand Reduced Redu	5-18	10YR 3/3	60					SL	
Hydric Soil Indicators:	100	10YR 4/3	40						
Hydric Soil Indicators:	2	-			100	7		2 2 2	
Hydric Soil Indicators:	-							<u> </u>	
Hydric Soil Indicators:		21	<u> </u>		-				- 02
Hydric Soil Indicators:	-								
Hydric Soil Indicators:	89				30 <u>5</u>			<u> </u>	
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Black Hydrogen Sulfide (A4) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Black Hydrogen Sulfide (A4) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Black Hydrogen Sulfide (A4) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Bandy Mucky Mineral (S1) Semmeral (S1) Semmeral (S1) Depleted Below Dark Surface (A12) Bandy Mucky Mineral (S1) Depleted Below Dark Surface (A12) Bandy Mucky Mineral (S1) Depleted Below Dark Surface (A12) Bandy Mucky Mineral (S1) Depleted Below Dark Surface (A12) Dark Dark Surface (A12) Depleted Below Dark Surface (A12) Dark Surface (A12) Deplete Below Dark Surface (A12) Dark Surface (A1	<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM=R	educed Matrix, M	S=Masked S	and Gra	ains.		
Histic Epipedon (A2)	Hydric Soil	Indicators:		_				Indicators for	r Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)	_	13		100		x (S4)			
Hydrogen Sulfide (A4)		1 50 10 10		2-510				_	5) 5)
Stratified Layers (A5)  □ 2 cm Muck (A10) □ Depleted Below Dark Surface (A11) □ Depleted Below Dark Surface (A11) □ Depleted Below Dark Surface (A12) □ Depleted Dark Surface (F7) □ Sandy Mucky Mineral (S1) □ Schody Mucky Mineral (S1) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Depleted Dark Surface (F7) □ Present? Yes □ No ☑ Depth (inches): □ Sediment Deposits (B3) □ Presence of Reduced Iron (C4) □ Sufface (B3) □ Algal Mat or Crust (B4) □ Iron Deposits (B3) □ Presence of Reduced Iron (C4) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) □ Surface (Water Present? □ Sufface (Water Present? □ Sufface (Water (A1) □ Depth (inches): □ Sufface (Water (A		70		(4)					
□ 2 cm Muck (A10) □ Depleted Matrix (F3) □ Redox Dark Surface (A11) □ Depleted Below Dark Surface (A12) □ Depleted Dark Surface (F6) □ Redox Dark Surface (F7) □ Redox Dark Surface (F8) □ Redox Dark S		All the second s							
□ pelpeted Below Dark Surface (A11) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Sandy Mucky Mineral (S1) □ Sch Mucky Peat or Peat (S3) □ Redox Depressions (F8) □ Redox Depressions (F8) □ Redox Depressions (F8) □ Wetland Hydrology must be present, unless disturbed or problematic. □ Standy Mucky Peat or Peat (S3) □ Restrictive Layer (if observed): □ Type: □ Depth (inches): □ Depth (inches): □ Depth (inches): □ Remarks: □ Wetland Hydrology Indicators: □ Primary Indicators (minimum of one is required; check all that apply) □ Surface Water (A1) □ High Water Table (A2) □ Aquatic Fauna (B13) □ Drift Depoist (B3) □ Water Marks (B1) □ Saduration (A3) □ Drift Depoists (B2) □ Drift Depoists (B2) □ Drift Depoists (B3) □ Presence of Reduced (Iron (C4) □ Algal Mat or Crust (B4) □ Inon Depoists (B5) □ Inon Depoists (B6) □ Inon Depoists (B7) □ Square Water Present? □ Ves □ No □ Depth (inches): □ Surface Water Present? □ Ves □ No □ Depth (inches): □ Surface Water Present? □ Ves □ No □ Depth (inches): □ Saturation Present? □ Ves □ No □ Depth (inches): □ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_							Unier (Ex	cpiain in Remarks)
Thick Dark Surface (A12)	- 1/2/2000 Million (March 1997)		e (A11)						
Sandy Mucky Mineral (S1)			~ ( \					3Indicators of	hydrophytic vegetation and
Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:    Hydric Soil Present?   Yes   No   V				200.00					
Type: Depth (inches):	5 cm Mi	icky Peat or Peat (S	3)	Car Ha Telescolotectorio		athi wa ta		unless dis	sturbed or problematic.
Remarks:    HYDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (minimum of one is required: check all that apply)   Secondary Indicators (minimum of two required)   Surface Water (A1)   Water-Stained Leaves (B9)   Surface Soil Cracks (B6)   Usurface Soil Cracks (B6)   Drainage Patterns (B10)   Drainage Patterns (B10)	Restrictive	Layer (if observed)	:						
New Company	Type:			20				Undele Cell De	
HYDROLOGY  Wetland Hydrology Indicators:	Depth (in	ches):		_				Hydric Soil Pr	esent? Yes NoV
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)     Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Popth (inches):  No Popth (inches):  Saturation Present? Yes	Remarks:	0		100				0.	
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### Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

#### **BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR PJD: $N_0$	vember 6.	2020
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B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Kevin McLane SJCA, Inc.,1104 Prospect Street Indianapolis, IN 46203 (317) 634-4110

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

### D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The Indiana Department of Transportation (INDOT) and the Federal Highway Administration (FHWA) intend to proceed with the State Road (SR) 15 at County Road (CR) 18 Intersection Improvement Project in Elkhart County, Indiana (Des. 1800039). The project is located at the intersection of SR 15 and CR 18, 1.03 miles south of US 20. The current intersection is stop controlled along CR 18, with SR 15 having no stop signs. The project will involve the addition of left turn lanes in each direction of SR 15. The turn lanes constructed will be approximately 585 feet in total length in each direction of SR 15. Rumble strips are to be added along the shoulders and centerlines of SR 15. Maintenance of traffic will require the widening of the road to one side and shifting traffic while the other side is under construction.

# (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

	State: IN	County/parish/borough: Elkhart	City: N/A
	Center coordinates of	site (lat/long in degree decimal format):	
	Lat.: 41.652659°	Long.: -85.821165°	
	Universal Transverse	Mercator: 16 T	
	Name of nearest water	<sup>erbody:</sup> Pine Creek	
Ε.	REVIEW PERFORME	D FOR SITE EVALUATION (CHECK ALL	THAT APPLY):
	Office (Desk) Dete	ermination. Date:	
	Field Determination	on. Date(s):	

# TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Wetland 1	41.652773°	-85.821001°	0.24 acre	emergent wetland	Section 404
Wetland 2	41.651220°	-85.821039°	0.06 acre	emergent/shrub wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

### SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources

below where indicated for all checked items: Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map: see maps attached to Waters Report ■ Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale: Data sheets prepared by the Corps: \_\_\_\_\_\_ Corps navigable waters' study: \_\_\_\_\_\_\_\_\_\_\_\_ U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. ■ U.S. Geological Survey map(s). Cite scale & quad name: 24k, Bristol Natural Resources Conservation Service Soil Survey. Citation: Elkhart County Soil Survey ■ National wetlands inventory map(s). Cite name: USFWS NWI Wetland Mapper ☐ State/local wetland inventory map(s): FEMA/FIRM maps: FIRM Floodplain Map from IndianaMap 100-year Floodplain Elevation is: \_\_\_\_\_\_(National Geodetic Vertical Datum of 1929) ■ Photographs: Aerial (Name & Date): Other (Name & Date): Site Photographs 8/14/20 Previous determination(s). File no. and date of response letter: ☐ Other information (please specify): IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations. 11/6/20 Signature and date of Signature and date of Regulatory staff member person requesting PJD completing PJD (REQUIRED, unless obtaining the signature is impracticable)1

<sup>&</sup>lt;sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

### DES 1800039

### Appendix G

### **Public Involvement**

(This Appendix will be updated upon completion of the public involvement process)



629 Washington Street Columbus, IN 47201 (P) 812 372-991 I

### Sample Notice of Entry Letter

### NOTICE OF SURVEY

June 24, 2020



Re: Location Control Route Survey for the Indiana Department of Transportation

State Road (SR) 15 at Country Road (CR) 18 Intersection Improvement

Elkhart County, Indiana Des. No. 1800039

### Dear Property Owner:

Strand Associates, Inc. (Strand) information indicates that property is occupied or owned by you near this proposed intersection improvement project. Strand employees will conduct a survey of the project area in the near future. It may be necessary for Strand to come onto your property to complete this work. This is allowed by law as stated in Indiana Code IC 8-23-7-26. Strand will show you identification, if you are available, before coming onto your property. If you have sold this property, or it is occupied by someone else, please provide any known name and address changes of the new owner or current occupant so Strand may contact them about the survey.

The survey work will include mapping the location of features such as trees, buildings, fences, driveways, sidewalks, and utilities within Strand project limits. The survey is needed for proper planning and design of this intersection improvement project. Please be assured of Strand's sincere desire to cause you as little inconvenience as possible during this survey.

At this stage, Strand generally does not know what affect, if any, this project may eventually have on your property. If it is determined at a later time that your property will be affected, you will be contacted with additional information. If any problems occur, please contact Strand at (812) 372-9911 or write to the address provided. Thank you for your cooperation.

Sincerely,

STRAND ASSOCIATES, INC.®

Jacob E. Fitzsimmon, P.L.S.

DES 1800039

Appendix G

Air Quality

SPONSOR	CONTR ACT#/ LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
appanee	41150 / 1702862	Init.	ST 1043	Road Rehabilitation (3 R/4R Standards)	Woodview Dr. from N. Main St. (SR 19) to Oakland Ave. (Co Rd	Fort Wayne	.92	STBG		Group III Program	CN	\$2,330,400.00	\$0.00				\$2,330,400.00	
					17			ı		Local Funds	CN	\$0.00	\$582,600.00			\$76,000.00	\$506,600.00	
	1	1 4 07	TOT 4042	<b>-</b>		To at Marine	1 00	ÎCTRO	T #2.002.000.00	One well Dreemen	Î DW	1 040,000,001	#0.00I					
lappanee	41150 / 1702862	A 07		Road Rehabilitation (3 R/4R Standards)	Woodview Dr. from N. Main St. (SR 19) to Oakland Ave. (Co Rd 7)	Fort Wayne	.92	STBG	\$2,963,000.00	Group III Program	RW	\$40,000.00	\$0.00		\$40,000.00			
							·			Local Funds	RW	\$0.00	\$10,000.00		\$10,000.00			
Common and a Addison D	OW to CTID.	MACOO	lution	20.40						1			<u> </u>					
Comments:Adding R	41395 /			Added Travel Lanes	Bristol St: from Jeanwood Dr.	Fort Wayne	12	STBG		Local Funds	RW	\$0.00	\$120,000.00	Т	\$120,000.00	Г		
	1801611		0022	7 14404 774707 =41.100	to CR 15	. Git maying				2000.1 0.100		\$6.00	<b>V</b> .20,000.00		\$120,000.00			
										Elkhart-Goshen MPO	RW	\$480,000.00	\$0.00		\$480,000.00			
Performance Measur	re Impacted: I	Pavemen	t Condition							1	1						ļ	
Elkhart	41395 / 1801611	M 23	ST 1022	Added Travel Lanes	Bristol St: from Jeanwood Dr. to CR 15	Fort Wayne	1.2	STBG	\$6,600,000.00	Elkhart-Goshen MPO	RW	\$0.00	\$0.00		(\$480,000.00)	\$480,000.00		
	<u> </u>									Local Funds	RW	\$0.00	\$0.00		(\$120,000.00)	\$120,000.00		
Performance Measur	re Impacted: I	Pavemen	t Condition							1								
Comments:MACOG	20-24TIP Res	_		OW from 2021 to FY 202	22					_								
ndiana Department of Transportation	41560 / 1800039	Init.		Intersect. Improv. W/ Added Turn Lanes	1.03 miles S of US 20 (at CR 18 )	Fort Wayne	.43	STBG		Safety Construction	CN	\$954,660.00	\$238,665.00			\$15,000.00	\$1,178,325.00	
										Safety Consulting	PE	\$144,000.00	\$36,000.00	\$180,000.00				
										Safety ROW	RW	\$40,000.00	\$10,000.00			\$50,000.00		
Performance Measu	re Impacted:	Safety								<u> </u> 								
ndiana Department of Transportation	41562 / 1800057	Init.	SR 19	Replace Superstructure	Over Christiana Creek, 2.43 Miles South of I-90.	Fort Wayne	.3	NHPP		Bridge Construction	CN	\$3,144,252.80	\$786,063.20				\$3,930,316.00	
			<u> </u>		1	_1		I		Bridge ROW	RW	\$20,000.00	\$5,000.00			\$25,000.00		
Performance Measur	re Impacted: I	Bridge Co	ndition							]								
Performance Measur Goshen		Bridge Co		Auxiliary Lanes	from Fairfield to Plymouth Ave	Fort Wayne	.26	STBG	\$1,031,450.00	Local Funds	PE	\$0.00	\$41,260.00	\$41,260.00				

FY 2020-2024 Transportation Improvement Program

Sponsor	DES	Contract	Resolution	Route	Location	Work Type	Fund Type	Phase	Federal	Match	SFY 2020	SFY 2021	SFY 2022	SFY 2023	SFY 2024	Estimated to Complete	Letting Date
MACOG	2001101		Res. 11-21		Partners for Clean Air Program	UPWP	CMAQ	PL	\$ 50,000	\$ 12,500			\$ 62,500			\$ 62,500	2022
MACOG Transit	1700671	_	Res. 20-17		Operating Assistance	Transit Operating	5307		\$ 1,344,526	\$ 1,344,526		\$ 2,689,052				\$ 2,689,052	2021
MACOG Transit	1700672	_	Res. 20-17		Computer Hardware	Transit Communications Eqpt	5307		\$ 30,000	\$ 7,500		\$ 37,500				\$ 37,500	2021
MACOG Transit	1700673	-	Res. 20-17		Computer Software	Transit Communications Eqpt	5307		\$ 43,788	\$ 10,947		\$ 54,735				\$ 54,735	2021
MACOG Transit	1700674	1	Res. 20-17		Vehicle Replacement - Buses (1)	Transit Purchase Vehicles	5307		\$ 395,000	\$ 98,750		\$ 493,750				\$ 493,750	2021
MACOG Transit	1700675	ı	Res. 20-17		Vehicle Replacement - Paratransit (3)	Transit Purchase Vehicles	5307		\$ 150,000	\$ 37,500		\$ 187,500				\$ 187,500	2021
MACOG Transit	2001800		Res. 29-20		Purchase 2 transit vehicles > 35ft	Transit Purchase Vehicles	CARES		\$ 860,000	s -		\$ 860,000				\$ 860,000	2021
MACOG Transit	2001801		Res. 29-20		Purchase 2 transit vehicles < 35ft	Transit Purchase Vehicles	CARES		\$ 120,000	s -		\$ 120,000				\$ 120,000	2021
MACOG Transit	2002315		Res. 34-20		South Bend Urbanized Area	Regional Mobility Management	5310		\$ 265,055	\$ 66,264		\$ 331,319				\$ 331,319	2021
INDOT	1600420	R-40477	Res. 26-19	US 20	US 20, Bridge Over Rowe-Eden Ditch, 1.25 Miles East of SR 13	Bridge Replacement, Other Construction	NHPP	RW	\$ 28,000	\$ 7,000		\$ 20,000	\$ 15,000			\$ 1,507,540	1/13/2022
INDOT	1600420	R-40477	Res. 26-19	US 20	US 20, Bridge Over Rowe-Eden Ditch, 1.25 Miles East of SR 13	Bridge Replacement, Other Construction	NHPP	CN	\$ 1,178,032	\$ 294,508			\$ 1,472,540			\$ 1,507,540	1/13/2022
INDOT	1600421	R-40477	Res. 26-19	US 20	US 20, Bridge Over Little Elkhart River, 1.80 Miles East of SR 13	Bridge Replacement, Other Construction	NHPP	RW	\$ 28,000	\$ 7,000		\$ 20,000	\$ 15,000			\$ 1,507,540	1/13/2022
INDOT	1600421	R-40477	Res. 26-19	US 20	US 20, Bridge Over Little Elkhart River, 1.80 Miles East of SR 13	Bridge Replacement, Other Construction	NHPP	CN	\$ 1,178,032	\$ 294,508			\$ 1,472,540			\$ 1,507,540	1/13/2022
INDOT	1600517	R-39851	Res. 43-19	US 20	US 20, from SR 15 to 4.14 miles E of SR 15 (CR 35)	Auxiliary Lanes, Two-way Left Turn Lanes	NHPP	RW	\$ 4,046,220	\$ 1,011,555	\$ 4,057,775	\$ 1,000,000				\$ 35,508,855	1/12/2022
INDOT	1600517	R-39851	Res. 43-19	US 20	US 20, from SR 15 to 4.14 miles E of SR 15 (CR 35)	Auxiliary Lanes, Two-way Left Turn Lanes	NHPP	CN	\$ 24,360,864	\$ 6,090,216	\$ 350,000	\$ 150,000	\$ 29,951,080			\$ 35,508,855	1/12/2022
INDOT	1600518	R-40477	Res. 26-19	SR 15	SR 15, 5.73 miles N of US 6 (at CR 42 North Junction)	Auxillary Lane Construction	ST STBG	RW	\$ 24,000	\$ 6,000		\$ 20,000	\$ 10,000			\$ 327,008	1/12/2022
INDOT	1600518	R-40477	Res. 26-19	SR 15	SR 15, 5.73 miles N of US 6 (at CR 42 North Junction)	Auxillary Lane Construction	ST STBG	CN	\$ 237,606	\$ 59,402			\$ 297,008			\$ 327,008	1/12/2022
INDOT	1600978	R-41111	Res. 26-19	SR 13	SR 13, From US 33 to SR 4	HMA Overlay Minor Structural	ST STBG	CN	\$ 3,251,997	\$ 812,999		\$ 4,064,996				\$ 4,094,996	1/13/2021
INDOT	1601008	RS-39912	Res. 26-19	SR 19	SR 19, from 5.53 Miles S of US 6 (CR 900N) to 0.49 Miles N of US 6 (Berlin Court Ditch)	HMA Overlay Minor Structural	ST STBG	CN	\$ 3,040,727	\$ 760,182		\$ 3,800,909				\$ 3,800,909	1/13/2021
INDOT	1602099	R-40477	Res. 43-19	SR 119	SR 119, Bridge Over Elkhart River, 0.36 Miles south of SR 15	Bridge Replacement, Other Construction	ST STBG	PE	\$ 10,000	\$ 2,500		\$ 12,500				\$ 2,719,888	1/12/2022
INDOT	1602099	R-40477	Res. 43-19	SR 119	SR 119, Bridge Over Elkhart River, 0.36 Miles south of SR 15	Bridge Replacement, Other Construction	ST STBG	RW	\$ 88,000	\$ 22,000		\$ 15,000	\$ 95,000			\$ 3,057,360	1/12/2022
INDOT	1602099	R-40477	Res. 43-19	SR 119	SR 119, Bridge Over Elkhart River, 0.36 Miles south of SR 15	Bridge Replacement, Other Construction	ST STBG	CN	\$ 2,087,910	\$ 521,978		\$ 12,500	\$ 2,597,388			\$ 3,057,360	1/12/2022
INDOT	1700129	R-40477	Res. 26-19	SR 15	SR 15 at CR 142, 4.64 miles north of US 6	Intersect. Improv. W/ Added Turn Lanes	ST STBG	RW	\$ 16,000	\$ 4,000		\$ 5,000	\$ 15,000			\$ 499,042	1/12/2022
INDOT	1700129	R-40477	Res. 26-19	SR 15	SR 15 at CR 142, 4.64 miles north of US 6	Intersect, Improv, W/ Added Turn Lanes	ST STBG	CN	\$ 383,234	\$ 95,808			\$ 479,042			\$ 499,042	1/12/2022
INDOT	1701372	R-39912	Res. 26-19	US 6	US 6, From 1.79 Miles West of SR 19 to SR 15	HMA Overlay, Preventative	ST STBG	CN	\$ 2,748,662	\$ 687,165		\$ 3,435,827				\$ 3,455,827	1/12/2021
INDOT	1800039	R-41560	Res. 26-19	SR 15	SR 15, 1.03 Miles S. of US 20 (at CR 18)	Intersection Improvement with Added Turn Lanes	ST STBG	RW	\$ 40,000	\$ 10,000			\$ 50,000			\$ 1,423,325	1/19/2023
INDOT	1800039	R-41560	Res. 26-19	SR 15	SR 15, 1.03 Miles S. of US 20 (at CR 18)	Intersection Improvement with Added Turn Lanes	ST STBG	CN	\$ 954,660	\$ 238,665			\$ 15,000	\$ 1,178,325		\$ 1,423,325	1/19/2023
INDOT	1800057	B-41562	Res. 25-18	SR 19	SR 19, Over Christiana Creek, 2.42 Miles S of I-18/90	Replace Superstructure	NHPP	RW	\$ 20,000	\$ 5,000			\$ 25,000			\$ 3,955,316	12/7/2022
INDOT	1800057	B-41562	Res. 25-18	SR 19	SR 19, Over Christiana Creek, 2.42 Miles S of I-18/90	Replace Superstructure	NHPP	CN	\$ 3,144,253	\$ 786,063				\$ 3,930,316		\$ 3,955,316	12/7/2022
INDOT	1800090	R-41578	Res. 26-19	US 20	US 20, from SR 15 to 4.14 Miles E. of ST 15 (CR 35)	Added Travel Lanes	ST STBG	CN	\$ 13,788,558	\$ 3,447,139				\$ 17,235,697		\$ 17,235,697	7/13/2022
INDOT	1800045		Res. 35-20	SR 119	SR 119, 1.35 miles East of SR 19 (CR7)	Intersection Improvement	ST STBG	PE	\$ 336,000	\$ 84,000			\$ 420,000			\$ 2,910,803	2025
INDOT	1800045		Res. 35-20	SR 119	SR 119, 1.35 miles East of SR 19 (CR7)	Intersection Improvement	ST STBG	RW	\$ 80,000	\$ 20,000					\$ 100,000	\$ 2,910,803	2025

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## DES 1800039

## Appendix I

### Additional Studies and Information

### Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated July 2020)

ProjectNumber SubProjectCode	County	Property
1800054 1800054	Elkhart	Oxbow County Park
1800064 1800064	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800074 1800074	Elkhart	Oxbow County Park
1800099 1800099	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800257 1800257A	Elkhart	Elliott Park
1800257 1800257B	Elkhart	Lundquist Bicentennial Park
1800257 1800257C	Elkhart	Pinewood Park
1800283 1800283	Elkhart	High Dive Park
1800310 1800310	Elkhart	McNaughton Park
1800337 1800337	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800339 1800339	Elkhart	Shoup-Parsons Woods Park
1800340 1800340	Elkhart	Reith Park
1800354 1800354	Elkhart	Pierre Moran Park
1800441 1800441	Elkhart	High Dive Park
1800450 1800450	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800470 1800470	Elkhart	Studebaker Park
1800542 1800542	Elkhart	Boot Lake Nature Preserve
1800554 1800554	Elkhart	Cobus Creek County Park
1800628 1800628	Elkhart	Corson Riverwoods County Park
1800631 1800631	Elkhart	South Park

<sup>\*</sup>Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.

### ABBREVIATED ENGINEER'S ASSESSMENT Road Project

Date: September 24, 2019

Route: SR 15
Des. No.: 1800039
County: Elkhart

Federal Oversight: None

### **Location and Project Description**

The project includes improvements to SR 15 at its intersection with CR 18, 1.03 miles south of US 20 (RP 86+26 to RP 86+69). The intersection is located north of the Town of Goshen in Elkhart County. SR 15 is classified as a principal arterial and consists of one 12-foot through lane in each direction with 4-foot shoulders on each side. CR 18 is classified as a minor collector to the west of SR 15 and a local road to the east of SR 15. CR 18 consists of one 10-foot lane in each direction with no shoulders. A project location map is attached at the end of this report.



Figure 1 Intersection of SR 15 and CR 18, facing NB

### **Need for Improvement**

The intersection of SR 15 and CR 18 currently experiences a high rate of rear-end collisions due to vehicles waiting in a queue to make a left-hand turn from SR 15 to CR 18. The purpose of the project is to provide a solution to reduce the crash rate.

### Crash History

Crash data was collected along this segment from January 2016 through December 2018. Crashes over this three-year period are summarized in the following table.

	Cras	h Severity		Crash Type						
Year	Fatal/Incap.	Injury	PDO	Right Angle	Ran Off Road	Rear End	Sideswipe	R/L Turn		
2016	3	1	6	2	2	3	1	2		
2017	0	1	9	1	1	6	0	2		
2018	1	0	6	1	1	2	2	1		
Total	4	2	21	4	4	11	3	5		

A RoadHAT analysis was completed using this information. It resulted in an Index of Crash Frequency (ICF) of 3.72 and an Index of Crash Cost (ICC) of 2.01. These values indicate that this intersection experiences an above-average crash frequency and safety improvements should be evaluated. The RoadHAT report is attached to this document.



### **Proposed Improvement**

The proposed solution is the addition of left turn lanes in each direction on SR 15. Current IDM standards require a 585' left-turn lane in each direction on SR 15. The proposed improvement will likely include the removal of trees and the relocation of utilities.

The intersection is also near meeting warrants for signalization. The proposed improvements, right of way, and utility relocations will be designed such that future signalization can be accommodated without the need to reconstruct or acquire additional property.

### **Prior Studies and Considerations**

Environmental Document Type and Approval Date: Pending Preliminary Field Check Held: Pending

Environmental Permits Required:

Rule 5 Erosion Control Pending
Waters of the U.S. Determination Pending

### **Design Data**

Project Design Criteria: 3R, Non-Freeway Functional Classification: Principal Arterial

Terrain: Level
Design Speed: 50 mph
Posted Speed: 50 mph
Access Control: None
Number of Lanes and Width: 2 @ 12'

Shoulders Width and Type: 4' HMA Shoulders

Maximum Right-of-Way Width: 40' (ex.) Minimum Right-of-Way Width: 0' (ex.)

#### **Traffic Data**

The following traffic data was taken from the INDOT Traffic Count Database. The most recent traffic count was taken in 2018. The traffic data is attached to this document.

	SR 15
AADT (2022)	12,345 VPD
AADT (2042)	14,719 VPD
DHV (2042)	8.61 %
Comm. Veh.	8% AADT
Directional Distribution	55% NB
Growth Rate Used*	1% per year

<sup>\* -</sup> Linear growth rate assumed

### **Description of Right of Way**

Along SR 15 to the south of CR 18, there is 40' of apparent existing right of way on each side of the centerline. To the north, there is 35' of apparent existing right of way on each side of the centerline. Along CR 18, the apparent existing right of way varies from 14' to 52' from the centerline. Based upon the Elkhart County GIS system, the right of way in the southeast quadrant may be the only parcel that has been properly recorded. Although roughly 0.25 acres of permanent new right of way is anticipated for the proposed improvements, reacquisition of assumed right of way will require an additional 1.2 acres. It appears that acquisition will be required from four (4) separate parcels, three of which are residential/agricultural and the fourth is a religious facility in the southwest corner of the intersection.

There are existing overhead utilities, including electric and transmission lines, present on both sides of SR 15 that will likely require relocation because of conflicts between the poles and the proposed construction. There are existing underground utilities, including gas and telecom lines, along both sides of SR 15 that will most likely be impacted by this project. A completed Design Ticket is attached to this report. Future strain pole locations should be noted during utility coordination to avoid conflicts during any future signalization project at the intersection. One (1) tree to the northwest of the intersection along the west side of SR 15 will need to be removed to improve intersection sight distance.

#### **Estimated Costs**

	<u>Y</u>	ear: 2023
Preliminary Engineering:	\$	140,000
Construction:	\$	578,058
Utilities:	\$	20,000
Right-of-Way:	\$	100,000
Total Cost:	\$	838,058

### **Maintenance of Traffic During Construction**

During construction, maintenance of traffic will likely consist of shifting traffic to the shoulders and narrowing lanes. The shoulders will likely require reinforcing with additional HMA to support traffic.

A geotechnical analysis and pavement investigation will be required to determine whether the existing shoulders can support traffic during construction, as well as to determine the appropriate pavement design for the proposed full-depth widening.

### **Environmental Impacts**

There appears to be a wetland near the southernmost project limits, on the east side of SR 15. Once the exact limits of this wetland are delineated, efforts will be taken to minimize impacts. A Categorical Exclusion (CE) will be developed during the design phase of the project. All provisions of the CE will be adhered to. A Red Flag Investigation had been completed for the project area and is attached to this report.

### Changes to Engineer's Report

The Fort Wayne District Technical Services Department shall be consulted if deviation from this document is determined to be necessary during a later phase of project development. The person initiating the change should send a memo detailing the changes including justification for the change and the estimate cost difference to the Fort Wayne District Technical Services Director, System Asset Manager, and Project Manager for concurrence.

Malle	September 24, 2019
Marc Rape, P.E.	Date
Design Engineer	
Sta Suff	10/8/2019
Steve Seculoff	Date
Project Manager	
Randy Post System Asset Manager	Date
Sugar J. Doell	10/8/19
Susan Doell	Date
Scoping Manager	
Attachments:	
Location Map	
Aerial	
Kick-off Meeting Minutes	
RoadHAT Report	
INDOT Traffic Database	
Utility Design Ticket	
Construction Cost Estimate	

Red Flag Investigation

8/16/2019 RoadHatReport

Location	SR 15/CR 18				
3554450	511 15/511 15				
GIS					
Post					
Analyst	OTL				
Date	7/18/2019				
INPUT					
Road Facility Type	Unsignalized Rural Sta	te-Local Intersection			
Major Road AADT (veh/day)		11870			
T-intersection Indicator (1 if present, 0 otherwise)		0			
First Year with Crash Data (yyyy)		2016			
Last Year with Crash Data (уууу)	2018				
Number of Crashes (crash/period)					
Fatal and Incapacitating Injury Crashes	- 1	4			
Non-Incapacitating and Possible Injury Crashes		2			
Property Damage Only Crashes		21			
Route or Road Type	Unsignalized Rural Sta	te-Local Intersection			
Average Crash Costs (\$)					
Fatal and Incapacitating Injury Crashes		459600			
Non-Incapacitating and Possible Injury Crashes		32700			
Property Damage Only Crashes		5000			
Crash Cost Year (yyyy)	TAL AT	2013			
OUTPUT	**				
Expected Crash Frequency (crash/year)					
Fatal and Incapacitating Injury Crashes	- 4 1	0.055			
Non-Incapacitating and Possible Injury Crashes		0.30			
Property Damage Only Crashes		0.94			
All Crashes		1.30			
Index of Crash Frequency		3.72			
Index of Crash Cost		2.01			

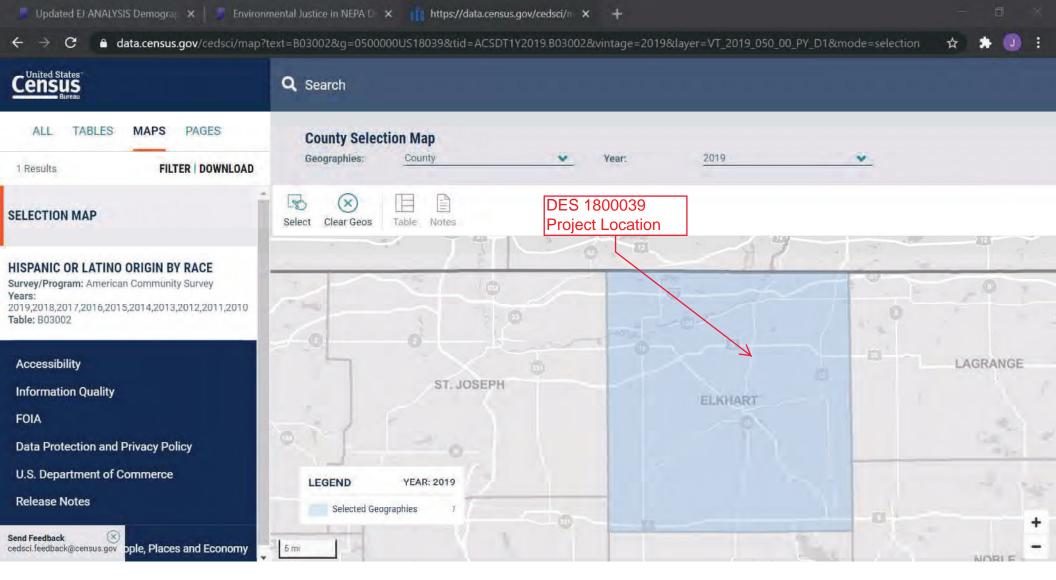
Index of Crash Freque	Index of Crash Frequency and Cost - Form F1				
Location	SR 15/CR 18				
GIS					
Post					
Analyst	это				
Date	7/18/2019				

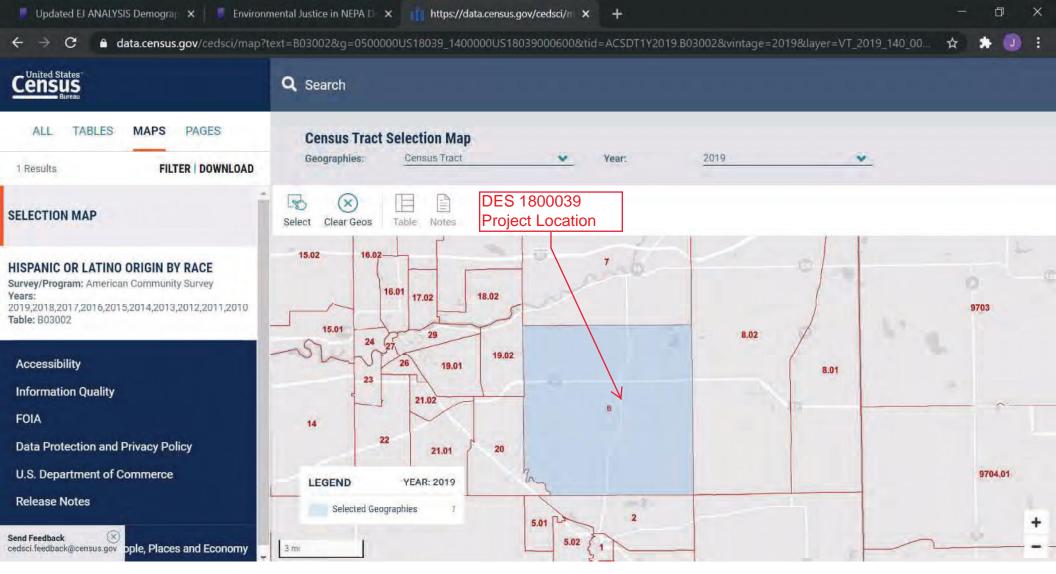
	ion ID	200645						MPO ID		
32,104		SPOT					-	PMS ID		
Or	NHS						1	HPMS	No	
								SATISFIED BACKS	85.015	15
		up U2_SWG					77.27		State R	37
		oup U2_A			•			Route	15	
_	GF Group U2 SWG							Active	Yes	
Class Dis	STATE OF THE PARTY.	02_0114					C	tegory	1,00	
Seas Cls							-	ategory		
WIM	1									
QC Group JUR9SHORT										
Fnct'l Class Other Principal Arterial			(OPA)		N	Milepost				
Locate	ed On	SR 15 100 I	N/O KERCI	HER ROA	AD					
Loc On	Alias	SR 15								
			PR			MP				PT ·
More Deta	all D					-				_
	_	Delta Control								
STATIO	N DAT	A								
irection	1S: 2	WAY NE	G POS	0						
		1	1							
	2)	_								
AADT (		AADT	DUNCA	0 1	06   50		DA.			0
	Year	AADT	DHV-3		% D?		PA (000)		(OP)	Src
-	2018	11,870	1,022		9 55	10,88	7 (92%)	982	(8%)	O-11/1/11
	2017	11,4613			B 63	9,59	3 (84%)	1,867	(16%)	Grown from 2016
-			+		-					
	-				20	J	2 4 C 100 C	Less.	VACE OF	Grown
	2016	11,3593			8 63	9,50	8 (84%)	1,850	(16%)	Grown from 2015
	E S AZ		-		2 75	1 200		THE PARTY	200	from 2015 Grown
	2015	11,3253			8 63	9,48	0 (84%)	1,844	(16%)	from 2015 Grown
	E S AZ		-		2 75	9,48		1,844	200	from 2015 Grown
2<	2015	11,3253	871		8 63	9,48	0 (84%)	1,844	(16%)	from 2015 Grown
<<	2015	11,325 <sup>3</sup> 11,081 >  >>	871		8 63	9,48	0 (84%)	1,844	(16%)	from 2015 Grown
<< Travel D	2015 2014 <	11,325 <sup>3</sup> 11,081 > >>	871 1-5 o	f 11	8 63	9,48	0 (84%) 3 (84%)	1,844	(16%)	from 2015 Grown from 2014
Travel D	2015	11,325 <sup>3</sup> 11,081 >  >>	871	f 11	8 63	9,48	0 (84%) 3 (84%)	1,844	(16%)	from 2015 Grown from 2014
Travel D	2015 2014 <   emand Model Year	11,325 <sup>3</sup> 11,081 >	871 1-5 o	f 11	8 63	9,48 9,27 MD PPV	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%)	from 2015 Grown from 2014
Travel D	2015 2014 <   emand Model Year	11,325 <sup>3</sup> 11,081 >	871 1-5 o	f 11	8 63	9,48 9,27 MD PPV	0 (84%) 3 (84%)	1,844 1,804 PM PPV	(16%) (16%)	from 2015 Grown from 2014
Travel D	2015 2014 <   Wodel Year E COU	11,325 <sup>3</sup> 11,081 >	871 1-5 o	f 11	8 63 8 63	9,48 9,27 MD PPV VOLUM Year	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) NT PH	from 2015 Grown from 2014
Travel D	2015 2014 <   Demand Wodel Year E COU	11,325 <sup>3</sup> 11,081 >	871 1-5 0 AM PH	f 11	B 63 B 63 PV MD PHV	9,48 9,27 MD PPV VOLUM Year 2018	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) NT Phual Grov 4%	from 2015 Grown from 2014
Travel D	2015 2014 2014 2014 2014 2014 2014 2015 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	11,325 <sup>3</sup> 11,081 >   >> d Model	871 1-5 o	f 11  V AM PF  Int  15	8 63 8 63 PV MD PHV Total 12,481	9,48 9,27 MD PPV VOLUM Year 2018 2017	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) / NT Ph	from 2015 Grown from 2014
Travel D	2015 2014  Cemano Wodel Year  E COU	11,325 <sup>3</sup> 11,081 >   >>  d Model	871 1-5 0 AM PH	f 11  V AM PF  Int   15   15   15	8 63 8 63 PV MD PHV Total 12,481 11,837	9,48 9,27 MD PPV VOLUM Year 2018 2017 2016	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) / NT PH ual Grov 4% 1% 0%	from 2015 Grown from 2014
Travel D	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >	871 1-5 0 AM PHV	f 11  V AM PP  Int 15 15 15 15	8 63 8 63 PV MD PHV Total 12,481 11,837 11,773	MD PPV  VOLUM Year 2018 2017 2016 2015	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) / NT PF ual Grov 4% 1% 0% 2%	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	B 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635	9,48 9,27 MD PPV VOLUM Year 2018 2017 2016 2015 2014	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (10%) (10%) (10%) (10%) (10%) (10%) (10%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	B 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 MD PPV VOLUM Year 2018 2017 2016 2015 2014 2013	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (10%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 WD PPV VOLUM Year 2018 2017 2016 2015 2014 2013 2012	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (16%) (10%) (10%) (10%) (10%) (10%) (16%) (10%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 WOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (16%) (10%) (10%) (10%) (10%) (16%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 WOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (16%) (10%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 WOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV	(16%) (16%) (16%) (16%) (16%) (10%) (10%) (10%) (10%) (16%)	from 2015 Grown from 2014
Travel D	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >>  d Model   Model   AADT  Date	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 9,27 VOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996	0 (84%) 6 (84%) PM PHV	1,844 1,804 PM PPV Annu	(16%) (16%) (16%) (16%) (16%) (10%)	from 2015 Grown from 2014
VOLUMI	2015 2014  Commonwell  Coulomb Woodel  Year  Woodel  W	11,325 <sup>3</sup> 11,081 >   >> d Model Model AADT  Date led 3/21/201 ue 8/19/201 on 8/18/201 led 10/12/20 ue 10/11/201	871 1-5 0 AM PHV	f 11  V AM PF  Int   15   15   15   60   60   60	8 63 B 63 PV MD PHV Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 9,27 VOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996	D (84%) 3 (84%) PM PHV	1,844 1,804 PM PPV Annu	(16%) (16%) (16%) (16%) (16%) (10%)	from 2015 Grown from 2014
VOLUMI SPEED	2015 2014  Image: Property of the control of the co	11,325 <sup>3</sup> 11,081 >   >> d Model   Model   AADT  Date   ded 3/21/201   ue 8/19/201   on 8/18/201   ded 10/12/20   ue 10/11/201   ded 10/12/20   ded 10/12/20   ded 10/12/20   ded 10/11/201   ded 10/12/20   ded 10/11/201   de	871 1-5 0 AM PHV 8 4 4 11		B 63 B 63 PV MD PHV  Total 12,481 11,837 11,773 12,635 12,633	9,48 9,27 9,27 VOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996	PM PHV E TREND	1,844 1,804 PM PPV Annu	(16%) (16%) (16%) (16%) (16%) 4% 1% 0% 2% -5% -1% 0% -2% 5% -2%	from 2015 Grown from 2014
VOLUMI SPEED	2015 2014  Image: Property of the control of the co	11,325 <sup>3</sup> 11,081  >   >>  d Model   Model   AADT    NT	871 1-5 0 AM PH		B 63	9,48 9,27 MD PPV VOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996 CLASS	PM PHV E TREND  FICATIO  Date	1,844 1,804 PM PPV Annu	(16%) (16%) (16%)  NT Ph  Jal Grov  4%  1%  0%  -5%  -1%  0%  -2%  5%  -2%	from 2015 Grown from 2014  IV NT PPV
VOLUMI VOLUMI SPEED	2015 2014  Image: Property of the control of the co	11,325 <sup>3</sup> 11,081 >	871 1-5 0 AM PHV 8 4 4 11 11		B 63	9,48 9,27 MD PPV VOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996 CLASSI	PM PHV  E TRENI  FICATIO  Date  Wed 3/21	1,844 1,804 PM PPV Annu N 2018 2014	(16%) (16%) (16%)  NT Ph  Jal Grov  4%  1%  0%  -5%  -1%  0%  -2%  5%  -2%  Int  15	from 2015 Grown from 2014  IV NT PPV  Vth  Total 12,481
VOLUMI SPEED	2015 2014  2014  2016  Pernance  Woodel  Year  W  To  M  We  Tu  Dat  Tue 8/19  Mon 8/18	11,325 <sup>3</sup> 11,081 >	871 1-5 0 AM PHV 8 4 4 11 11 11 11		B 63	9,48 9,27 WOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996	PM PHV  E TRENI  FICATIO  Date  Wed 3/21  Tue 8/19	1,844 1,804 PM PPV Annu N 2,2018 2014 /2014	(16%) (16%) (16%)  NT Ph  Jal Grov  4%  1%  0%  -5%  -1%  0%  -2%  5%  -2%  Int  15  15	from 2015 Grown from 2014  NT PPV  vth  Total 12,481 11,837
VOLUMI SPEED	2015 2014  2014  2014  2016  2017  2017  2018  2	11,325 <sup>3</sup> 11,081 >	871 1-5 0 AM PHV 8 4 4 4 11 11 11 11 11 11		B 63	9,48 9,27 WOLUM Year 2018 2017 2016 2015 2014 2013 2012 2011 2001 1996	FICATIO Date Wed 3/21 Tue 8/19 Mon 8/18	1,844 1,804 1,804 PM PPV Annu N 2,2018 (2014 (2014 2/2011	(16%) (16%) (16%)  NT PF  Jal Grov 4% 1% 0% 2% -5% -1% 0% -2% 5% -2%  Int 15 15	from 2015 Grown from 2014 AV NT PPV vth  Total 12,481 11,837 11,773

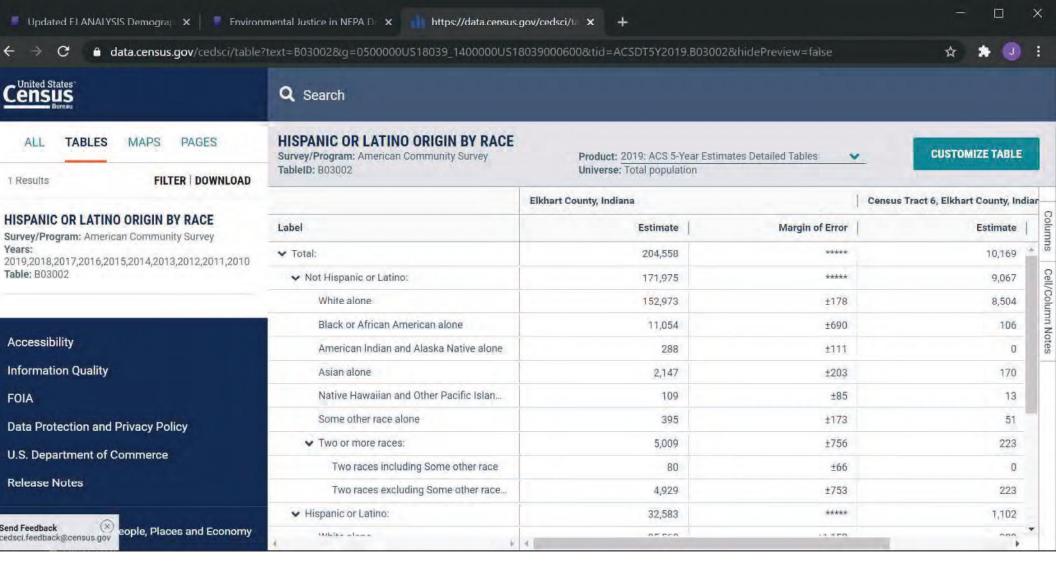
Route: SR 15/CR 18 Loc. ID: 200645

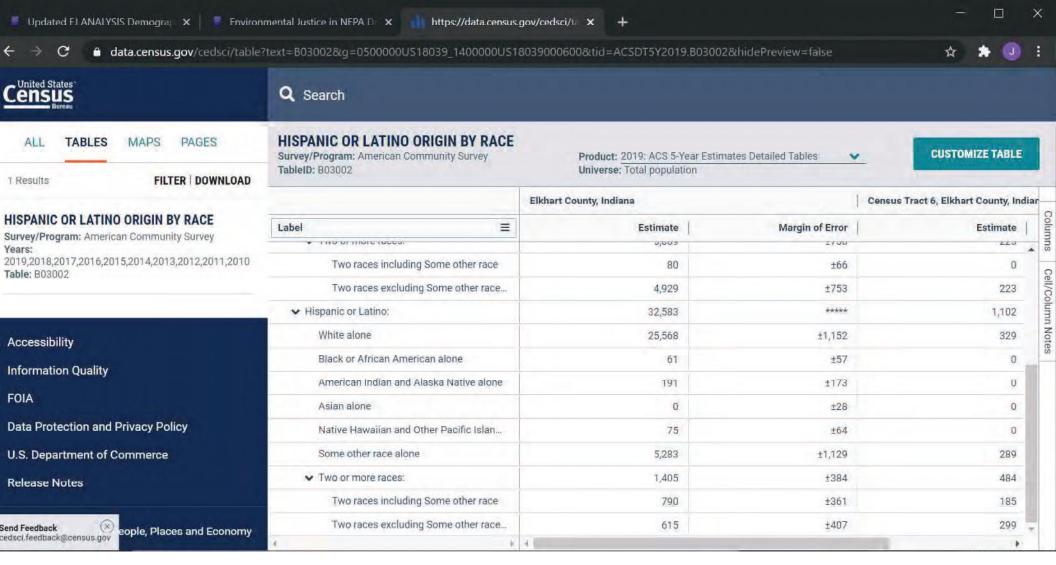
Growth Rate: 1%

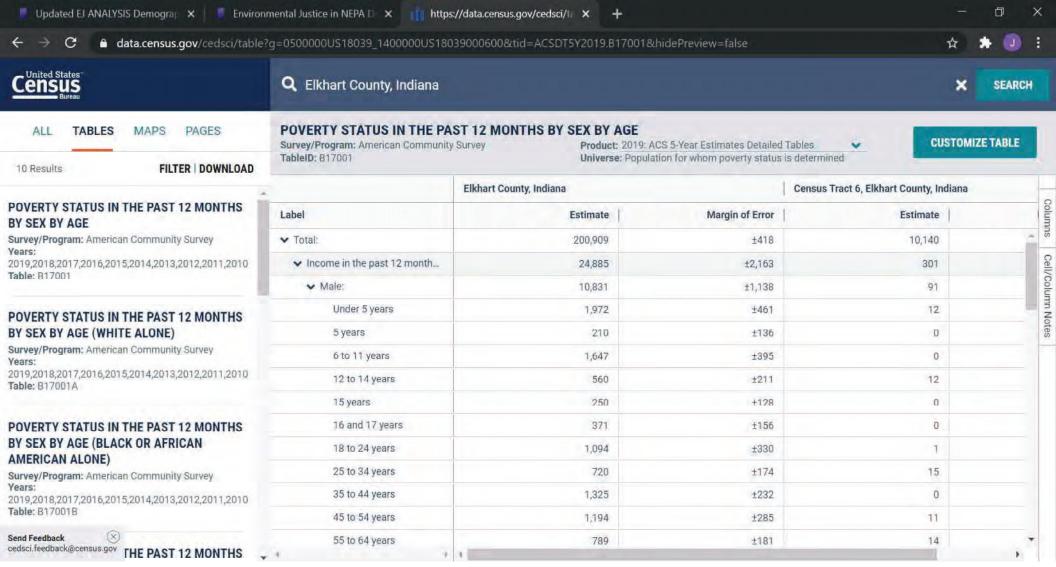
Year	AADT	DHV
2018	11870	1022
2019	11989	1032
2020	12107	1042
2021	12226	1053
2022	12345	1063
2023	12464	1073
2024	12582	1083
2025	12701	1094
2026	12820	1104
2027	12938	1114
2028	13057	1124
2029	13176	1134
2030	13294	1145
2031	13413	1155
2032	13532	1165
2033	13651	1175
2034	13769	1186
2035	13888	1196
2036	14007	1206
2037	14125	1216
2038	14244	1226
2039	14363	1237
2040	14481	1247
2041	14600	1257
2042	14719	1267

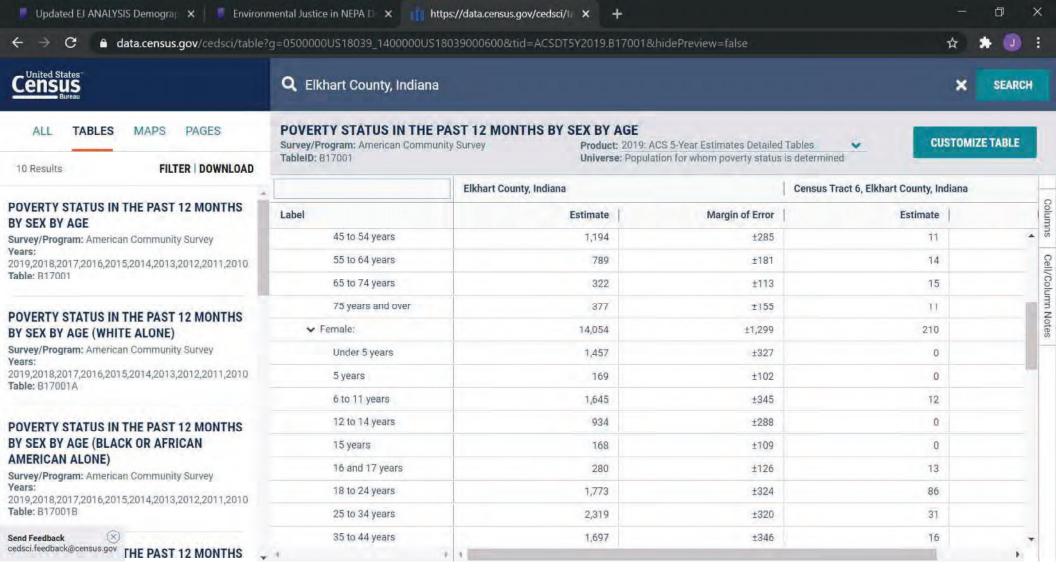


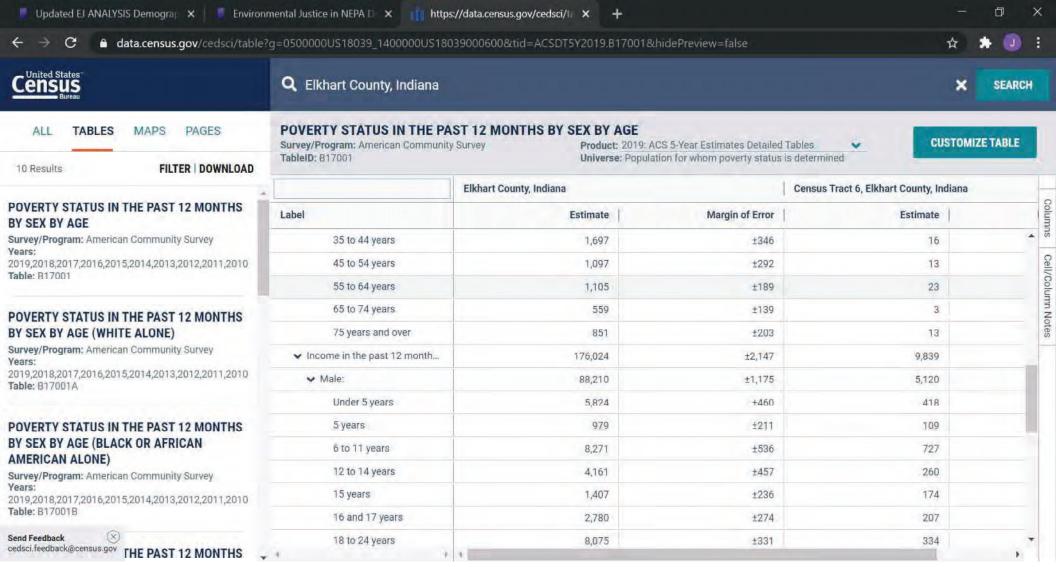


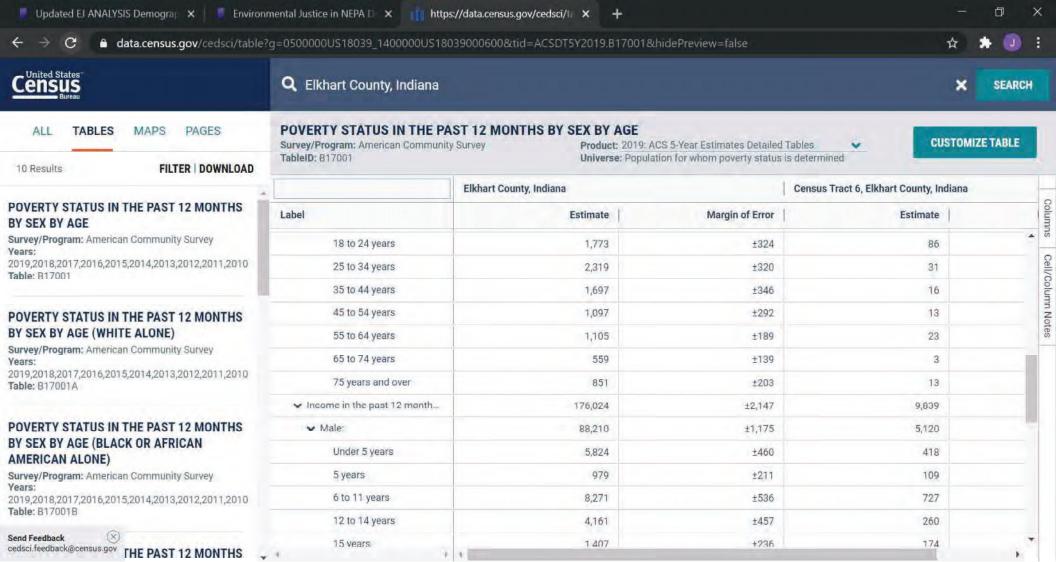


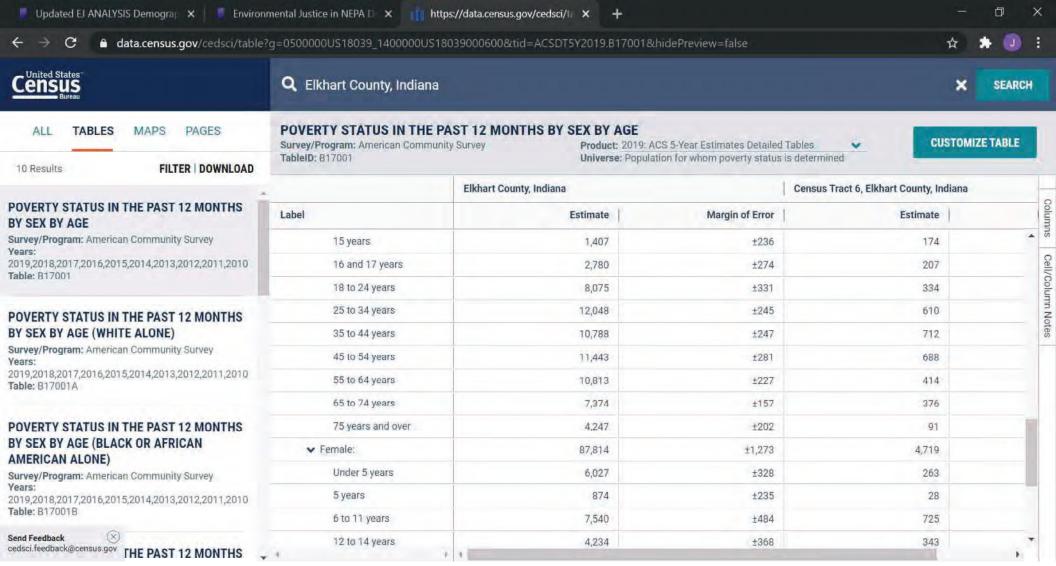














6,131

75 years and over

Send Feedback

72

±240

		coc	AC	
		Elkhart County, Indiana	Census Tract 6, Elkhart County, Indiana	
	LOW-INCOME			
B 17001001	Population for whom poverty status is determined: Total	200,909	10,140	
B 17001002	Population for whom poverty status is determined:Income in past 12 months below poverty	24,885	301	
	Percent Low-Income	12.4%	3.0%	
	125 Percent of COC	15.5%	AC<125% COC	
	Potential Low-Income EJ Impact?		No	
	MINORITY			
B 03002001	Total population: Total	204,558	10,169	
B 03002002	Total population: Not Hispanic or Latino	171,975	9,067	
B 03002003	Total population: Not Hispanic or Latino; White alone	152,973	8,504	
B 03002004	Total population: Not Hispanic or Latino; Black or African American alone	11,054	106	
B 03002005	Total population: Not Hispanic or Latino; American Indian and Alaska Native alone	288	0	
B 03002006	Total population: Not Hispanic or Latino; Asian alone	2,147	170	
B 03002007	Total population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	109	13	
B 03002008	Total population: Not Hispanic or Latino; Some other race alone	395	51	
B 03002009	Total population: Not Hispanic or Latino; Two or more races	5,009	223	
B 03002010	Total population: Hispanic or Latino	32,583	1,102	
B 03002011	Total population: Hispanic or Latino; White alone	25,568	329	
B 03002012	Total population: Hispanic or Latino; Black or African American alone	61	0	
B 03002013	Total population: Hispanic or Latino; American Indian and Alaska Native alone	191	0	
B 03002014	Total population: Hispanic or Latino; Asian alone	0	0	
B 03002015	Total population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	75	0	
B 03002016	Total population: Hispanic or Latino; Some other race alone	5,283	289	
B 03002017	Total population: Hispanic or Latino; Two or more races	1,405	484	
	Number Non-White/Minority (P007001-P007003)	51,585	1.665	
	Percent Non-White/Minority	25.2%	16.4%	
	125 Percent of COC	31.5%	AC<125% COC	
	Potential Minority EJ Impact?		No	