

WELL LOG: MW-2

Handex of Michigan Permit #: Drill Date: November 20, 1996 Use: Monitoring Well Owner Loc #: N/A Location: Livernols & Hazelton Street Handex Loc #: 108562-01 Owner: Sun Company, Inc. BORING - Depth: 7 ft. Owner Address: 5733 Butler Street, Plttsburgh, PA Diameter: 6 In. CASING - Length: 2 ft. Drilling Method: Hand Auger Diameter: 2 In. Sampling Method: Discrete SCREEN - Length: 5 ft. Diameter: 2 in. Static Water Level: N/A WELL - Depth: 7 ft. Depth Graphic Log Depth (ft.) Ė OVA ppm Well Diagram Sample Blows/6 Sample [Geologic Description 2" Sched, 40 PVC Sand: Silty, Some Clay, Brown, Moist. SB-2 2-3" Sched, 40 PVC (0.010 slat) Clay: Silty, Brown, Very Moist. SB-2 B-7' Bottom of Boring at 7' 10-Geologist: Randy Glass Driller: Mark Riggle



Handex of Michigan

WELL LOG: MW-3

Owner Livernois & Hazelton Street Owner Loc #: M/A Diver: Sun Company, Inc. Owner Address: 5733 Butler Street, Pittsburgh, PA BORING - Depth: 8 ft. Diameter: 8 in. CASING - Length: 1 ft. Diameter: 2 in. Diameter: 2 in. Borling Method: Discrete SCREEN - Length: 5 ft. Diameter: 2 in. Botton of Boring at d' Stit: Clayey, Very Fine Send, Brown, Motst. Send: Medium to Coarse, Brown, Wet. Send: Medium to Coarse, Brown, Wet. Botton of Boring at d'	Decation: Livernois & Hazelton Street Owner: Sun Company, Inc. Owner Address: 5733 Butler Street, Pittsburgh, PA BORING - Depth: 6 ft. Diameter: 6 in. Drilling Method: Hand Auger Screen - Length: 1 ft. Static Water Level: N/A WELL - Depth: 7 ft. Sanding of Boring of Boring of Boring at 6'. Silt: Claysy, Vary Fine Sand, Brown, Molst. Sand: Medium to Coarse, Brown, Met. Sand: Medium to Coarse, Brown, Met. Botton of Boring at 6'.		x of Mic	higan		Detti	Date: Mayo	Thes 20 1006	line	. Manifesina hall
Owner: Sun Company, Inc. Diviner Address: 5733 Butler Street, Pittsburgh, PA BORING - Depth: 6 ft. Diameter: 6 in. Diameter: 2 in. Well Diagram Seclogic Description Sel: Clayey, Very Fine Sand, Brown, Moist. Send: Medium to Coarse, Brown, Wet. Send: Medium to Coarse, Brown, Wet. Send: Medium to Coarse, Brown, Wet.	Owner: Sun Company, Inc. Owner Address: 5733 Butler Street, Pittsburgh, PA BORING - Depth: 6 ft. Dialmeter: 6 in. Drilling Method: Hand Auger CASING - Length: 1 ft. Diameter: 2 in. Sampling Method: Discrete SCREEN - Length: 5 ft. Diameter: 2 in. Static Water Level: N/A WELL - Depth: 7 ft. Well Diagram Sill: Claysy, Very Fine Sand, Brown, Molst. Sand: Medium to Coarse, Brown, Met. Sand: Medium to Coarse, Brown, Met.		liver	in El Horali	on Cir		Date. Nove	iliber 20, 1990		
Downer Address: 5733 Butler Street, Pittsburgh, PA BORING - Depth: 6 ft. Diameter: 8 in. Drilling Method: Hand Auger CASING - Length: 1 ft. Diameter: 2 in. Dampling Method: Discrete SCREEN - Length: 5 ft. Diameter: 2 in. Diameter: 2 in	Owner Address: 5733 Butler Street, Pittsburgh, PA Drilling Method: Hand Auger CASING - Length: 1 ft. Diameter: 2 in. Sampling Method: Discrete SCREEN - Length: 5 ft. Static Water Level: N/A WELL - Depth: 7 ft. Selection of Border of Borde				טוו אנוני	361				
CASING - Length: 1ft. Diameter: 2 In. Sampling Method: Discrete Sampling Method: Discrete Static Water Level: N/A WELL - Depth: 7 ft. Well Diagram Sit: Clayey, Very Fine Sand, Brown, Moist. Sand: Hediun to Coarse, Brown, Met. Send: Mediun to Coarse, Brown, Met.	Drilling Method: Hand Auger Sampling Method: Discrete Sampling Method: Discrete Static Water Level: N/A Static Water Level: N/A Sittic Clayer, Very Fine Sand, Brown, Noist. Sittic Clayer, Very Fine Sand, Brown, Noist. Sittic Clayer, Very Fine Sand, Brown, Met. Sand: Medium to Coarse, Brown, Met.				CAron	0/44	burgh DI	PORTNE - Denti		
Schelling Method: Discrete Static Water Level: N/A WELL - Depth: 7 ft. Well Diagram Sampling Method: Discrete Static Water Level: N/A WELL - Depth: 7 ft. Well Diagram Salt: Clayary, Very Fine Sand, Brown, Molst. Salt: Clayary, Very Fine Sand, Brown, Met. Sand: Hedium to Coarse, Brown, Met. Sand: Hedium to Coarse, Brown, Met. Sand: Hedium to Coarse, Brown, Met.	Sampling Method: Discrete Static Water Level: N/A Tity of a decision of Boring at 6' Series - Length: 5 ft. Diameter: 2 in. Well Diagram Well Diagram Selton of Boring at 6' Botton of Boring at 6' Botton of Boring at 6' Botton of Boring at 6'				Street	, ritts	burgn, PA			
Static Mater Level: N/A WELL - Depth: 7 ft. Well Diagram Well Diagram Sit: Claysy, Very Fine Sand, Brown, Motst. Sand: Medium to Coarse, Brown, Met. Sand: Medium to Coarse, Brown, Met. Sand: Medium to Coarse, Brown, Met. Battom of Boring at 6' Battom of Boring at 6'	Static Water Level: W/A CT: 40 and 4									
Till Hidden and Baring at 8' SB-3 5-8' Batton of Baring at 8'	Geologic Description Well Diagram Well Diagram Well Diagram Sit: Clayary, Very Fine Send, Brown, Molst. Sand: Medium to Coarse, Brown, Wet. Sand: Medium to Coarse, Brown, Wet. Sand: Medium to Coarse, Brown, Wet.									
SB-3 5-8'	SB-3 S-8' SB-3 S-8' SB-3 SB-3 S-8' SB-3 SB-3 SB-3 SB-3 SB-3 SB-3 SB-3 SB-3	Static water		II. N/A				WELL - Depti	i. / //.	
Sand: Medium to Coarse, Brown, Met. Battom of Baring at 6'	Sand: Medium to Coarse, Brown, Wet. Sand: Medium to Coarse, Brown, Wet. SB-3 5-8' Bottom of Boring at 6'	Depth (ft.) Sample ID	Sample Dept	Blows/6 in.	OVA ppm	Graphic Log	Ge	eologic Description		Well Diagram
		5- SB-3 5-8					Sand: Medium	to Coarse, Brown, Wet.	Moist.	2" Sched. 40 PVC (0.010 s
	Geologist: Randy Glass Driller: Mark Riggle	דטו								70
	Driller: Mark Higgle	ioningi-ti C		Class				Dellos Mastra		



LOG OF BORING

IT-SB-101

PRO	DECTN	AME:	Sunoco Pipelin	6	I	DATE:		6/12/00		
PRO	JECT N	IMBER:	103182/05000	000	I	EPTH TO WA	TER: NA			
LOC	CATION:		Livernois and I	Hazelton	1	OTAL DEPTE	E 161	Feet		
	GED BY		FAB		у	ETHOD:	Geo	pprobe		
DRI	LLING C	ONTRACTOR	TerraProbe		I	RILLER:	John	John Migrate		
DEPTH	SAMPLE	SAMPLE INTERVAL feet	RECOVERY (%)	GEOLOGIC DESCRIPTION	SOIL CLASS	PID READINGS ppm	EQUIPMENT INSTALLED	REMARKS		
-	S-1	0-4	100	0'-4' FILL material, Brown, Clay/Sand/Rock mixture, dry, med. stiff, no odors or staining		2.1		solid 1" PVC Riser		
						2.0	H	.010 Slot Screen		
5	S-2	4-8	100	4'-7' SAND, fine grained, poorly sorted, saturated, trace pebbles, no odor or staining.		2.5		4		
						6.3		Sample collected @ 7 BGS Groundwater sampled collected from well		
10	S-3	8-12	100	7-16' CLAY, brown, med stiff, wet at interface, trace sand and pebbles, no odor or staining		1.8				
						2.0				
	S-4	12-16	30			1.2				
15						1.2		Boring Terminated at 16' BGS		
								PHOTOVAC 2020		



LOG OF BORING

IT-SB-102

22404		ugn	<i>OULP</i> onia, MI 48150	LOG OF BORING	<u>11</u>	-SB-102		PAGE 1 of 1
_	JECT NA		Sunoco Pipelin		1	OATE:		6/12/00
PRO	BCT NU	MBER:	103182/050000	000	r	EPTH TO WA	TER: NA	
LOC	ATION:		Livernois and I		_	OTAL DEPTH		
LOG	GED BY		FAB		N	ÆTHOD:	Geo	prohe
DRI	LINGC	ONTRACTOR	TerraProbe		I	RILER	John	Migrate
рартн feet	SAMPLE	SAMPLE INTERVAL feet	RECOVERY (%)	GEOLOGIC DESCRIPTION	SOIL CLASS	PID READINGS ppm	EQUIPMENT INSTALLED	REMARKS
	S-I	0-4	100	0'-4' FILL material, Brown, Clay/Sand/Rock mixture, dry, med. stiff, no odors or staining		1.4		solid I" PVC Riser
<u>5</u>			*	4'-7' SAND, fine grained, poorly		2.3	F	.010 Siot Screen Sample collected @ 5'
	S-2	4-8	100	sorted, saturated, trace pebbles, no odor or staining.		13.0		BGS Groundwater sampled collected from well
						1.0		
10	S-3	8-12	100	7-12' CLAY, brown, med stiff, wet at interface, trace sand and pebbles, no odor or staining		1.2		
						1.1		Boring Terminated at 12' BGS
								PID results from PHOTVAC 2020
5								-
		_						



LOG OF BORING IT-SB-103

33101 Schoolcraft Rd Livonia, MI 48150	33101 Schooldraft Rd Livonia,	MI 48150
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PRO	JECT NA	MB:	Sunoco Pipelin	0	I	DATE:		6/12/00
PRO	JECT NU	MBER:	103182/050000	000	I	EPTH TO WA	TER: NA	
49900000	ATION:		Livernois and I	Fazelton		OTAL DEPTE		100
	GED BY:		FAB		-	IETHOD:		probe
DRI	LLING CO	ONTRACTOR	TerraProbe		I	RILLER:	John	Migrate
DEPTH	SAMPLE	SAMPLE INTERVAL fcci	RECOVERY (%)	GEOLOGIC DESCRIPTION	SOIL CLASS	PID READINGS ppm	EQUIPMENT INSTALLED	REMARKS
	S-1	0-4	100	0'-4' FILL material, Brown, Clay/Sand/Rock mixture, dry, med. stiff, no odors or staining		0.8		solid 1" PVC Riser
						0.7	目	.010 Slot Screen
5	S-2	4-8	100	4'-7' SAND, fine grained, poorly sorted, saturated, trace pebbles, no odor or staining.		1.2		Sample collected @ 5' BGS Groundwater sampled collected from well
		*				0.2		
10	S-3	8-12	100	7'-12' CLAY, brown, med stiff, wet at interface, trace sand and pebbles, no odor or staining		0.0		
						0.0		Boring Terminated at 12' BGS
								PID results from PHOTOVAC 2020
5								



LOG OF BORING: $\underline{MW-2R}$

г	armington mil	15, 1411	4000		- 1							4
		Proj	ect Na	ame:	Roche	ster Hills				ompleted:	472272004	1
			Loca	tion:	Roche	ster Hills, Michigan		Casing	Diame	er (inch):	1	1
		L	ogged	By:	T. Tac	batt			Total I	Depth (ft):	12	2
D	rilling/Sam	plins	g Met	hod:		obe/4.25 Hollow Stem Auger		Top-of	-Casing	Elev (ft):		
						probe/Steve Bischoff		Grou	nd Elev	ation (ft):		1
	Dimen Bin	6	Comp		Terra	probe/Steve Bischoff		Boring	Diame	er (inch):	f	6
	,	CON	MEX	ITC.	HA= F	and Auger	Initia	_		r (ft b.s.):	-	1
				_		AMIC AME	-			, ,		٦
DEPTH	SAMPLE ID	Recovery (ft)	Moisture Conten	Blow Counts	PID READINGS (ppmv)	GEOLOGIC DESCRIPTION	SOIL CLASS	Graphic Log: Lithology		VELL TRUCTION	REMARKS	
0												
-		НА	М		0	Medium brown, fine sand and silt					-	-
-						**						
_	***				0					_	-	-
							-					
-	ai iadi jirat	-		-								
_5					0	Medium brown/grey, soft, medium plasticity, silty clay					_	-
		4	S									
-											-	-
					0						-	
											-	
-		-				Coarse sand and fine gravel					-	-
					0	Coarse saint and thie graver					_	-
-										4 2		
10		4					4 1				_	-
			М		0	medium brown, low plasticity, stiff, silty clay						
-			101			inediani storia, ton pinateris, emi, emi,					-	-
_											-	-
						EOB 12'						
-												-
												_
											- concrete	
15												-
									1		- sand	_
-											- bentonite	-
											- riser	
_												
-											- screen	-
20											- cave in	



LOG OF BORING: MW-4

		Proj	ect Na	ime:	Daaba	ster Hills			Date Completed:	4/22/2004
		,	Locat	tion:	Roche	ster Hills, Michigan		Casing	Diameter (inch):	<u>1</u>
		L	ogged	Bv:	T. Tac	ster Hills, Michigan			Total Depth (ft):	8
D	rilling/Sam	nlin	r Met	hod:	T. Tac	ckett		Top-of-	Casing Elev (ft):	2
ים	Deillor/Deill	lina	Comp	onu:	Geopr	obe/4.25 Hollow Stem Auger			nd Elevation (ft):	
,	Drillen/Drill	ing	Comp	any.	Terra	probe/Steve Bischoff			Diameter (inch):	
	- 3				**. *		Taitio		to Water (ft b.s.):	<u>6</u>
		COM	IMEN	ITS:		Hand Auger	-		to water (it b.s.).	3
DEPTH	SAMPLE ID	Recovery (ft)	Moisture Content	Blow Counts	PID READINGS (ppmv)	GEOLOGIC DESCRIPTION	SOIL CLASS	Graphic Log: Lithology	WELL CONSTRUCTION	REMARKS
0		НА	М		0	Medium brown, loose, fine sand	SM			
-					5					-
_5		4	S		133	Medium grey, medium sand	SM	14		- T
_					96.1				SUCCESSION OF THE PROPERTY OF	
			M			Medium grey/brown, stiff, low plasticity, silty clay	CL			
- -						EOB 8'	+			_
						LOD				
-										
10										_
-										
-										
_										_
							-			
-										-
15										- concrete
-										- sand _
-										- bentonite _
_										- riser -
_										- screen _
20										- cave in



27280 Haggerty Rd. Farmington Hills, MI 48331

LOG OF BORING: $\underline{MW-5}$

		Proi	ect Na	me.		ster Hills			Date Completed:	4/22/2004
		110)	Loca	tion:				Casing	Diameter (inch):	1
					Trocare	ster Hills, Michigan			Total Depth (ft):	8
_	.:11:/0		~ Mat	bod.	T. Tac			Top-of-	Casing Elev (ft):	=
	Drilling/Sam				Geopi	obe/4.25 Hollow Stem Auger			nd Elevation (ft):	
	Driller/Dril	ling	Comp	any:	Terrag	probe/Steve Bischoff			Diameter (inch):	
							Tuitin			6
	(COM	1MEN	ITS:	HA= H	Iand Auger	-		to Water (ft b.s.):	3
Беет	SAMPLE ID	Recovery (ft)	Moisture Content	Blow Counts	PID READINGS (ppmv)	GEOLOGIC DESCRIPTION	SOIL CLASS	Graphic Log: Lithology	WELL CONSTRUCTION	REMARKS
_0		НА	М		0	Medium brown fine, loose, fine sand with some gravel	SM			-
			W		0					-
_ <u>5</u> _		4	S		0	Medium brown, very loose, fine sand and silt	SM			-
					0					
-			M	1		Medium brown/grey, stiff, low plasticity, silty clay	CL			
_							-			-
						EOB 8'				
-										17
10										
-										
-										-
<u>15</u>										- concrete
	4									- sand
										- bentonite _
								7		- riser _
										- screen
20										- cave in



27280 Haggerty Rd. Farmington Hills, MI 48331

LOG OF BORING: MW-6

		Proj	ect Na	ame:	Poche	ster Hills			Date Completed:	4/22/2004
			Loca	tion:	Docho	ster Hills, Michigan		Casing	Diameter (inch):	1
		L	ogged	Bv:	T. Tac	ster rins, wichgan			Total Depth (ft):	8
т	Orilling/Sam	nlin	o Met	hod:	1. 1ac	obe/4.25 Hollow Stem Auger		Top-of-	Casing Elev (ft):	_
	Driller/Drill	ina	Comp	anu:	Geopr	obe/4.25 Hollow Stem Auger			nd Elevation (ft):	= 21
	DillenDill	ing	Comp	arry.	Terra	probe/Steve Bischoff			Diameter (inch):	
	(COM	MEN	ITS:	HA= I	Hand Auger	Initia		to Water (ft b.s.):	<u>6</u> 3.5
			**	_			SS	;i _		
DEPTH	SAMPLE ID	Recovery (ft)	Moisture Content	Blow Counts	PID READINGS (ppmv)	GEOLOGIC DESCRIPTION	SOIL CLASS	Graphic Log: Lithology	WELL CONSTRUCTION	REMARKS
<u>0</u> - -		НА	М		0	Medium brown fine, loose, fine sand and silt	SM			_
-					0					
<u>5</u>		4	w		0	Medium brown/grey, soft, medium plasticity silty clay with sand	CL			
-					0	Medium brown, medium dense, sandy wilt with clay				
-				-		EOB 8'				,
10										_
										- concrete
-										- sand
-										- bentonite
-										- riser
-										- screen
20		1		1					1	

SECOR INTERNATIONAL INCORPORATED





APPENDIX B HISTORICAL SOIL AND GROUNDWATER TABLES

Appendix B

Table 1 Historical Soil Analytical Results - BTEX and TMBs Sunoco Inc.

Livernois and Hazelton Roads Pipeline Project Rochester Hills, Michigan

Sample	Sampling Date	Extraction Date	Analysis Date	Sample Depth eet below surfac	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5 - TMB (ug/kg)
Groundwater	Surface Wat	er Interface P	rotection C	riteria	4,000	2,800	360	700	570	1,100
Generic Resi	dential Volita	lization to Inc	ioor Air Crit	eria	1,600	250,000	140,000	150,000	110,000	94,000
Generic Resi	dential Direct	t Contact Crit	eria		180,000	250,000	140,000	150,000	110,000	94,000
Generic Resi	dential Groun	ndwater Cont	act Protection	on Criteria	220,000	250,000	140,000	150,000	110,000	94,000
Generic Resi	dential Ambi	ent Air Inhala	tion Criteria		13,000	2,800,000	720,000	46,000,000	21,000,000	16,000,000
SB-B	NA	NA	NA	4'-6'	ND	ND	ND	ND	NA	NA
	NA	NA	NA	6'-8'	ND	ND	ND	ND	NA	NA
SB-C	NA	NA	NA	6'-8'	ND	11	180	52	NA	NA
SB-E	NA	NA	NA	8'-10'	ND	ND	ND	ND	NA	NA
SB-I	NA	NA	NA	4'-6'	ND	ND	ND	ND	NA	NA
SB-K	09/27/94	10/06/94	10/06/94	4'-6'	ND	ND	ND	ND	NA	NA
SB-L	09/27/94	10/06/94	10/06/94	4'-6'	ND	ND	ND	ND	NA	NA
SB-M	09/27/94	10/06/94	10/06/94	4'-6'	ND	ND	ND	ND	NA	NA
SB-N	09/27/94	09/29/94	09/29/94	6'-8'	ND	ND	ND	ND	NA	NA
SB-O	09/27/94	09/29/94	09/29/94	0'-2'	ND	ND	ND	ND	NA	NA
SB-P	09/27/94	09/29/94	09/29/94	6'-8'	ND	ND	ND	ND	NA	NA
SB-Q	09/27/94	10/06/94	10/06/94	6'-8'	ND	ND	ND	ND	NA	NA
IT-SB-101	06/12/00	NA	NA	7'	ND	ND	ND	ND	NA	NA
IT-SB-102	05/10/99	NA	NA	6-8'	ND	ND	ND	ND	NA	NA
IT-SB-103	05/10/99	NA	NA	6-8'	ND	ND	ND	ND	NA	NA
SB-1	09/26/94	10/05/94	10/05/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-2	09/26/94	10/05/94	10/05/94	0'-2	ND	ND	ND	ND	NA	NA
	09/26/94	10/05/94	10/05/94	6-8'	ND	ND	ND	ND	NA	NA
SB-3	09/26/94	10/05/94	10/05/94	4'-6'	160	1,600	740	4,700	NA	NA
SB-4*	09/26/94	10/05/94	10/05/94	4'-6'	27,000	1,700	6,200	31,000	NA	NA
SB-4	09/26/94	10/05/94	10/05/94	8'-10'	ND	16	ND	ND	NA	NA
SB-5*	09/26/94	10/05/94	10/05/94	6'-8'	38	18	39	370	NA	NA
SB-6*	09/26/94	10/05/94	10/05/94	6-8'	ND	ND	ND	ND	NA	NA
SB-7*	09/26/94	10/05/94	10/05/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-8*	09/26/94	10/06/94	10/06/94	4'-6'	23	21	12	96	NA	NA
SB-9	09/27/94	09/29/94	09/29/94	3'-5'	ND	ND	ND	ND	NA	NA

Historical Soil Analytical Results - BTEX and TMBs

Sunoco Inc.

Livernois and Hazelton Roads Pipeline Project Rochester Hills, Michigan

Sample	Sampling Date	Extraction Date	Analysis Date	Sample Depth eet below surfac	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5 - TMB (ug/kg)
Groundwate	r/Surface Wat	ter Interface P	rotection Co	riteria	4,000	2,800	360	700	570	1,100
Generic Res	idential Volita	lization to Inc	door Air Crit	eria	1,600	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Direc	t Contact Crit	eria		180,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Grou	ndwater Cont	act Protection	on Criteria	220,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Ambi	ent Air Inhala	tion Criteria		13,000	2,800,000	720,000	46,000,000	21,000,000	16,000,000
SB-10	09/26/94	10/05/94	10/05/94	4-8'	ND	ND	ND	ND	NA	NA
SB-11	09/26/94	09/29/94	09/29/94	6'-8'	ND	ND	ND	ND	NA	NA
	09/26/94	09/29/94	09/29/94	8'-10'	ND	ND	ND	ND	NA	NA
SB-12	09/26/94	10/05/94	10/05/94	2-4'	ND	ND	ND	ND	NA	NA
SB-16	09/26/94	10/05/94	10/05/94	4-8'	ND	ND	ND	ND	NA	NA
SB-17	09/26/94	10/05/94	10/05/94	6-8'	ND	ND	ND	ND	NA	NA
SB-18	09/26/94	10/05/94	10/05/94	6-8'	ND	ND	ND	ND	NA	NA
SB-18	09/26/94	10/05/94	10/05/94	8-10'	ND	ND	ND	ND	NA	NA
SB-23	09/26/94	09/29/94	09/29/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-24*	09/26/94	10/05/94	10/05/94	4-6'	ND	ND	ND	ND	NA	NA
SB-25	09/26/94	10/04/94	10/04/94	2'-4'	13	12	14	160	NA	NA
SB-26	09/27/94	10/05/94	10/05/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-27	09/27/94	10/05/94	10/05/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-28	09/27/94	10/05/94	10/05/94	4-6'	ND	ND	ND	ND	NA	NA
SB-29	09/27/94	10/05/94	10/05/94	2-4'	ND	ND	ND	ND	NA	NA
SB-30	09/27/94	10/06/94	10/06/94	4-6'	ND	ND	ND	ND	NA	NA
SB-31*	09/27/94	09/29/94	09/29/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-32	09/27/94	10/06/94	10/06/94	4-6'	ND	ND	ND	ND	NA	NA
SB-33	09/27/94	10/06/94	10/06/94	2'-4'	ND	ND	ND	ND	NA	NA
SB-34	09/27/94	09/29/94	09/29/94	4'-6'	ND	ND	ND	ND	NA	NA
SB-35	09/27/94	10/06/94	10/06/94	4'-6'	ND	84	20	150	NA	NA
SB-36	09/27/94	10/06/94	10/06/94	2'-4'	ND	39	18	120	NA	NA
	09/27/94	10/06/94	10/06/94	8'-10'	ND	ND	ND	ND	NA	NA
SB-37	09/27/94	10/06/94	10/06/94	4'-6'	ND	ND	ND	ND	NA	NA
SB-39	NA	NA	NA	5'-7'	ND	ND	ND	ND	NA	NA

Historical Soil Analytical Results - BTEX and TMBs

Sunoco Inc.

Livernois and Hazelton Roads Pipeline Project Rochester Hills, Michigan

Sample ID	Sampling Date	Extraction Date	Analysis Date	Sample Depth eet below surfac	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5 - TMB (ug/kg)
Groundwate	r/Surface Wat	er Interface F	rotection C	riteria	4,000	2,800	360	700	570	1,100
Generic Res	idential Volita	lization to In	door Air Crit	eria	1,600	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Direc	t Contact Crit	teria		180,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Groun	ndwater Cont	act Protection	on Criteria	220,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Ambi	ent Air Inhala	tion Criteria		13,000	2,800,000	720,000	46,000,000	21,000,000	16,000,000
HB-1	09/26/94	10/05/94	10/05/94	1'	ND	ND	14	141	NA	NA
HB-2	09/26/94	10/05/04	10/05/94	1'	ND	ND	ND	ND	NA	NA
HB-3	09/26/94	10/05/94	10/05/94	1'	ND	ND	ND	ND	NA	NA
HB-4	09/27/94	10/03/94	10/03/94	NA	ND	ND	ND	ND	NA	NA
1B	11/08/94	11/09/94	11/09/94	8'	ND	ND	ND	ND	NA	NA
1E*	11/08/94	11/09/94	11/09/94	5'	1,600	7,700	4,400	24,000	NA	NA
1W	11/08/94	11/09/94	11/09/94	5'	4,300	19,000	63,000	34,000	NA	NA
2B	11/08/94	11/09/94	11/09/94	8'	ND	ND	ND	ND	NA	NA
2E	11/08/94	11/09/94	11/09/94	5'	ND	ND	ND	ND	NA	NA
2W	11/08/94	11/09/94	11/09/94	5'	47	43	ND	11	NA	NA
3B	11/08/94	11/09/94	11/09/94	8'	9	8	ND	ND	NA	NA
3E	11/08/94	11/09/94	11/09/94	5'	ND	ND	ND	ND	NA	NA
3W	11/08/94	11/09/94	11/09/94	5'	ND	ND	ND	ND	NA	NA
4B*	11/09/94	11/11/94	11/11/94	8'	140	21	10	87	NA	NA
4W	11/09/94	11/11/94	11/11/94	5'	75	150	45	250	NA	NA
5B*	11/09/94	11/11/94	11/11/94	8'	300	27	17	20	NA	NA
5W	11/09/94	11/11/94	11/11/94	5'	730	960	330	1,200	NA	NA
6B*	11/11/94	11/14/94	11/14/94	8'	900	930	130	560	NA	NA
6W	11/11/94	11/14/94	11/14/94	5'	310	580	290	1,400	NA	NA
7B*	11/15/94	11/16/94	11/16/94	8'	330	240	14	60	NA	NA
7E*	11/15/94	11/16/94	11/16/94	5'	590	1,400	420	2,300	NA	NA
7W	11/15/94	11/16/94	11/16/94	5'	390	1,300	510	2,900	NA	NA
8B	11/15/94	11/17/94	11/17/94	8'	88	58	13	48	NA	NA
8E	11/15/94	11/17/94	11/17/94	5'	17	22	5	21	NA	NA
8W	11/15/94	11/17/94	11/17/94	5'	8	ND	ND	ND	NA	NA
9B	11/16/94	11/17/94	11/17/94	8'	ND	ND	ND	ND	NA	NA
9E	11/16/94	11/17/94	11/17/94	5'	ND	ND	ND	ND	NA	NA

Historical Soil Analytical Results - BTEX and TMBs

Sunoco Inc.

Livernois and Hazelton Roads Pipeline Project Rochester Hills, Michigan

Sample	Sampling Date	Extraction Date	Analysis Date	Sample Depth eet below surfac	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5 - TMB (ug/kg)
Groundwate	r/Surface Wat	ter Interface P	rotection Cr	riteria	4,000	2,800	360	700	570	1,100
Generic Res	idential Volita	lization to Inc	door Air Crit	eria	1,600	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Direc	t Contact Crit	eria		180,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Grou	ndwater Cont	act Protection	on Criteria	220,000	250,000	140,000	150,000	110,000	94,000
Generic Res	idential Ambi	ent Air Inhala	tion Criteria		13,000	2,800,000	720,000	46,000,000	21,000,000	16,000,000
9W	11/16/94	11/17/94	11/17/94	5'	ND	ND	ND	ND	NA	NA
10B	11/16/94	11/17/94	11/17/94	8'	ND	ND	ND	ND	NA	NA
10E	11/16/94	11/17/94	11/17/94	5'	ND	ND	ND	ND	NA	NA
10W	11/16/94	11/21/94	11/21/94	5'	ND	ND	ND	ND	NA	NA
11B	11/16/94	11/17/94	11/17/94	8'	ND	ND	ND	ND	NA	NA
11E	11/16/94	11/17/94	11/17/94	5'	ND	ND	ND	ND	NA	NA
11W	11/16/94	11/17/94	11/17/94	5'	ND	ND	ND	ND	NA	NA
12B	11/16/94	11/18/94	11/18/94	8'	ND	ND	ND	ND	NA	NA
13B	NA	NA	NA	8'	ND	ND	ND	ND	NA	NA
13E	11/17/94	11/18/94	11/18/94	5'	ND	ND	ND	ND	NA	NA
14B	11/17/94	11/18/94	11/18/94	8'	ND	ND	ND	ND	NA	NA
14E	11/17/94	11/18/94	11/18/94	5'	ND	ND	ND	ND	NA	NA
15B	11/18/94	11/20/94	11/20/94	5'	ND	ND	ND	ND	NA	NA
15E	11/18/94	11/19/94	11/19/94	8'	290	6	ND	100	NA	NA
16B	11/18/94	1//20/94	11/20/94	8'	ND	ND	ND	ND	NA	NA
16E	11/18/94	11/19/94	11/19/94	5'	140	ND	ND	61	NA	NA
17B	11/21/94	11/22/94	11/22/94	9'	35	10	ND	ND	NA	NA
17E	11/21/94	11/22/94	11/22/94	5'	ND	ND	ND	ND	NA	NA
175	11/21/94	11/22/94	11/22/94	5'	ND	ND	ND	ND	NA	NA
18B	11/22/94	11/29/94	11/29/94	8'	ND	ND	ND	ND	NA	NA
18E	11/22/94	11/29/94	11/29/94	5'	ND	ND	ND	ND	NA	NA
19B	11/22/94	11/29/94	11/29/94	8'	ND	ND	ND	ND	NA	NA
19E	11/22/94	11/29/94	11/29/94	5'	ND	ND	ND	ND	NA	NA
S25	11/22/94	11/29/94	11/29/94	0.5'	ND	ND	ND	ND	NA	NA
S50	11/22/94	11/29/94	11/29/94	0.5'	ND	ND	ND	ND	NA	NA
S75	11/22/94	11/29/94	11/29/94	0.5'	ND	ND	ND	ND	NA	NA
S100	11/22/94	11/29/94	11/29/94	0.5'	ND	ND	ND	ND	NA	NA

Additional Comments:

*- Soil sample removed during widening of excavation

ID - Insufficient Data

NA - Not Available

ND - Not Detected

Historical Soil Analytical Results - Polynuclear Aromatic Compounds
Sunoco Inc.
Livernois and Hazelton Roads Pipeline Project
Rochester Hills, Michigan

Sample	Date			Sample Depth	Naphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Chrysene	Dibenzo (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Phenanthrene	Pyrene
ID	Sampled	Date	Date	(feet below surface)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Groundwater/Surf	ace Water I	nterface Pro	tection Cri	teria	870	ID	4,400	ID	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	2,300	ID
Generic Residentia	al Volitaliza	tion to Indoo	or Air Crite	ria	250,000	ID	190,000,000	1,600,000	1,000,000,000	NLV	ID	NLV	NLV	NLV	ID	NLV	1,000,000,000	580,000,000	NLV	1,800,000	1,000,000,000
Generic Residentia	al Direct Co	ntact Criteri	a		16,000,000	8,100,000	41,000,000	1,600,000	230,000,000	20,000	20,000	200,000	2,000	2,500,000	2,000,000	2,000	46,000,000	27,000,000	20,000	1,600,000	29.000.000
Generic Residenti	al Groundw	ater Contac	t Protection	n Criteria	2,100,000	5,500,000	970,000	440,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	730,000	890,000	NLL	1,100,000	480,000
				- Cintona	300,000	ID	81,000,000	2,200,000	1,400,000,000	NLV	ID					-					
Generic Residenti	NA NA	NA NA	NA NA	4'-6'	ND	NS	ND	ND	1,400,000,000 ND	ND	ND ND	NLV ND	NLV ND	NLV ND	ID ND	NLV ND	740,000,000 ND	130,000,000 ND	NLV ND	160,000	650,000,000
36-6	NA NA	NA NA	NA NA	6'-8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-E	NA	NA	NA	8'-10'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-I	NA	NA	NA	4'-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-K SB-L	09/27/94	10/05/94 10/05/94	10/05/94	4'-6' 4'-6'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND	ND	ND
SB-M	09/27/94	10/05/94	10/05/94	4'-6'	ND	NS	ND	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-N	09/27/94	09/29/94	09/29/94		ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
SB-0	09/27/94	09/29/94	09/29/94	0'-2'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-P	09/27/94	09/29/94	09/29/94 10/04/94	6'-8' 6'-8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND 1	ND	ND	ND	ND
SP-Q IT-SB-101	09/27/94	10/04/94 NA	10/04/94 NA	7'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
IT-SB-101	05/10/99	NA NA	NA	6'-8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND
IT-SB-103	05/10/99	NA	NA	6'-8	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ·	ND	ND	ND	ND
SB-1	09/26/94	10/05/94	10/05/94	2'-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	860	ND	ND	810	1,600
SB-2	09/26/94	10/05/94	10/05/94	0'-2 6'-8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	900 ND	ND ND	ND ND	400	990
SB-3	09/26/94	10/05/94	10/05/94		ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND 440	ND ND
SB-4*	09/26/94	09/29/94	09/29/94	4'-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/26/94	09/29/94	09/29/94	8-10'	ND ND	NS	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-5* SB-6*	09/26/94	10/05/94	10/05/94	6-8' 6'-8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND
SB-7*	09/26/94	10/05/94	10/05/94	2'-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 460	ND ND	ND ND	ND ND	ND 590
SB-8*	09/26/94	10/05/94	10/05/94	4-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9	09/27/94	09/29/94	09/29/94	3-5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10 SB-11	09/26/94	10/05/94 09/29/94	10/05/94	4'-8' 6-8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36-11	09/26/94	09/29/94	09/29/94	8-10'	ND	NS	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-12	09/26/94	10/04/94	10/04/94	2'-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
SB-16	09/26/94	10/05/94	10/05/94	4'-8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-17	09/26/94	10/05/94	10/05/94		ND ND	NS NS	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-18	09/26/94	10/04/94	10/04/95 10/04/94		ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-23	09/26/94	09/29/94	09/29/94	2'-4'	ND	NS	ND	ND	530	910	860	530	820	390	550	560	2,600	ND	840	1,600	3,600
SB-24*	09/26/94	10/04/94	10/04/94	4'-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND	ND	ND	ND	ND	ND
SB-25	09/26/94	10/04/94	10/04/94		ND ND	NS NS	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-26 SB-27	09/27/94	10/05/94	10/05/94		ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 650	ND ND	ND ND	ND 440	490
SB-28	09/27/94	10/05/94	10/05/94		ND	NS	ND ND	ND	ND ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	1,100	ND ND	ND ND	1,200	620 1.300
SB-29	09/27/94	10/04/94	10/04/94	2'-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND
SB-30	09/27/94	10/04/94	10/04/94		ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 3	ND	ND	ND	ND
SB-31*	09/27/94	09/29/94	09/29/94	2-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	ND	ND	ND	480

Historical Soil Analytical Results - Polynuclear Aromatic Compounds
Sunoco Inc.
Livernois and Hazelton Roads Pipeline Project
Rochester Hills, Michigan

Sample	Date	Extraction	Analysis	Sample Depth	Naphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Chrysene	Dibenzo (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Phenanthrene	Pyrene
ID	Sampled	Date	Date	(feet below surface)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Groundwater/Sur	ace Water I	nterface Pro	tection Cri	teria	870	ID	4,400	ID	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	2,300	ID.
Generic Resident	al Volitaliza	tion to Indo	or Air Crite	ria	250,000	ID	190,000,000	1,600,000	1,000,000,000	NLV	ID	NLV	NLV	NLV	ID	NLV	1,000,000,000	580,000,000	NLV	1,800,000	1,000,000,000
Generic Resident	al Direct Co	ntact Criteri	а		16,000,000	8,100,000	41,000,000	1,600,000	230,000,000	20,000	20,000	200,000	2,000	2,500,000	2,000,000	2,000	46,000,000	27,000,000	20,000	1,600,000	29,000,000
Generic Resident	al Groundw	ater Contac	Protection	n Criteria	2,100,000	5,500,000	970,000	440,000	41.000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	730,000	890.000	NLL	1,100,000	
Generic Resident					300,000	ID	81,000,000	2,200,000	1,400,000,000	NLV	ID	NLV	NLV	NLV	ID	NLV	740,000,000			T	480,000
SB-32	09/27/94	10/04/94	10/04/94	4-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	NLV ND	740,000,000 ND	130,000,000 ND	NLV ND	160,000 ND	650,000,000
SB-33	09/27/94	10/05/94	10/04/94	2-4'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-34 SB-35	09/27/94	09/29/94 10/05/94	09/29/94	4-6'	ND ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-36	09/27/94	10/05/94	10/05/94	4-6' 2-4'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND
	09/27/94	10/04/94	10/04/94	8-10'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
SB-37 SB-39	09/27/94	10/05/94	10/05/94	4-6'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HB-1	NA 09/26/94	NA 10/05/94	NA 10/05/94	5-7' 1'	ND 3.400	NS NS	ND 3,600	ND 4,500	ND 690	ND 3,400	ND 1,200	ND 950	ND 400	ND 660	ND 1,000	ND	ND	ND	ND	ND	ND
HB-2	09/26/94	10/04/94	10/04/94	1'	ND	NS	ND ND	ND	ND ND	ND	ND	ND	ND ND	ND	1,200 ND	750 ND	2,200 ND	7,600 ND	1,100 ND	1,800 ND	2,600 ND
HB-3	09/26/94	10/05/94	10/05/94	1'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	450	ND	ND	ND ND	560
HB-4 1B	09/27/94	09/29/94 11/09/94	09/29/94 11/10/94	NA 8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1E*	11/08/94	11/09/94	11/11/94	5'	7,800	NS	5,300	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND .	ND ND	ND ND	ND 1,700	ND
1W	11/08/94	11/09/94	11/11/94	5'	24,000	NS	14,000	ND	1,700	ND	ND	ND	ND	ND	ND	ND	2,100	ND	ND	5.000	ND ND
2B 2E	11/08/94	11/09/94	11/11/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2W	11/08/94	11/09/94	11/11/94	5' 5'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND
3B	11/08/94	11/09/94	11/11/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND .	ND ND	ND ND	ND ND	ND ND
3E	11/08/94	11/09/94	11/11/94	5'	ND	NS	ND	ND	ND	360	ND	ND	ND	ND	ND	ND	460	ND	ND	ND	400
3W 4B*	11/08/94	11/09/94	11/12/94	5'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4W	11/09/94	11/14/94	11/14/94	5'	ND	NS	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
5B*	11/09/94	11/14/94	11/14/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND
5W 6B*	11/09/94	11/14/94	11/14/94	5'	450 ND	NS	ND	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	ND
6W	11/11/94	11/14/94	11/15/94	5'	ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
7B*	11/15/94	11/16/94	11/17/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND
7E*	11/15/94	11/16/94	11/17/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7W 8B	11/15/94	11/16/94	11/17/94	5' 8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND
8E	11/15/94	11/16/94	11/18/94	5'	ND	NS	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
8W	11/15/94	11/16/94	11/18/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND
9B 9E	11/16/94	11/18/94	11/20/94	8' 5'	ND ND	NS NS	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND T	ND	ND	ND	ND
9W	11/16/94	11/18/94	11/20/94	5'	ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
10B	11/16/94	11/18/94	11/20/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
10E	11/16/94	11/18/94	11/20/94	5'	ND	NS	ND	ND	ND	470	350	ND	ND	ND	ND	ND	660	ND	ND	350	520
10W 11B	11/16/94	11/18/94	11/20/94	5' 8'	ND ND	NS NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11E	11/16/94	11/18/94	11/20/94	5'	ND	NS	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
11W	11/16/94	11/18/94	11/20/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND
12B	11/16/94	11/18/94	11/20/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Historical Soil Analytical Results - Polynuclear Aromatic Compounds

Sunoco Inc.
Livernois and Hazelton Roads Pipeline Project
Rochester Hills, Michigan

Sample	Date	Extraction	Analysis	Sample Depth	Naphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Chrysene	Dibenzo (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Phenanthrene	Pyrene
ID	Sampled	Date	Date	(feet below surface)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Groundwater/Su	face Water I	nterface Pro	tection Crit	teria	870	ID	4,400	ID	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5.300	NLL	2.300	ID
Generic Residen	ial Volitaliza	tion to Indoo	or Air Criter	ria	250,000	ID	190,000,000	1.600.000	1,000,000,000	NLV	ID	NLV	NLV	NLV	ID	NLV	1,000,000,000	580,000,000	NLV	1,800,000	1,000,000,000
Generic Residen	ial Direct Co	ntact Criteri			16,000,000	8,100,000	41,000,000	1,600,000	230,000,000	20,000	20,000	200,000	2,000	2,500,000	2,000,000	2,000	46,000,000				
Generic Residen				Critorio	2,100,000	5,500,000	970.000	440,000	41.000				_			_		27,000,000	20,000	1,600,000	29,000,000
				Criteria				The state of the s	11,111	NLL	NLL	NLL	NLL	NLL	NLL	NLL	730,000	890,000	NLL	1,100,000	480,000
Generic Residen			n Criteria		300,000	ID	81,000,000	2,200,000	1,400,000,000	NLV	ID	NLV	NLV	NLV	ID	NLV	740,000,000	130,000,000	NLV	160,000	650,000,000
13B	NA	NA	NA	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13E	11/17/94	11/18/94	11/20/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14B	11/17/94	11/18/94	11/20/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14E	11/17/94	11/18/94	11/20/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15B	11/18/94	11/21/94	11/21/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15E	11/18/94	11/21/94	11/21/94	5	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16B	11/18/94	11/21/94	11/21/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16E	11/18/94	11/21/94	11/21/94	5	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17B	11/21/94	11/22/94	11/22/94	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17E	11/21/94	11/22/94	11/22/94	5	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17S 18B	11/21/94	11/22/94	11/22/94	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/22/94	11/23/94	11/25/01	8	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18E	11/22/94	11/23/94	11/25/01	5'	ND	NS	ND	ND	380	ND	720	ND	470	950	780	1,100	1,700	ND	1,500	690	1,300
19B 19E	11/22/94	11/23/94	11/25/01	8'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19E S25	11/22/94	11/23/94	11/25/01	5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S25 S50	11/22/94	11/23/94	11/25/01	0.5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	320	ND	ND	370	ND	370	ND	ND
	11/22/94	11/23/94	11/25/01	0.5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	440	ND	400	310	ND	500	ND	ND
S75	11/22/94	11/23/94	11/25/01	0.5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND .	ND	ND	ND	ND
S100	11/22/94	11/23/94	11/25/01	0.5'	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Additional Comments:

*- Soil Sample excavated during excavation widening (Handex, 1995).

ID - Insufficient Data

NLL - Not Likely to Leach

NLV - Not Likely to Volatilize

NA = Not Available

NS = Not Sampled

ND = Relow Method Detection Limit

ND = Below Method Detection Limit

Historical Groundwater Analytical Results - BTEX, MTBE, TMBs, Naphthalene, 2-methylnaphthalene

Sunoco, Inc. Livernois and Hazelton Roads Pipeline Rochester Hills, Michigan

Well ID	Sample Date	Analysis Date	Screen Interval	Benzene (ug/l)	Toluene (ug/l)	Ethyl-Benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	2-methylnaphth	Naphth (ug/l)	1,2,4 TMBs	1,3,5 TMBs
Groundwater/Su				200	140	(ug/i) 18	35	730	(ug/l)	(ug/l) 13	(ug/l) 17	(ug/l) 45
			Inhalation Criteria	5600	530000	170000	190000	47,000,000	ID ID	31,000	56,000	61,000
Generic Residen				11,000	530000	170000	190000	47,000,000	25,000	31,000	56,000	61,000
SB-1	09/26/94	10/04/94	NA NA	ND	ND	ND	ND	NA	NA I	NA	NA	NA
SB-4	09/26/94	09/29/94	NA	5,100	4,800	1,000	4,800	NA	NA	NA	NA	NA
SB-9	09/27/94	09/29/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-12	09/26/94	10/06/04	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-29	09/27/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-31	09/27/94	09/29/94	NA	650	290	5	23	NA	NA	NA	NA	NA
SB-32	09/27/94	10/05/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-39	09/27/94	09/29/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-A	09/26/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-B	09/26/94	09/29/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-C	09/26/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-G	09/27/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-J	09/27/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-K	09/27/94	10/06/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-N	09/27/94	09/29/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-O	09/27/94	09/29/94	NA	ND	ND	ND	ND	. NA	NA	NA	NA	NA
SB-P	09/27/94	09/29/94	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
HA-4	09/27/94	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
MW-1	11/26/96	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	05/23/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	09/15/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	12/10/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA .	NA
	03/17/98	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	05/11/98	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
MW-2	11/26/96	NA	2-7'	24	29	110	37	NA	NA	NA	NA	NA
	05/23/97	NA	2-7'	860	<1	64	<3	NA	NA	NA	NA	NA
	09/15/97	NA	2-7'	500	19	140	<3	NA	NA	NA	NA	NA
	12/10/97	NA	2-7'	500	29	200	12	NA	NA	NA	NA	NA
	03/17/98	NA	2-7'	<5	1	<1	<3	NA	NA	NA	NA	NA
	05/11/98	NA	2-7'	<5	2	2	14	NA	NA	NA	NA	NA
	06/12/00	NA	2-7'	<5	<5	<5	<5	NA	NA	NA	NA	NA

Historical Groundwater Analytical Results - BTEX, MTBE, TMBs, Naphthalene, 2-methylnaphthalene

Sunoco, Inc.

Livernois and Hazelton Roads Pipeline Rochester Hills, Michigan

Well	Sample	Analysis	Screen Interval	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE	2-methylnaphth	Naphth	1,2,4 TMBs	1,3,5 TMBs
	Date	Date		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Groundwater/Sur	ace Water Inter	face Criteria		200	140	18	35	730	ID	13	17	45
Generic Resident	al Volitalization	to Indoor Air	Inhalation Criteria	5600	530000	170000	190000	47,000,000	ID	31,000	56,000	61,000
Generic Resident	al Groundwater	Contact Crite	eria	11,000	530000	170000	190000	47,000,000	25,000	31,000	56,000	61,000
MW-3	11/26/96	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	05/23/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
,	09/15/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	12/10/97	NA	2-7'	<5	<1	<1	<3	NA	NA	NA	NA	NA
	03/17/98	NA	2-7'	9	7	4	13	NA	NA	NA	NA	NA
	05/11/98	NA	2-7'	<5	<1	<1	7	NA	NA	NA	NA	NA
	06/12/00	NA	2-7'	<5	<5	<5	<5	NA	NA	NA	NA	NA
MW-101	06/12/00	NA	2-7'	<5	<5	<5	<5	NA	NA	NA	NA	NA
MW-102	06/12/00	NA	1-6'	<5	<5	<5	<5	NA	NA	NA	NA	NA
MW-103	06/12/00	NA	1-6'	<5	<5	<5	<5	NA	NA	NA	NA	NA

Additional Comments:

ID - Insufficient Data

ND = Not Detected

NA = Not Available

Shading - Exceeds Part 201 Criteria

Historical Groundwater Analytical Results - PNAs

Sunoco, Inc. Livernois and Hazelton Roads Pipeline Rochester Hills, Michigan

Sample ID	Sample Date	Screen Interval	Naphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Athracene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Chrysene	Dibenzo (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Phenanthrene	Pyrene
				- 15	- 10	I ID	ID	. NA	I ID		grams pe	NA	ID	ID	2	12	ID	5	ID
Groundwater/Surface W		alatian Critaria	13 31,000	ID ID	19 4,200	3,900	1D 43	NA NLV	ID NLV	NA NLV	ID NLV	NLV	ID	NLV	210	2,000	NLV	1,000	140
	italization to Indoor Air Inh oundwater Contact Criteria		31,000	25,000	4,200	3,900	43	9	2	5	5	5	5	5	210	2,000	5	1,000	140
SB-4	9/26/1994	NA	1,300	NS	ND	220	65	180	25	57	ND	ND	34	ND	580	91	ND	260	1,100
SB-29	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-31	9/27/1994	NA	8	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-32	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-39	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-A	9/26/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-K	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-N	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-P	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4	9/27/1994	NA	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-1	11/26/1996	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	3/17/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	5/11/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-2	11/26/1996	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	3/17/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	5/11/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/12/2000	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-3	11/26/1996	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	3/17/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	5/11/1998	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/12/2000	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-101	6/12/2000	2-7'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-102	6/12/2000	1-6'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-103	6/12/2000	1-6'	<5	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Additional Comments:

NS = Not Sampled

ND = Not Detected

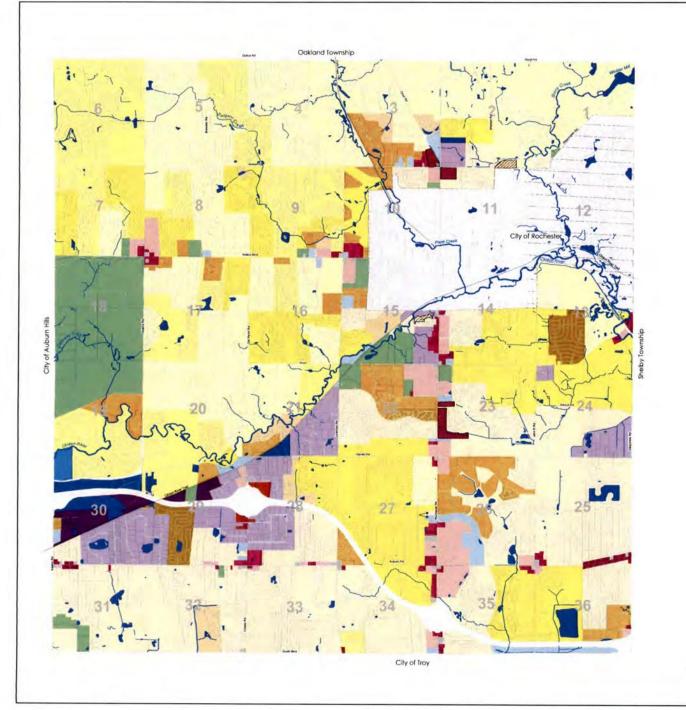
NA = Not Available

ID - Insufficient Data NLV = Not Likely to Volatilize

SECOR INTERNATIONAL INCORPORATED



APPENDIX C ZONING DOCUMENTATION





ZONING DISTRICTS



** Zoning is pursuant to a Consent Judgment

4 Township Section Number

This map is for informational purposes only. A certified copy of the city's zoning map and subsequent zoning amendments are available at the City Clerk's office.





June 2005

Katherine Young

From: Oakland County Record Center <oaklandcountymi@mycusthelp.net>

Sent: Wednesday, November 8, 2023 3:53 PM

To: FOIA

Subject: Freedom of Information Act (FOIA) Request :: F006783-110123

--- Please respond above this line ---



OAKLAND COUNTY EXECUTIVE DAVID COULTER

Leigh-Anne Stafford, Health Officer (248) 858-1280 | health@oakgov.com

November 8, 2023

FOIA Coordinator ASTI Environmental

10448 Citation Drive Suite 100 Brighton MI 48116 foia@asti-env.com

RE: FOIA REQUEST(S)
3514 S. LIVERNOIS
ROCHESTER HILLS, OAKLAND COUNTY, MI
PARCEL #(S):15-33-426-025
REFERENCE NUMBER: F006783-110123

Dear FOIA Coordinator:

Per your request and a review of our records, the Oakland County Health Division (OCHD) does not maintain files for LUSTs, ASTs or USTs for this site.

The OCHD has denied your request because for information regarding "...environmental concerns..." does not describe a public record sufficiently to enable the public body to find the public record. No information regarding landfills, on-site sewage disposal permits, water well permits, or well logs were found for the captioned property. OCHD is not conducting ongoing monitoring of any groundwater pollutants for the property, nor are there files for historical monitoring on this site.

If you wish to modify your request by providing a complete list of specific concerns and properties, with date ranges for the information you desire, OCHD will provide available information in compliance with the FOIA.

It is recommended that you contact the Michigan Department of Licensing and Regulatory Affairs and the Michigan Department of Environmental Quality as those agencies have regulatory authority over certain environmental pollutants and monitoring activities. It is advised that you contact the local water supply and sewer agencies as they may have authority over certain aspects of the captioned property. If you have any questions, please contact this Division at (248) 858-1312.

YOUR FURTHER LEGAL RIGHTS

To the extent that this response, in your opinion, constitutes a denial of your Freedom of Information Act (FOIA) rights, your statutory remedies are as follows:

<u>For FOIA denials</u>, you may submit to the head of the public body a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial. Within 10 business days after the head of the public body receives a written appeal he or she will do one of the following:

- 1. Reverse the denial.
- 2. Issue a written notice to you upholding the denial.
- 3. Reverse the denial in part and issue a written notice to you upholding the denial in part.
- 4. Under unusual circumstances, issue a notice extending for not more than 10 business days the time to respond.

You may begin a civil action in circuit court to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny a request.

You have the right to receive attorneys' fees and damages as provided in MCL 15.240 if, after judicial review, the court determines that the public body has not complied with MCL 15.235 and orders disclosure of all or a portion of a public record.

<u>For fee appeals</u>, if the public body requires a fee that, in your opinion, exceeds the amount permitted under its procedures and guidelines or MCL 15.234, you may submit to the head of the public body a written fee appeal for a fee reduction that specifically states the word "appeal" and identifies how the required fee exceeds the amount permitted. Within 10 business days after the head of the public body receives a written fee appeal, he or she will do one of the following:

- 1. Waive the fee.
- 2. Reduce the fee and issue a written determination to the requesting person indicating the basis for the remaining fee.
- 3. Uphold the fee and issue a written determination to the requesting person indicating the basis for upholding the fee.
- 4. If necessary, issue a notice extending for not more than 10 business days the time to respond.

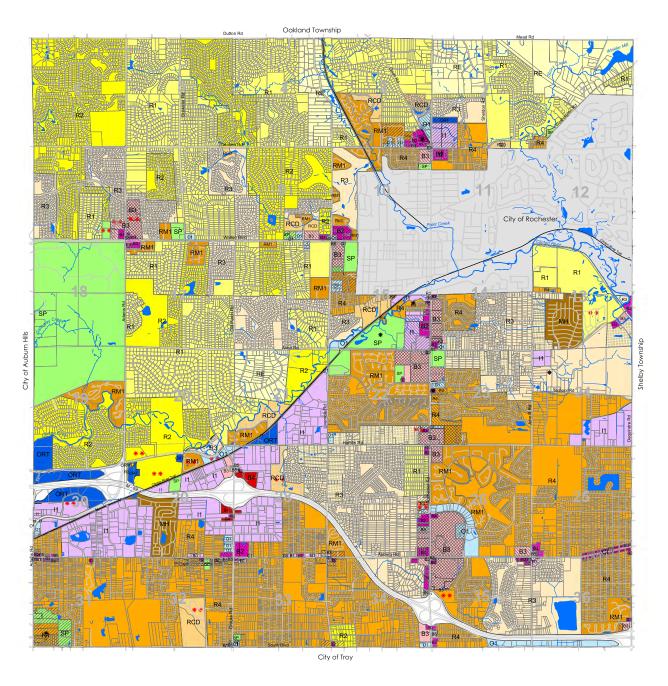
Within 45 days after the head of the public body issues a written determination on the fee appeal or if the head of the public body failed to respond to the fee appeal, you may begin a civil action in circuit court.

Oakland County's FOIA Procedures and Guidelines, and its Public Summary, can be found at https://www.oakgov.com/government/FOIA.

Sincerely,

OAKLAND COUNTY HEALTH DIVISION
Department of Health and Human Services

Amy Plevinski Public Health Sanitarian Senior To monitor the progress or update this request please log into the <u>FOIA Record Center</u>.





ZONING DISTRICTS

- * PUD Overlay
- ** Land Use is pursuant to Consent Judgment

Zoning

ZONE

RE: Residential Estate

R-1: One Family Residential

R-2: One Family Residential

R-3: One Family Residential

R-4: One Family Residential

RCD: One Family Cluster

RM-1: Multiple Family Residential

MH: Mobile Home Park

B-1: Local Business

B-2: General Business

B-3: Shopping Center Business

B-4: Freeway Service Business

B-5: Automotive Business

B-3. Automotive Business

CI: Commercial Improvement

O-1: Office Business

ORT: Office - Research - Technology

I: Industrial

SP: Special Purpose

FB-1: Flexible Business Overlay

FB-2: Flexible Business Overlay

FB-3: Flexible Business Overlay

MR: Mixed Residential Overlay

Township Section Number

This map is for informational purposes only. A certified copy of the city's zoning map and subsequent zoning amendments are available at the City Clerk's office.

*



1 Inch = 2,000 Feet

03/26/14
Published by MIS Department

APPENDIX E

Historical Research Documentation

EDR Aerial Photo Decade Package EDR Sanborn Report EDR City Directory Image Report EDR Historical Topo Map Report



3514 S Livernois

3514 S Livernois Rochester, MI 48309

Inquiry Number: 7486636.8

November 01, 2023

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Site Name: **Client Name:**

3514 S Livernois Applied Science & Technology 3514 S Livernois 10448 Citation Drive Rochester, MI 48309 Brighton, MI 48116 EDR Inquiry # 7486636.8



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Contact: Aliya Spotts

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1999	1"=500'	Acquisition Date: March 28, 1999	USGS/DOQQ
1997	1"=500'	Flight Date: May 04, 1997	DTE
1987	1"=500'	Flight Date: June 17, 1987	USDA
1983	1"=500'	Flight Date: May 05, 1983	USDA
1976	1"=500'	Flight Date: March 25, 1976	USDA
1972	1"=500'	Flight Date: July 01, 1972	USDA
1967	1"=500'	Flight Date: May 12, 1967	DTE
1956	1"=500'	Flight Date: May 07, 1956	DTE
1952	1"=500'	Flight Date: April 25, 1952	DTE
1949	1"=500'	Flight Date: May 03, 1949	DTE
1940	1"=500'	Flight Date: September 20, 1940	USDA
1937	1"=500'	Flight Date: October 06, 1937	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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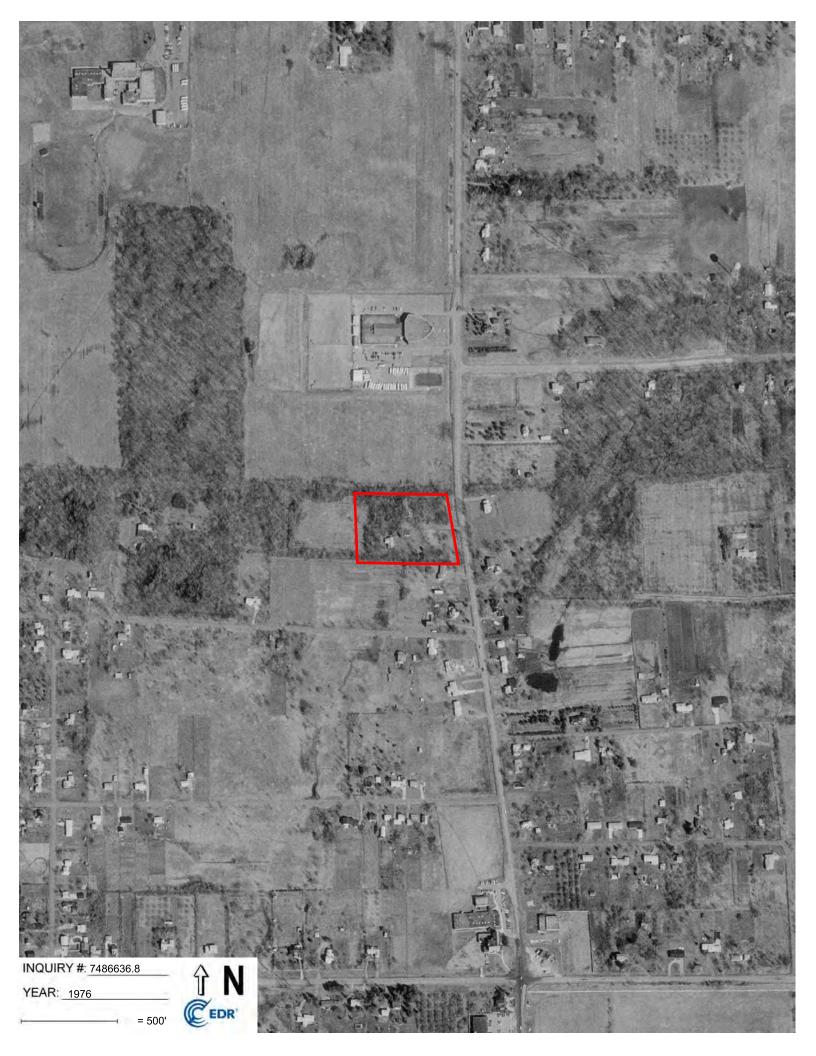






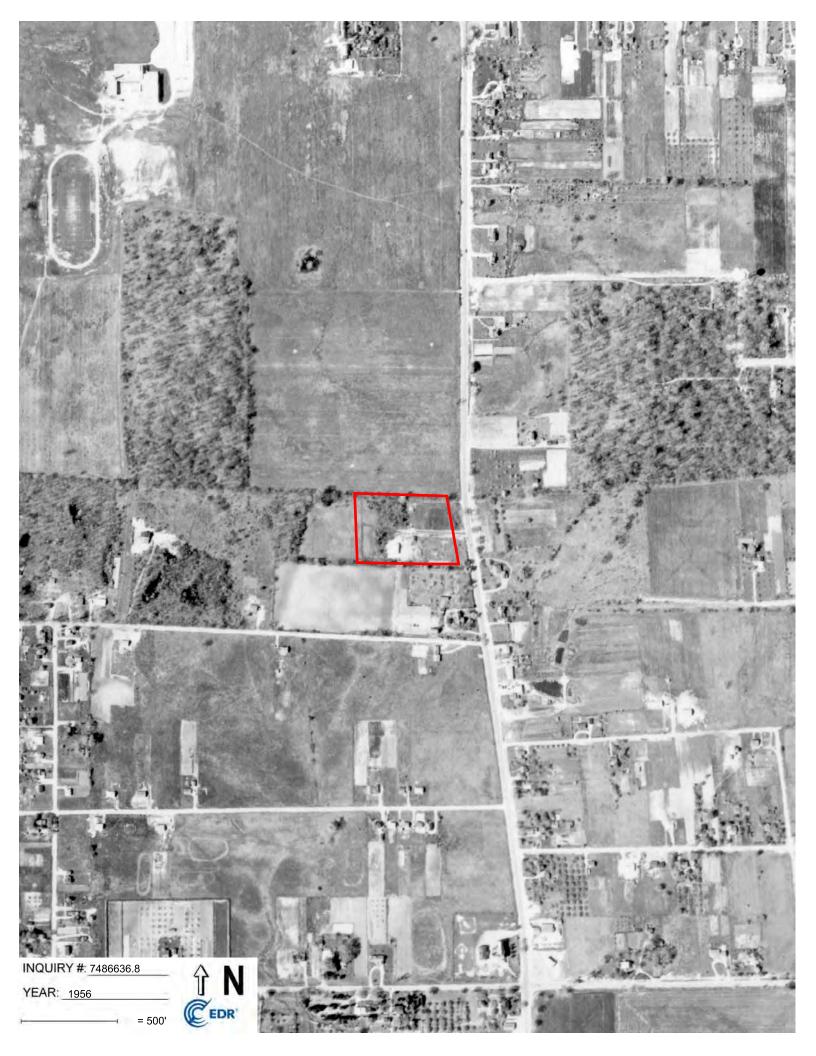




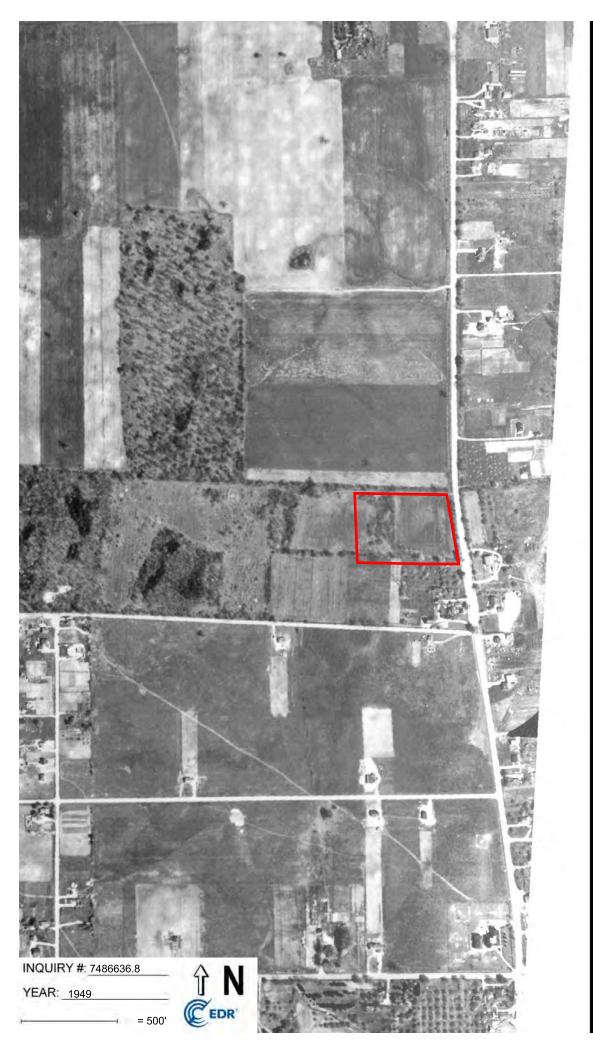
















3514 S Livernois 3514 S Livernois Rochester, MI 48309

Inquiry Number: 7486636.3

November 01, 2023

Certified Sanborn® Map Report



11/01/23

Certified Sanborn® Map Report

Site Name: Client Name:

3514 S Livernois Applied Science & Technology 10448 Citation Drive 3514 S Livernois Rochester, MI 48309 Brighton, MI 48116 EDR Inquiry # 7486636.3

Contact: Aliya Spotts

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Applied Science & Technology were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # C943-49D7-9DD5

PO# NA

11482-64 **Project**

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: C943-49D7-9DD5

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

✓ University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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3514 S Livernois

3514 S Livernois Rochester, MI 48309

Inquiry Number: 7486636.5

November 06, 2023

The EDR-City Directory Image Report

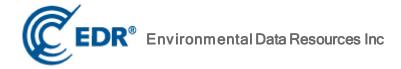


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Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2020	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2017	$\overline{\checkmark}$		Cole Information
2014	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2010	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2005	$\overline{\checkmark}$		Cole Information
2000	$\overline{\checkmark}$		Cole Information
1995	$\overline{\checkmark}$		Cole Information
1992	$\overline{\checkmark}$		Cole Information
1988	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1983	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1978	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1973	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1968	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1963	$\overline{\checkmark}$		Bresser's Cross-Index Directory Company
1958	$\overline{\mathbf{V}}$		Bresser's Cross-Index Directory Company

FINDINGS

TARGET PROPERTY STREET

3514 S Livernois Rochester, MI 48309

<u> </u>	<u>Year</u>	<u>CD Image</u>	Source
S	LIVERNOIS F	<u>RD</u>	
2	2020	pg A2	EDR Digital Archive
2	2017	pg A3	Cole Information
2	2014	pg A5	Cole Information
2	2010	pg A7	Cole Information
2	2005	pg A8	Cole Information
2	2000	pg A9	Cole Information
1	1995	pg A10	Cole Information
1	1992	pg A11	Cole Information
1	1988	pg A12	Bresser's Cross-Index Directory Company
1	1988	pg A13	Bresser's Cross-Index Directory Company
1	1983	pg A14	Bresser's Cross-Index Directory Company
1	1978	pg A15	Bresser's Cross-Index Directory Company
1	1973	pg A16	Bresser's Cross-Index Directory Company
1	1968	pg A17	Bresser's Cross-Index Directory Company
1	1963	pg A18	Bresser's Cross-Index Directory Company
1	1958	pg A19	Bresser's Cross-Index Directory Company

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FINDINGS

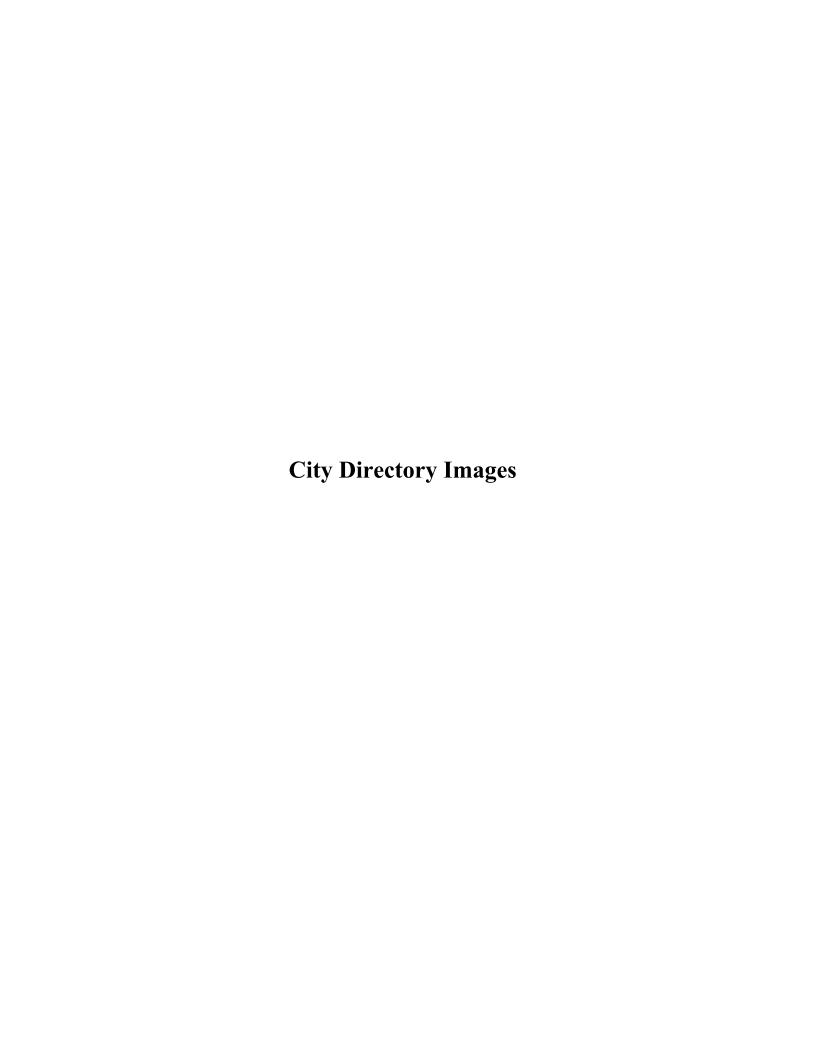
CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

COLUMBIA DR

2020	pg.A1	EDR Digital Archive	
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	pg.A4	Cole Information	
2010	pg.A6	Cole Information	
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1988	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1983	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1978	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1973	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1968	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1963	-	Bresser's Cross-Index Directory Company	Street not listed in Source
1958	-	Bresser's Cross-Index Directory Company	Street not listed in Source

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Target Street Cross Street Source
- ← EDR Digital Archive

COLUMBIA DR 2020

3471	Ajay Chadha
	Sagar Chadha
3483	Ashley Shounia
	Majid Shounia
	Siobhan Shounia
3495	Edward Yung
	Ella Yung
	King Yung
3507	Ajay Mehrotra
3519	Muneeb Shajiuddin
	Rasheeda Daanyal
	Salwa Daanyal
	Shaji Daanyal
	Sufia Shajiuddin

Target Street Cross Street Source

- EDR Digital Archive

3514 Mollie Meyer 3555 Beverly Cornell Carl McGlynn Carol McGlynn Colleen McGlynn Jennifer McGlynn	
Patrick McGlynn Robert McGlynn	
3580 Jorge Arrendondo 3594 Artur Akchurin Dena Lafnear Jose Montes Suzan Asmar	
3609 Bonnie Broadhead Nelson Broadhead	
3610 Indigo Buikema Jarrett Buikema Jeffrey Buikema	

Target Street Cross Street Source

✓ - Cole Information

	S LIVERNOIS RD	2017
3300 3309 3514 3555 3580 3609 3610 3671 3674 3682 3691 3700 3742	ROCHESTER HILLS BAPTIST CHURCH BURCH, MATTHEW C MEYER, MOLLIE L MCGLYNN, ROBERT J ARREDONDO, JORGE BROADHEAD, BONNIE L BUIKEMA, JEFFREY C ELKINS, TERRY L MORROW, HELEN C KWIKKLEAN INC WOITA, MARC R A A SEWER PLUMBING & SEPTIC BISHOP, GARY L MARCELLA, JOSEPH	

Target Street Cross Street Source
- Cole Information

COLUMBIA DR 2014

	COLUMBIA DR	2014
3411	PRCEVSKI, PETAR P	
3423	HSIEH, H	
3430	ZARKIS, GREGORY R	
3435	SZLESZYNSKI, GRZEGORZ P	
3447 3459	DAVIES, RICHARD SYED, HUSSAIN	
3483	MAJID, SHOUNIA	
3495	YUNG, YUK L	
3507	MEHROTRA, AKSHAY	
3519	DAANYAL, SHAJI U	

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	S LIVERNOIS RD	2014	
3300	ROCHESTER HILLS BAPTIST CHURCH		
3309	BURCH, MATTHEW C LOWE, JOHN H		
3514	MEYER, MOLLIE L		
3535 3555	MARGULSKI, RICHARD MCGLYNN, ROBERT J		
3580	HOPE, SCOTT		
3594	FRANKO, GABBARA		
3609	BROADHEAD, WAYNE W		
3610	BUIKEMA, JEFFREY C		
3671	ELKINS, TERRY L		
3674	MESSIEHA, MICHAEL E		
3682	WOITA, MARC R		
3700 3742	BISHOP, GARY L MARCELLA, JOSEPH		
3142	WARGELLA, JOSEI II		

Target Street Cross Street Source
- Cole Information

COLUMBIA DR 2010

3411	PRCEVSKI, PETAR P

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	S LIVERNOIS RD	2010	
3300	ROCHESTER HILLS BAPTIST CHURCH		
	SONSHINE ACADEMY		
3309	•		
3514			
3555			
3580			
3594			
3609			
3610			
3671			
3682			
2004	WOITA, MARC R		
3691			
3700 3712			
3742	,		
3/42	WARCELLA, JOSEPH		

Target Street Cross Street <u>Source</u> Cole Information

	S LIVERNOIS RD	2005
3300 3309 3475 3514 3580 3609 3651 3671 3682 3691 3700 3712 3742	ROCHESTER HILLS CHRISTIAN SCHOOLS HYKE, STUART JANISZEWSKI, ARTHUR G MEYER, MOLLIE L BREAULT, WILLIAM J BROADHEAD, WAYNE W LILLEY, ERIC J ELKINS, TERRY L JERSEYS N MORE WAITA, MARC R LOCKHART, LOWELL BISHOP, GARY L BISHOP, GARY L MARCELLA, JOSEPH	2005

Target Street Cross Street Source

✓ - Cole Information

3300	ROCHESTER HILLS BAPTIST CHURCH
3309	BURCH, CHARLES
	MAYO, G
3421	ZELENAK, PAUL
3475	JANISZEWSKI, ARTHUR G
3495	CULLEN JOSEPH C DO
3514	MEYER, MOLLIE L
3535	ZORN, DONALD D
3555	MCGLYNN, PATRICK J
3580	BREAULT, WILLIAM
3609	BROAKHEAD, SARA B
3610	ZOBAIR, TALHA A
3651	MCMURRAY, RAYMOND
3671	ELKINS, TERRY
	JUST HOCKEY MAGAZINE
3682	WOITA, MARC R
3691	A A SEWER PLUMBING & SEPTIC
	A A SEWER PLUMBING &SEPTIC
	LOWELL, L
3700	BISHOP, GARY
3712	BIBBS, OLA C
3742	MARCELLA, JOSEPH

Target Street Cross Street Source

✓ - Cole Information

0000	DOGUESTED LINE O DADTIST SUUDSU
3300	ROCHESTER HILLS BAPTIST CHURCH
	ROCHESTER HILLS CHRISTIAN SCHL
	ROCHESTER HILLS KIDDIE ACADEMY
3309	BURCH, CHARLES
	MAYO, GARY L
	STEGG, GARY
3421	ZELENAK, PAUL
3475	JANISZEWSKI, ARTHUR G
3495	CULLEN, JOSEPH C
3514	MEYER, MOLLIE L
3535	ZORN, DONALD D
3555	OCCUPANT UNKNOWNN
3580	BREAULT, WILLIAM
3609	BROADHEAD, WAYNE
3610	INGRAM, STEVEN L
3651	OCCUPANT UNKNOWNN
3671	ELKINS, TERRY
3674	OCCUPANT UNKNOWNN
3682	BETZ, JOEL P
3691	A A HTG&SEWER
	A A SWR PLMBG&SPTC
	LOCKHART, LOWELL
	MI DISPOSAL SERVCE
3700	JORDAN, CAROL
3712	LAZAREVICH, ROBERT R
3742	MARCELLA, JOSEPH

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	S LIVERNOIS RD	1992	
3300	RH CHRISTIN SCHLS ROCH HILLS BAPT CH		
	ROCH HLS CHRSTN SC ROCH HLS KTY ACDY		
3309	MAYO, GARY L STOCCO, C TRAXLER, LEE		
3475	JANISZEWSKI, ARTHUR G		
3495	CULLEN, JOSEPH C		
3514	MEYER, GORDON J		
3535	ZORN, DONALD D		
3555	MCGLYNN, PATRICK J		
3580	BREAULT, WILLIAM		
3609	BROADHEAD, WAYNE		
3674	BAKER, FRANK A		
3682	BETZ, JOEL P		
3691	A A HTG&SEWER		
	A A SWR PLMBG&SPTC		
	MI DISPOSAL SERV		
	MI DISPOSAL SERVCE		
3712	LAZAREVICH, ROBERT R		
3742	MARCELLA, JOSEPH		

	LIVE			
1800	BROO ELEC ELEC	KS&ASSOTRO-MEO	SKTG CTR DCS CHNL PRD RE PRDCT ATES	6513031 16562908 -6562722 16562800 16561664
	CLYD	E CORPO	DRATION	-6512900
2130 2131 2170 2171	ALFR GERA DELM ANTH KENN ALFR JOHN JOSE	RD VANI ON BAR ONY O I	ILL HUYSSE TLEY JR BONACCI BRUSSEAU ONE TRICH ENTLE	16518954 6514435
2330	P EI ERNE LOUI	SENBERG ST F S S W BEI	BOREO	8 6513470 5 6519562 6510696 6510035
2440	ADOL OAKL JAME CHRI	HIGHLEN F KIPPI AND TRI S A MCM S CHAMI	N ER EE SERV WILLAN BO	6524078 8521498 8522550 6 8527548 8521297 8521267
2816 2840		N PIER	SON	8522488 0 8527919
2880	MARK	ARNDT	RSON	п8525704 6 8526169
2886 2926 3081 3111 3131 3153 3171 3193	T A TRUD EDGA DAVI CARL THEO	IAM R I ROSE Y THOMI R RUSSI D A KL HARLAI DORE B	PSON ELL EVE N ATCHELOR	8524938 0 8528383 118536293 118533498 6 8535148 8525928 8523596
3249 3271 3300	ALES ROCH ROCH RCH P BE	S J FRASIO MUS HILLS HLS CI HLS KI	ATIES SCAT BAPT CH HRSTN SC DDIE ACD	8520878 8 8520788 8520588 8520588 8520588 8520588 8527638
3421 3475 3495 3514	ARTH DR J GORD	G JAN	NP ISZEWSKI C CULLEN	#8523824 8520148 8524514 8524514
3610 3651 3671 3674 3682 3691	DONA PATR WM L LAWR VICK L D CLIN FRAN JOEL	LD D ZO ICK J I STROCK ENCE R I GALLO SANTER TON WA K A BA P BET ELCTRC ELCTRC	MCGLYNN HSCHEIN SCHULTZ OWAY INI RREN KER	8524907 1 8526754 8520928 1 8528453 8522247 18526819 8521893 8521893 8526568 8522240

Bresser's Cross-Index Directory

S LIVERNOIS RD

1988

ROCHESTER	1987-1988
3691*MI DISPOSAL SERVCE *MI DISPOSAL SERVCE *MI DISPOSAL SERVCE *MI DISPOSAL SERVCE *MI DISPOSAL SERVCE 3712 ROBT R LARAREVICH	6628665 6626695
3742 JOSEPH MARCELLA 3801 RICHARD HANRAHAN 3803 NP 3821 JAMES H ANGUS	8 8526470 5 8532382 8523893
3835 SAMUEL W GOLDSMITH 3875 FLOYD L COBB JR 3911 VICTOR B CAMP 3967*LOYAL ORDER MOOSE	8521194 8522416 8524090
*LOYAL ORDER MOOSE 3976*STILES ELEMENTARY 182 RESIDENCE 115	8524090 8521600 BUSINESS
LOCKMOORE	ROCH PO
500 700 T 10900	48063

S LIVERNOIS RD	1983
2370 ERNEST F STIEVE 2371 LOUIS W BERKLICH 2372 2400 NP	6510696 7 6510035
2440 8 L HIGHLEN 2525 ADOLF KIPPER *OAKLAND TREE SERV	4 6524075 8521495 8522550
2535 JAMES A MCMILLAN 2550 CHRIS CHAM80 2555 DANIEL E MCDONALD	8525124 8521297 8521261
2638 NP 2816 GLYNN PIERSON	8522485
2860 JOHN E OWEN	0 8527919 9 8527166 8 8528265
	18534174 2 8520076
2926 WILLIAM R RAY 3081 T A ROSE 3111 3131 NP	8524938 0 8528382
3153 CARL HARLAN 3171 THEODORE BATCHELOR 3193 NP	8525928 8523596
3239 C KORTAS 3249 JAMES J FRATIES	1 8525933 6 8520875 8 8520789
3300*ROCH HILLS BAPT CH *ROCH HLS CHRSTN SC *ROCH HL KIDDIE ACY	8520585 8520585
3309 C GROTH	#8526208 6 8527639
3495*DR JOSEPH C CULLEN	¤8536154 8520148
3514 GORDON J MEYER M L MEYER 3535 DONALD D ZORN	8524514 8524514 7 8524907
3555 PATRICK J MCGLYNN 3580 WM L STROCHSCHEIN 3609 LAWRENCE R SCHULTZ	1 8526754 7 8520928 1 8528453
3610 THOMAS GALLOWAY 3651 MONTY OLMSTEAD 3671 CLINTON WARREN 3674 FRANK A BAKER 3682 DALE J EKSTROM	8522247 ¤8535032
3674 FRANK A BAKER 3682 DALE J EKSTROM	5 8526081 5 8529584
3691*A A HEATING&SEWER *MICHIGAN DISPOSAL *A A HEATING&SEWER	-3347561
*A EXCAVATING&SEWER *A SOFTWARE CO *A A ELECTRC SEWER	-3347561 13347561 -6526565
*A A ELCTRC SWR&STG *A A SWR PLMBG&HTNG LOWELL LOCKHART	-8522240 ¤3347561 -8527806
SIDNEY LOCKHART *MI DISPOSAL SERVCE *MI DISPOSAL SERVCE	-8522240 -6526565 -6526595
*MI DISPOSAL SERVCE *MI DISPOSAL SERVCE	-8522242 -6252178
3742 JOSEPH MARCELLA 8 3803 JOHN E ANGUS	8524733 8526470 8521573
3821 JAMES H ANGUS 3835 NP 3B75 FLOYD L CO8B JR	8523893 8521194
3911 VICTOR B CAMP 3967*LOYAL ORDER MOOSE *LOYAL ORDR MOOSE	8522416 8524090 8524090
3976*ASD PSYCHOLOGIST *STILES ELEMENTARY 189 RESIDENCE 90	8522295 8521600 BUSINESS
LOCKMOORE	ROCH PO

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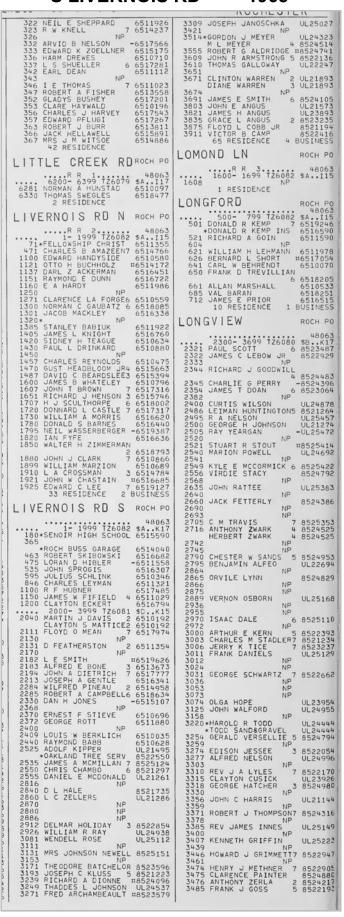
Bresser's Cross-Index Directory

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7	3239	E SDULE	2	8522803
5	3249	DAVID LEITZ	9	8525786
l	3271	ALEX ROWEN	9	8525715
5	3309	JOSEPH JANOS	5CHKA	UL25027
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3		M L MEYER	4	8524514
7	3555	PETER M CDLL		8523327
4	3609	JOHN R ARMST	The state of the s	8522136
7	3610	THOMAS GALLE		UL22247
7	3651	J K HANNA		8522704
	3671	CLINTON WARF		UL21893
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כ	3691	JAMES E SMIT		8525714
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3	3821	JAMES H ANGL		8523893
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3 1 3	DETROIT	01.1			00 PONTIAC RD SOUT SOUTH BLVD	н	
212	NEWS AGENCY PALMER JAMES H		6675	10 **	SOUTH BLVD		
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	MICHALKA AL		0886	475	SKIBOWSKI ROBT		6682
	SHEPPARD N E		2881		SPROGIS JOHN		5380
			6497		SCHLINK JULIUS		0346
	SARGEANT G F		4356		HUBNER F H	OL2	7491
	ZOELLNER E K		2616			OLI	6794
336	DREWES HARM	OLZ	1471	1271	HAWKINS WILLIAM	OLI	7151
337	CASEY H J	OLI	3366	2040	DAVIS M J	OLI	0192
3 4 3	SARGENT FRANK	OL2	2551	2040	MATTICE C S	OLI	0192
3 4 6	THOMAS IDA	OL2	1472		HILL EDWARD	OL1	0688
3 4 7	FISHER R A	OL2			HARRIS DONALD	OL6	1931
	HAYWALD CLARE				RALPH V J		1408
356	HARVEY C J	OL2			GOOLEY E J		2171
	PFLUGI EDWARD				GENTLE JOSEPH A		1404
	BROWN LOIS	OLI	7202		PENEAU WILFRED		1407.
3 6 3	SCHLUCHTER				ARFT E W		1435
	J W MRS				STIEVE ERNEST F		0696
					ROTT GEORGE		3300
3 6 7	WITSOE J M MRS	OLI	4886		HENRY THOMAS	OLI	0606
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	ESTER				ROSE WENDELL		0543
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AVON	TWP			J	FRANCIS	OL1	0170
	00 PONTIAC RD NORTH	н		3131	NEWELL J R		0533
	JTTON RD				RATHKA ANNA		8314
					BATCHELOR THEO		0742
7.1	LUCAS EARLINE	OLI	5 0 2 1		BALL CLARENCE E		0290
	HANDYSIDE				JOHNSON WILBURN		0255
	EDWARD	OLI	0580		JOHNSON T L		0280
1151	WALKER JACK		6557		EVANS BLISS		1766
1250	HAZEN WM J	OL1	6310	3309	JANOSCHKA		
1300	ROSEGART CHARLES	OL1	1795		JOSEPH	OL1	0480
1301	MACKLEY JACOB	OLI	6338	3 4 2 1	BATTEN EDWARD	FE2	9821
1 4 0 5	KNIGHT JAMES L	OLI	6760	3555	ASHBAUGH		
	TEAGUE SIDNEY H	OLI	0634		GRAYCE	OLI	0433
	PAPKE LESTER	OL1	6410	3609	CONGER MAYNARD		0633
	COLLEY LLOYD C		6538		GALLOWAY THOS		0038
	WHATELEY JAS B	OLI	0796		OFFERMAN JOHN		0484
1607	VON TOBEL				HAYES CLABURN W	FE5	0803
	FRED E		6540		MINER THEADORE		0109
1651		OL1	6630	3803	ANGUS J E	OL 1	0190
	DAVIS K O		6530	3821			
	HUGHES ALLAN		6358	-	JAMES H		0744
1730	MORRIS WM A	OL1	6620	3875	COBB FLOYD JR		8885
	BARNES DONALD S						0741
			6550		BAKER LUMBER CO		1060
			6359	3976	STILES SCHOOL	FE2	9096
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					MILLERIS GROC		9 4 5 1
			0624		CHOVANEC SADIE		0908
		OLI	0273		DIBBLE ROBERT		1217
5935	STIER L W			6903	RAPER FRED	OLI	6574
5 9 3 5 5 8 8 0	STIER L W BECKER CHAS C	OLI	6745				
5 9 3 5 5 8 8 0 5 6 8 0	STIER L W BECKER CHAS C DORST C L	OL1	0546	6898	MOULIS EDWARD		6587
5 9 3 5 5 8 8 0 5 6 8 0 5 6 6 0	STIER L W BECKER CHAS C DORST C L JOUPP ARVID L	OL1 OL1	0546 0134	6898 6839	MOULIS EDWARD SUN PIPE LINE CO	FE5	7212
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5 9 3 5 5 8 8 0 5 6 8 0 5 6 6 0 5 6 2 1	STIER L W BECKER CHAS C DORST C L JOUPP ARVID L PATERSON JANET	OL1 OL1	0546 0134	6898 6839 6814 6811	MOULIS EDWARD SUN PIPE LINE CO HOLLOWAY LAURA	FE5 FE4 FE5	7 2 1 2 7 5 2 7
5 9 3 5 5 8 8 0 5 6 8 0 5 6 6 0 5 6 2 1	STIER L W BECKER CHAS C DORST C L JOUPP ARVID L PATERSON JANET	OL1 OL1	0546 0134	6 8 9 8 6 8 3 9 6 8 1 4 6 8 1 1 6 8 1 1	MOULIS EDWARD SUN PIPE LINE CO HOLLOWAY LAURA CAGNON EUGENE MIHALKO JOHN SHOOK M KEITH	FE5 FE5 FE4	7212 7527 2083
5 9 3 5 5 8 8 0 5 6 8 0 5 6 6 0 5 6 2 1	STIER L W BECKER CHAS C DORST C L JOUPP ARVID L PATERSON JANET	OL1 OL1	0546 0134	6 8 9 8 6 8 3 9 6 8 1 4 6 8 1 1 6 7 9 1 6 7 3 1	MOULIS EDWARD SUN PIPE LINE CO HOLLOWAY LAURA CAGNON EUGENE MIHALKO JOHN' SHOOK M KEITH JONES JOSEPH R	FE5 FE4 FE5 FE4 FE5	7212 7527 2083 1861 1872
5 9 3 5 5 8 8 0 5 6 8 0 5 6 6 0 5 6 2 1	STIER L W BECKER CHAS C DORST C L JOUPP ARVID L PATERSON JANET CRNOIS RD S HESTER	OL1 OL1	0546 0134	6 8 9 8 6 8 3 9 6 8 1 4 6 8 1 1 6 7 9 1 6 7 3 1	MOULIS EDWARD SUN PIPE LINE CO HOLLOWAY LAURA CAGNON EUGENE MIHALKO JOHN SHOOK M KEITH	FE5 FE4 FE5 FE4 FE5	7212 7527 2083 1861

3514 S Livernois 3514 S Livernois Rochester, MI 48309

Inquiry Number: 7486636.4

November 01, 2023

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

Site Name: Client Name:

3514 S Livernois Applied Science & Technology 3514 S Livernois 10448 Citation Drive Rochester, MI 48309 Brighton, MI 48116

EDR Inquiry # 7486636.4 Contact: Aliya Spotts



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Applied Science & Technology were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Resi	ults:	Coordinates:			
P.O.#	NA	Latitude:	42.628571 42° 37' 43" North		
Project:	11482-64	Longitude:	-83.152811 -83° 9' 10" West		
-		UTM Zone:	Zone 17 North		
		UTM X Meters:	323471.18		
		UTM Y Meters:	4721816.15		
		Elevation:	810.26' above sea level		

Maps Provided:

2019 1945, 1946 2017 1936 2014 1908 1997 1980, 1981, 1983 1973 1968 1952

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets



Rochester 2019 7.5-minute, 24000



Birmingham 2019 7.5-minute, 24000



Utica 2019 7.5-minute, 24000



Warren 2019 7.5-minute, 24000

2017 Source Sheets



Rochester 2017 7.5-minute, 24000



Birmingham 2017 7.5-minute, 24000



Utica 2017 7.5-minute, 24000



Warren 2017 7.5-minute, 24000

2014 Source Sheets



Rochester 2014 7.5-minute, 24000



Birmingham 2014 7.5-minute, 24000



Utica 2014 7.5-minute, 24000



Warren 2014 7.5-minute, 24000

1997 Source Sheets



Rochester 1997 7.5-minute, 24000 Aerial Photo Revised 1997

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1980, 1981, 1983 Source Sheets



Warren 1980 7.5-minute, 24000 Aerial Photo Revised 1978



Rochester 1981 7.5-minute, 24000 Aerial Photo Revised 1981



Birmingham 1981 7.5-minute, 24000 Aerial Photo Revised 1981



Utica 1983 7.5-minute, 24000 Aerial Photo Revised 1982

1973 Source Sheets



Rochester 1973 7.5-minute, 24000 Aerial Photo Revised 1973



Utica 1973 7.5-minute, 24000 Aerial Photo Revised 1973



Birmingham 1973 7.5-minute, 24000 Aerial Photo Revised 1973



Warren 1973 7.5-minute, 24000 Aerial Photo Revised 1973

1968 Source Sheets



Birmingham 1968 7.5-minute, 24000 Aerial Photo Revised 1967



Utica 1968 7.5-minute, 24000 Aerial Photo Revised 1967



Rochester 1968 7.5-minute, 24000 Aerial Photo Revised 1967



Warren 1968 7.5-minute, 24000 Aerial Photo Revised 1967

1952 Source Sheets



Birmingham 1952 7.5-minute, 24000



Rochester 1952 7.5-minute, 24000



Warren 1952 7.5-minute, 24000



Utica 1952 7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1945, 1946 Source Sheets



Birmingham 1945 7.5-minute, 24000



Rochester 1945 7.5-minute, 24000



Utica 1946 7.5-minute, 24000



Warren 1946 7.5-minute, 24000

1936 Source Sheets



Warren 1936 7.5-minute, 31680



Birmingham 1936 7.5-minute, 31680

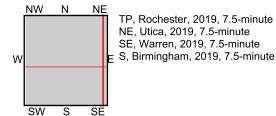


Rochester 1936 7.5-minute, 31680

1908 Source Sheets



Rochester 1908 15-minute, 62500



This report includes information from the

following map sheet(s).

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0 Miles

Rochester, MI 48309

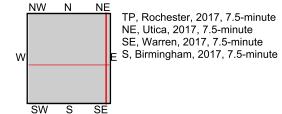
CLIENT: Applied Science & Technology

0.5



1.5

This report includes information from the following map sheet(s).



W SQUARE LAKE RD

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SITE NAME: 3514 S Livernois ADDRESS: 3514 S Livernois

Rochester, MI 48309

CLIENT: Applied Science & Technology

1.5

This report includes information from the following map sheet(s).

SW

S

NW N NE
TP, Rochester, 2014, 7.5-minute
NE, Utica, 2014, 7.5-minute
SE, Warren, 2014, 7.5-minute
S, Birmingham, 2014, 7.5-minute

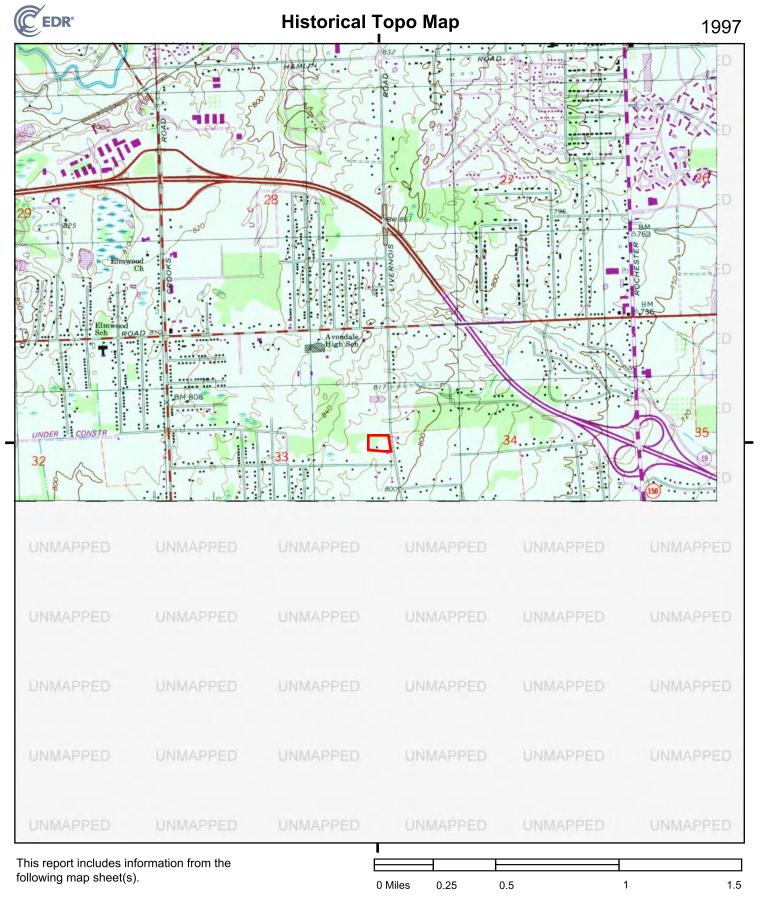
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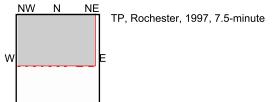
SITE NAME: 3514 S Livernois ADDRESS: 3514 S Livernois

Rochester, MI 48309

CLIENT: Applied Science & Technology

Union Cem



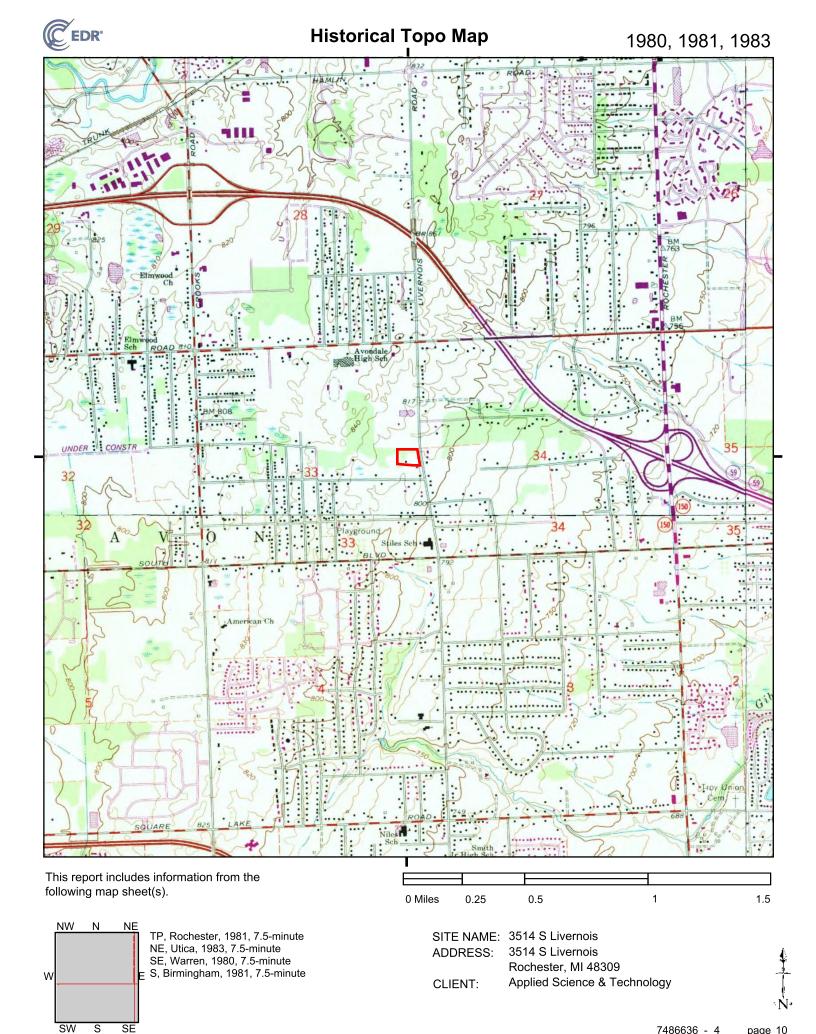


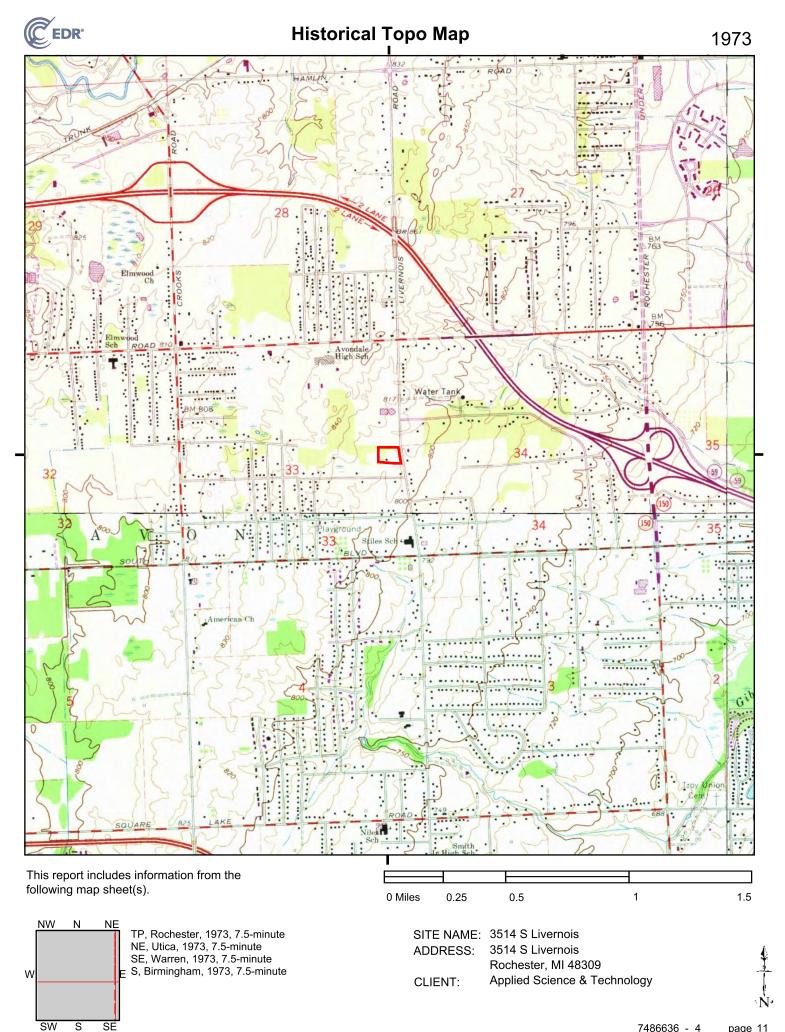
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Rochester, MI 48309

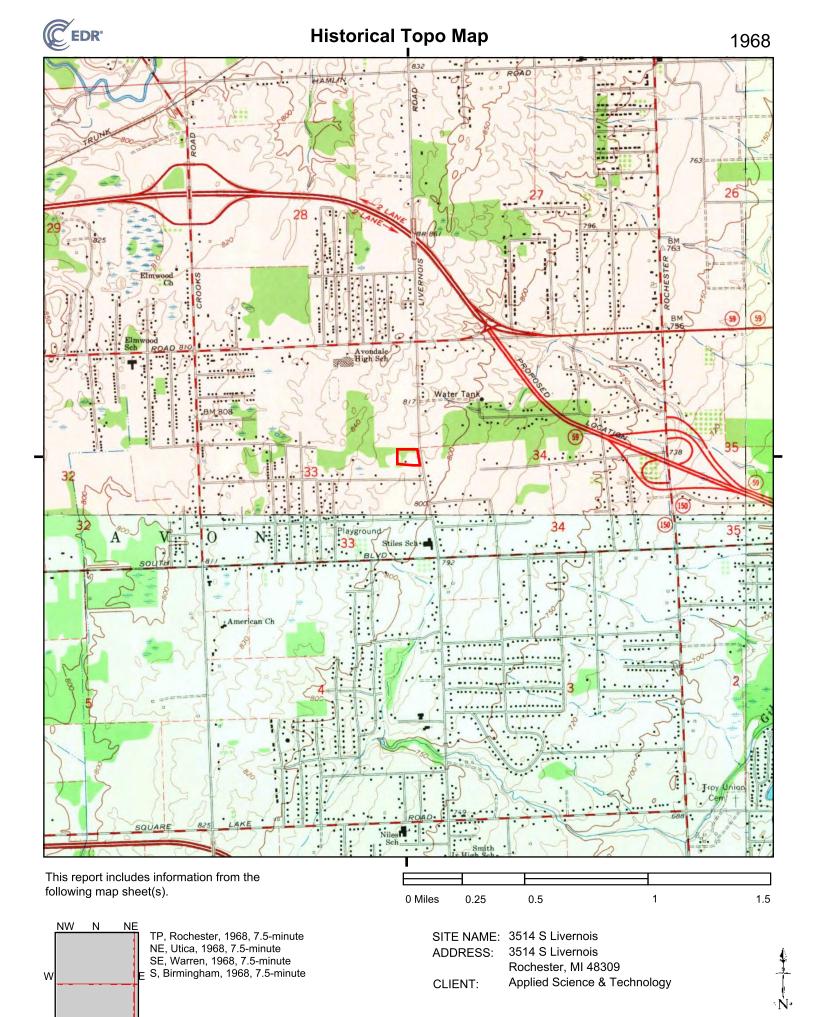
CLIENT: Applied Science & Technology



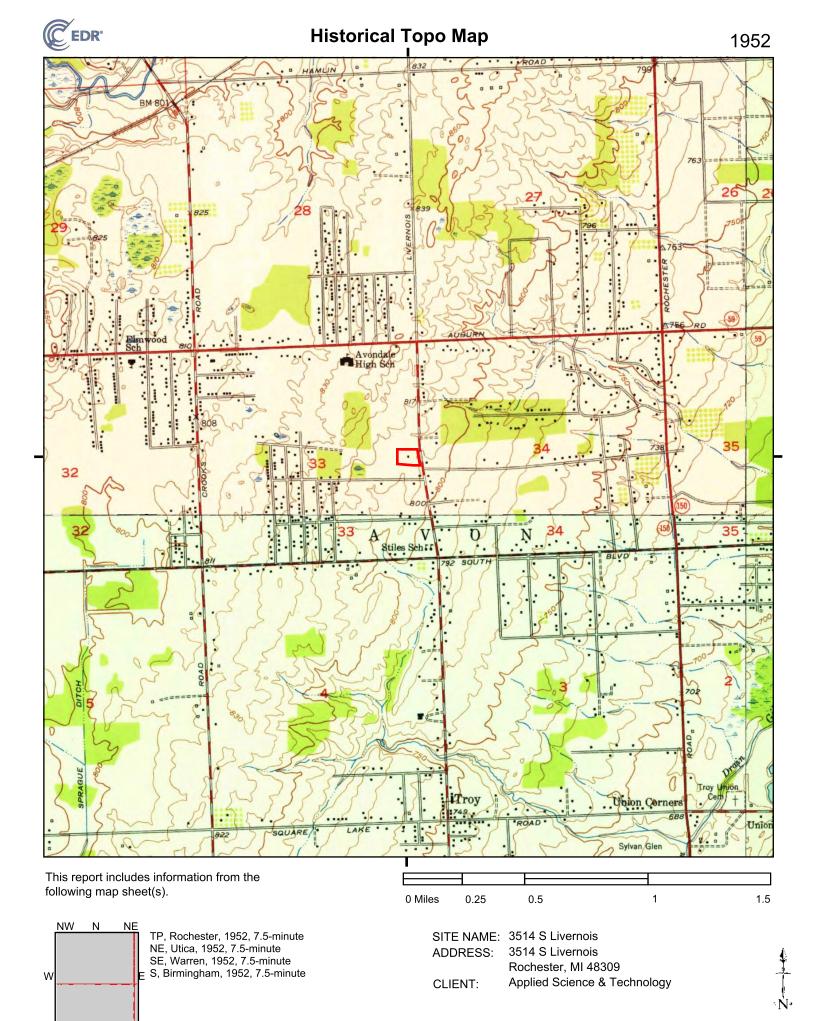




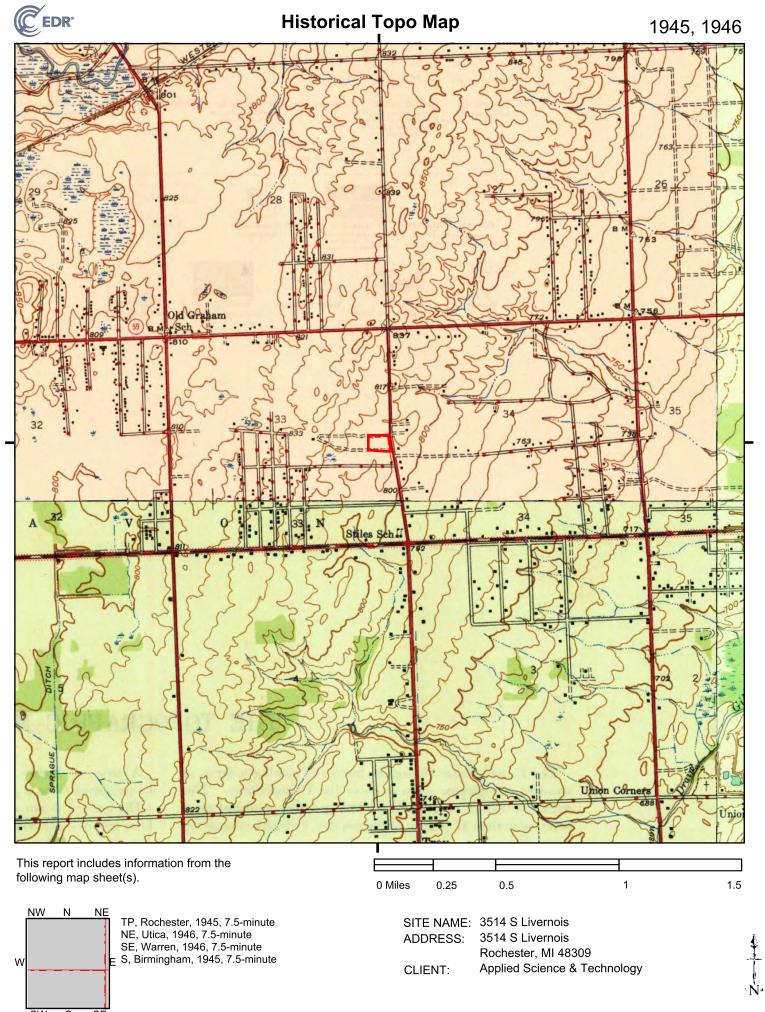
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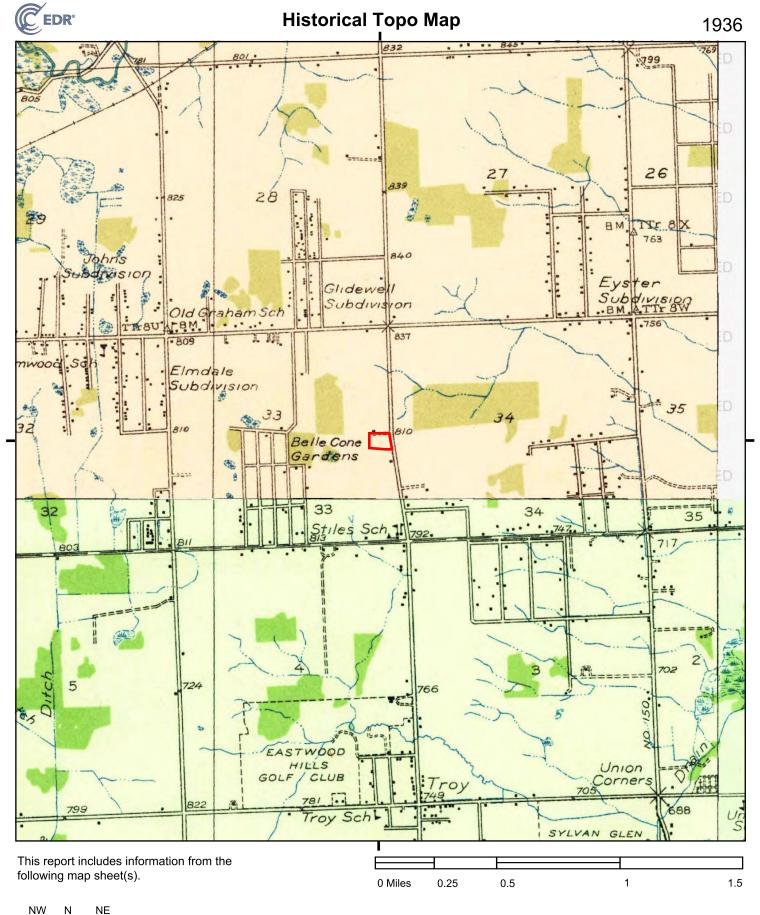


SW



SW





SE, Warren, 1936, 7.5-minute S, Birmingham, 1936, 7.5-minute

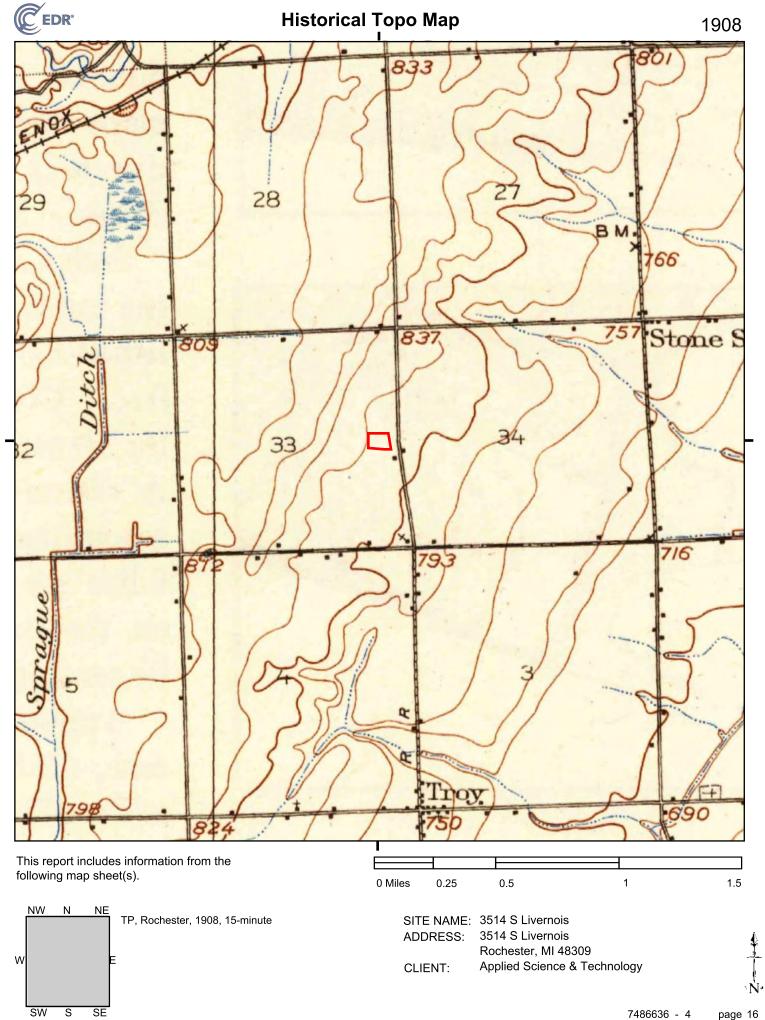
SW

TP, Rochester, 1936, 7.5-minute

SITE NAME: 3514 S Livernois ADDRESS: 3514 S Livernois

Rochester, MI 48309

CLIENT: Applied Science & Technology



APPENDIX F

QualificationsResumes







KATE YOUNG
Associate II

PROFILE

Certifications
40-Hour OSHA HAZWOPER Training
Texas Air Quality Construction Permitting, September 2011
Hazcom Standard- GHS Update for Manager, September 2013
Clean Air Act Training, September 2011

Education

Texas A&M University, B.S., 2003, Rangeland Ecology and Management, Minor, Geology

Experience History

Associate II, Property Service Group, ASTI Environmental Senior Environmental Engineer; Lockheed Martin Missiles and Fire Control Environmental Engineer, Lockheed Martin Aeronautics Staff Scientist, ATC Associates

Professional Memberships
Society of Wetland Scientists
Michigan Wetlands Association

Professional Background

Ms. Young specializes in Phase I Environmental Site Assessments (ESAs). She has completed ESAs for residential, commercial, and industrial sites. She has experience working in Michigan, Texas, Oklahoma, Arkansas, Missouri, and Louisiana. Project work has included vacant land, apartment complexes, residential lots, commercial properties, and industrial buildings. Experience with evaluations include site inspections and historical research. Ms. Young also has experience assisting with Phase II ESA soil sample investigations, performing air sampling and monitoring, and mold sampling as well as dry cleaner audits.

Years' Experience: 1—ASTI ENVIRONMENTAL 8—other firms, government

PHASE I ENVIRONMENTAL ASSESSMENTS

Manages projects and conducted environmental site assessments (ESAs) throughout the states of Michigan, Texas, Oklahoma, Arkansas, Louisiana, and Missouri, for a variety of projects (dry cleaners, retail strip centers, commercial properties, industrial facilities, vacant land, distribution centers, and multifamily residential properties) to determine environmental condition of sites for real estate transactions and remediation activities. Responsibilities included preparation and peer review of ASTM (and limited Non-ASTM) Phase I ESAs and desktop reviews (ERRs).

MOLD AND IAQ INVESTIGATIONS

Assisted numerous clients with the evaluation of indoor air quality concerns and mold in office spaces, call centers, banks, multi-family residential properties, and hotels in Texas, Oklahoma, and Arkansas.

INDUSTRIAL COMPLAICE AUDITS FOR DRY CLEANER FACILITIES

Completed audits in Texas and Oklahoma that are designed to determine how well a particular dry-cleaning facility is following the recommended practices for the use of particular dry cleaning solvents that they are using. The audits also determine the likelihood of a major environmental impact to the site where the facility is located. Included in these audits are interviews with the facility owner/operator and their employees, a survey of the site conditions and status of the equipment and supplies stored on site, a review of the facility's records to ensure an understanding of record keeping procedures and to establish a "track record" of proper solvent and waste handling procedures, and a review of dry cleaning solvent purchasing and use records to determine if there are any anomalous records that may indicate a chronic or catastrophic release of dry cleaning solvent.







ANTHONY LLOYD SPENCER Environmental Professional

PROFILE

<u>Certifications</u> Environmental Professional (AAI) HAZWOPER Certification and 8 Hour Refresher

Education

Wayne State University, B.S., 2011, Environmental Science, Minor, Geology

Experience History

Environmental Professional, Property Service Group, ASTI ENVIRONMENTAL Research Assistant, Ohio State University, School of Environment and Natural Resources Research Assistant, Wayne State University, Department of Biology

Professional Background

Mr. Spencer specializes in Phase I Environmental Site Assessments (ESAs). He has completed ESAs for residential, commercial, and industrial sites. He has experience working in Michigan, Ohio, Kentucky, Oklahoma, Pennsylvania, and North Carolina. Work has included vacant land, apartment complexes, residential scattered lots, former plating facilities, print shops, landfills, auto garages, gasoline stations, and schools. The property evaluations have included site inspections; historical research; and contact with federal, state, and local agencies. Mr. Spencer also has experience assisting with Phase II ESA sampling and report preparation, noise assessments, NEPA reporting, HUD narratives, and SHPO consultation. Mr. Spencer has also conducted tree identification and timber cruising for the U.S. Fish & Wildlife Service in Michigan's Upper Peninsula.

Years' Experience: 11—ASTI ENVIRONMENTAL 2— other firms

PHASE I ESA PROJECTS

Detroit, MI

Conducted a Phase I ESA on land containing an apartment building that resulted in the identification and closure of an abandoned underground storage tank.

Warren, MI

Conducted a Phase I ESA on a coil wire plant, including file review of a former underground storage tank, inspection of heat-treating ovens and acid wash tanks, and interviews with key site managers.

Madison Heights, MI

Conducted a Phase I ESA on a metal stamping plant, including file review of previous subsurface investigations and inspection of metal working areas.

Boyne City, MI

Conducted a Phase I ESA on a marina, including file review of a former underground storage tank and inspection of the current fuel system and service areas.

PHASE II ESA PROJECTS

Detroit, MI

Conducted a Phase II ESA on a mixed-use site, including scope of work development, geophysical survey, and soil sampling.

Marshall, MI

Conducted a Phase II ESA on a commercial site, including scope of work development, managing field staff, identified and oversaw the closure of an orphaned underground storage tank, and prepared a Baseline Environmental Assessment, Due Care Plan, and Tank Closure Report.

Pontiac, MI

Conducted a Phase II ESA on a commercial site, including scope of work development and soil and groundwater sampling.

Detroit, MI

Conducted a Phase II ESA on a residential site, including scope of work development, vapor pin installation, and soil and soil gas sampling.

Oakland County, MI

Assisted in the collection of samples from 24 sewer manholes, along with influent sources, effluent sources, biosolids, biosolids cake filtrate, and sludge digestor supernatant in order to investigate potential sources of PFAS impacts to the sanitary system effluent for the Oakland County Water Resources Commission.



APPENDIX G

Additional Records

No additional records were obtained for this assessment



Description of Landowner Liability Protections for All Appropriate Inquiry and User Continuing Obligations

In order to maintain a LLP, landowners must also comply with pre-acquisition and post-acquisition requirements under CERCLA and All Appropriate Inquiry. A summary of each LLP is provided below.

Innocent Landowner Defense (ILO): The defendant did not know and had no reason to know of the hazardous substance with respect to the Subject Property and must show that All Appropriate Inquiries into the past ownership and uses of the property in accordance with generally good commercial and customary standards and practices. All Appropriate Inquiries cannot result in knowledge of contamination.

Post- Acquisition Obligations

- 1. Cooperate, assist, and provide access to persons that are authorized to conduct response actions or natural resource restoration at the property.
- 2. Comply with any land use restrictions established or relied on in connection with the response action at a vessel or facility.
- 3. Must not impede on the effectiveness or integrity of any institutional control employed at the vessel or facility in connection with a response action.
- 4. Take reasonable steps to 1) stop any continuing release, 2) prevent any threatened future release, and 3) prevent or limit any human, environmental, or natural resources exposure to any previously released hazardous substance.

Bona Fide Prospective Purchaser (BFPP): Allows a purchaser to acquire a property with knowledge that it is contaminated. This applies to purchasers (and their tenants) that acquire ownership of a facility after January 11, 2002. To qualify, prior to acquiring title, a person must show 1) that all disposal of hazardous substances at the facility occurred before the person acquired the facility, 2) conducted All Appropriate Inquiry, and 3) the person is not a Potentially Responsible Party (PRP) or affiliated with any other PRP for the property through any direct or indirect familial relationship, any contractual, corporate or financial relationship or as a result of a reorganization of a business entity that was a PRP.

Post- Acquisition Obligations

- 1. Provide all legally required notices with respect to the discovery or release of any hazardous substances at the facility.
- 2. Exercise appropriate care with respect to hazardous substances by taking reasonable steps to stop any continuing release; prevent any threatened future release; and prevent or limit human, environmental, or natural resource exposure to any previously released hazardous substance.
- 3. Provide full cooperation, assistance, and access to persons who are authorized to conduct response actions or natural resource restoration (including the cooperation and access necessary for the installation, integrity, and maintenance of any complete or partial response actions or natural resource restoration).
- 4. Comply with any land use restrictions established or relied on in connection with the response action, and not impede the effectiveness or integrity of any institutional control employed at the vessel or facility in connection with a response action.
- 5. Comply with any request for information or administrative subpoena issues under CERCLA.



Explanation of LLPs and User Continuing Obligations Continued

Contiguous Property Owner (CPO): A CPO must not know or have reason to know following performance of All Appropriate Inquiries that their property was or could be contaminated by the adjacent or contiguous real property. The property owner must show that they did not cause, contribute, or consent to the release and is not a PRP or affiliated with any other PRP, and conducted All Appropriate Inquiries.

Post- Acquisition Obligations

- 1. Take reasonable steps to 1) stop any continuing release, 2) prevent any threatened future release, and 3) prevent or limit any human, environmental, or natural resources exposure to any previously released hazardous substance.
- 2. Provide full cooperation, assistance, and access to persons who are authorized to conduct response actions or natural resource restoration (including the cooperation and access necessary for the installation, integrity, and maintenance of any complete or partial response actions or natural resource restoration).
- 3. Comply with any land use restrictions established or relied on in connection with the response action at the facility.
- 4. Not impede the effectiveness or integrity of any intuitional control employed in connection with a response action.
- 5. Comply with any request for information or administrative subpoena issues under CERCLA.
- 6. Provide all legally required notices with respect to the discovery or release of any hazardous substances at the facility.



ASTI ENVIRONMENTAL

ENVIRONMENTAL INVESTIGATION, REMEDIATION, COMPLIANCE AND RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.

OUR SERVICES INCLUDE:

- ASBESTOS, LEAD, MOLD, AND RADON ASSESSMENTS
- BROWNFIELD/GREYFIELD REDEVELOPMENT ASSISTANCE
- DEVELOPMENT INCENTIVES AND GRANT MANAGEMENT
- ECOLOGICAL ASSESSMENTS AND RESTORATION
- ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS
- ENVIRONMENTAL OPPORTUNITIES ASSESSMENT
- GIS MAPPING
- HAZARD MITIGATION PLANNING
- MINING AND RECLAMATION ASSISTANCE
- REMEDIATION IMPLEMENTATION, OPERATION AND MAINTENANCE
- Phase I ESA and Environmental Due Diligence Assessments
- REGULATORY COMPLIANCE AND PERMITTING
- Soil and Groundwater Assessments
- SOIL AND GROUNDWATER REMEDIATION
- STORAGE TANK COMPLIANCE AND CLOSURE
- THREATENED AND ENDANGERED SPECIES SURVEYS
- WATERSHED AND STORMWATER MANAGEMENT PROGRAMS
- WETLAND DELINEATION, PERMITTING, MITIGATION AND BANKING

