

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

		PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L								
		62	1,200	5	700	3,500	20	100	1,000	10,000
		Sample Parameters								
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes
MW-1	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	2.40	<2.00	<2.00	<6.00
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.18	<2.00	<2.00	<6.00
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	4.89	<2.00	<2.00	<6.00
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.23	<2.00	<2.00	<6.00
	9/20/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	MW-1BR	11/25/2016	55.7	12.4	376	38.8	5.36	13.9	6.72	27.4
1/12/2017		24.0	10.9	523	4.34	6.64	6.42	17.5	13.3	35.5
5/1/2017		6.21	<2.00	84.4	3.48	<2.00	<2.00	2.28	4.47	14.5
8/14/2017		2.10	<2.00	106	7.55	<2.00	2.62	<2.00	3.27	<6.00
9/21/2017		2.72	<2.00	73.8	7.11	2.04	2.56	2.45	<2.00	<6.00
3/21/2018		2	<2.00	102	4.01	<2.00	<2.00	<2.00	<2.00	<6.00
5/25/2018		24.8	<2.00	226	47.7	6.23	<2.00	7.95	2.37	10.2
1/25/2019		<2.00	<2.00	28.8	2.80	<2.00	<2.00	<2.00	<2.00	<6.00
MW-2		7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	9.77	<2.00	<2.00
	8/18/2016	<2.00	<2.00	2.86	<2.00	<2.00	11.3	<2.00	<2.00	<6.00
	10/4/2016	<2.00	<2.00	14.5	4.84	<2.00	9.73	<2.00	<2.00	<6.00
	10/31/2016	6.84	<2.00	49.00	13.3	<2.00	<2.00	<2.00	13.00	43.8
	1/12/2017	183	47.8	1,170	245	19.8	15.4	47.4	1,760	1,150
	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/14/2017	858	346	703	505	83.3	10.4	274	927	2,310
	9/20/2017	1,030	358	779	522	74.4	<10.0	297	1,090	2,510
	5/25/2018	2,740	754	2,390	1,900	<2.00	<2.00	473	9,540	13,600
	MW-2BR	11/25/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1/12/2017		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
5/1/2017		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
8/14/2017		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
9/21/2017		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
5/25/2018		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
1/25/2019		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-3	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	4.76	<2.00	<2.00	<6.00
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	6.35	<2.00	<2.00	<6.00
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	5.92	<2.00	<2.00	<6.00
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	6.96	<2.00	<2.00	<6.00
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	3.01	<2.00	<2.00	<6.00
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-3BR	11/25/2016	<2.00	<2.00	2.74	<2.00	<2.00	11.2	<2.00	<2.00	<6.00
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	3.18	<2.00	<2.00	<6.00
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	5.67	<2.00	<2.00	<6.00
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	9.46	<2.00	<2.00	<6.00
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	8.08	<2.00	<2.00	<6.00
	3/21/2018	<2.00	<2.00	<2.00	<2.00	<2.00	2.98	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	3.11	<2.00	<2.00	<6.00
	1/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	3.26	<2.00	<2.00	<6.00

Table 4 (Updated)

GROUNDWATER SAMPLE ANALYTICAL SUMMARY

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L										
		62	1,200	5	700	3,500	20	100	1,000	10,000
Sample Parameters										
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes
MW-4	7/27/2016	<2.00	<2.00	28.7	5.20	<2.00	22.2	<2.00	17.7	21.1
	8/18/2016	<2.00	<2.00	18.2	<2.00	<2.00	18.0	<2.00	<2.00	<6.00
	10/4/2016	<2.00	<2.00	57.0	5.19	<2.00	18.9	<2.00	<2.00	7.42
	10/31/2016	17.8	6.1	25.2	36.3	<2.00	8.7	<2.00	48.2	202
	1/12/2017	61.8	21.0	145	112	6.88	14.6	13.9	12.5	214
	5/1/2017	52.0	26.1	202	174	13.2	17.4	22.1	3.22	107
	8/14/2017	41.3	<2.00	162	195	17.4	6.43	35.4	<2.00	<6.00
	9/21/2017	<2.00	<2.00	16.0	10.8	<2.00	<2.00	<2.00	<2.00	<6.00
	3/21/2018	90.2	15.4	131	106	5.09	<2.00	18.7	10.7	205
	5/25/2018	4.55	2.63	53.4	2.91	<2.00	9.67	2.43	<2.00	43.3
	1/24/2019	39.9	2.41	66.5	12.8	3.56	6.85	7.56	<2.00	17.4

GROUNDWATER SAMPLE ANALYTICAL SUMMARY

PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L								
62	1,200	5	700	3,500	20	100	1,000	10,000
Sample Parameters								

[illegible]

Table 4 (Updated)

GROUNDWATER SAMPLE ANALYTICAL SUMMARY

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L										
		62	1,200	5	700	3,500	20	100	1,000	10,000
Sample Parameters										
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes
MW-9	4/17/2017	93.4	29.3	89.6	43.4	7.06	<2.00	11.5	163	360
	5/1/2017	26.0	9.19	29.5	5.65	<2.00	<2.00	3.38	31.9	115
	8/14/2017	27.8	8.87	55.4	4.97	2.89	<2.00	3.51	15.7	31.2
	9/21/2017	35.2	4.54	75.3	2.30	6.37	<2.00	6.62	7.75	77.1
	3/21/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	2.52	<2.00	13.7	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	22.1	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-9BR	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-10	3/6/2018	137	41.2	357	209	20.2	<2.00	55.2	61.7	272
	3/22/2018	75.3	39.5	290	134	19.5	2.08	20.4	29.7	167
	5/25/2018	49.8	19.0	296	93.6	13.9	2.54	13.4	11.9	57.0
	1/25/2019	53.2	11.7	123	79.1	15.6	<2.00	8.72	5.14	35.9
MW-11	9/8/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	3.11	<2.00	<2.00	2.34	<2.00	<2.00	<6.00
	1/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	2.62	<2.00	<2.00	<6.00

Table 4 (Updated)

GROUNDWATER SAMPLE ANALYTICAL SUMMARY

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INDIANA, INDIANA CO., PA

PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L										
		62	1,200	5	700	3,500	20	100	1,000	10,000
Sample Parameters										
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes
MW-12	9/8/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-13	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-14	3/22/2018	943	215	4,700	927	87.3	58.0	164	2,810	3,560
	5/25/2018	1,040	349	1,650	496	65.2	21.8	201	1,650	3,030
	1/25/2019	1,870	523	3,450	1,070	94.5	<50.0	317	3,690	5,440
MW-15	5/9/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
MW-16	5/9/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	3.85	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
EW-1	4/17/2017	932	242	2,990	844	59.7	11.6	201	4,480	5,180
	5/1/2017	1,060	247	2,470	828	55.6	10.2	229	4,800	5,530
	8/14/2017	275	84.2	171	93.3	14.7	<10.0	49.2	191	536
	3/22/2018	67.1	12.6	113	24.9	<10.0	<10.0	23.4	17.0	103
	5/25/2018	435	102	924	375	43.5	<2.00	71.4	1,910	2,180
	1/25/2019	355	56.7	1,250	325	<50.0	<50.0	62.1	918	1,420
EW-1BR	4/17/2017	160	48.4	684	148	16.8	5.19	35.6	483	594
	5/1/2017	199	53.1	679	174	18.3	4.87	42.2	469	724
	8/14/2017	343	99.9	2,040	375	41.5	19.0	101	827	1,490
	5/25/2018	202	38.7	734	177	18.9	<2.00	46.5	138	601
STREAM	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/12/2017	<2.00	<2.00	3.39	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	1/24/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
Building Sump (Sump B)	6/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00
	5/25/2018	4,560	3,440	3,030	1,900	413	<200	2,290	150,000	24,200
	1/25/2019	1,930	493	5,710	709	<2.00	<2.00	382	16,600	10,500
Tank Field Sump	5/25/2018	1,950	499	2,680	822	74.4	<2.00	604	13,200	10,300
	1/25/2019	493	121	804	250	<100	<100	<100	3,630	3,290

NS - not sampled; product

Prepared By: LML 2/13/19
Checked By: HAH 2/20/2019

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS
 VENNARD'S CROSSROADS CONVENIENCE, INC
 INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-1	7/27/2016	11.03	-	0	1282.81	-	1271.78	
	8/18/2016	9.45	-	0	1282.81	-	1273.36	
	10/4/2016	10.09	-	0	1282.81	-	1272.72	
	10/31/2016	7.91	-	0	1282.81	-	1274.90	
	1/12/2017	7.72	-	0	1282.81	-	1275.09	
	5/1/2017	8.07	-	0	1282.81	-	1274.71	
	6/22/2017	7.64	-	0	1282.81	-	1275.17	
	8/14/2017	9.33	-	0	1282.81	-	1273.48	
	9/21/2017	8.97	-	0	1282.81	-	1273.84	
	3/6/2018	6.11	-	0	1282.81	-	1276.70	
	3/22/2018	8.31	-	0	1282.81	-	1274.50	
	5/9/2018	8.10	-	0	1282.81	-	1274.71	
	5/24/2018	7.44	-	0	1282.81	-	1275.37	
	1/24/2019	6.11	-	0	1282.81	-	1276.70	
MW-2	7/27/2016	9.85	-	0	1282.64	-	1272.79	Odor
	8/18/2016	9.25	-	0	1282.64	-	1273.39	Odor
	10/4/2016	9.01	-	0	1282.64	-	1273.63	Odor
	10/31/2016	6.95	-	0	1282.64	-	1275.69	
	1/12/2017	6.73	-	0	1282.64	-	1275.91	
	5/1/2017	8.16	7.56	0.60	1282.70	7.69	1275.01	product and thickness estimated from bailer
	5/23/2017	8.27	7.96	0.31	1282.70	8.03	1274.67	
	6/22/2017	6.65	6.5	0.15	1282.70	6.53	1276.17	
	6/28/2017	5.91	5.79	0.12	1282.70	5.82	1276.88	
	8/14/2017	8.65	-	0.00	1282.70	-	1274.05	
	9/21/2017	8.16	-	0.00	1282.70	-	1274.54	
	3/6/2018	4.05	-	0.00	1282.70	-	1278.65	Sheen/Odor
	3/22/2018	7.94	7.84	0.10	1282.70	7.86	1274.84	
	5/24/2018	6.97	6.52	0.08	1282.70	6.91	1275.79	Product in well
	1/24/2019	5.33		1.50	1282.70		1277.37	Product thickness measured in bailer. Interface probe not working
MW-3	7/27/2016	9.66	-	0	1280.96	-	1271.30	
	8/18/2016	8.25	-	0	1280.96	-	1272.71	
	10/4/2016	8.89	-	0	1280.96	-	1272.07	
	10/31/2016	7.10	-	0	1280.96	-	1273.86	
	1/12/2017	10.82	-	0	1280.96	-	1270.14	
	5/1/2017	7.13	-	0	1280.96	-	1273.83	
	6/22/2017	NM	-	0	1280.96	-	NM	
	8/14/2017	8.26	-	0	1280.96	-	1272.70	
	9/21/2017	8.11	-	0	1280.96	-	1272.85	
	3/6/2018	5.71	-	0	1280.96	-	1275.25	
	3/22/2018	7.55	-	0	1280.96	-	1273.41	
	5/9/2018	7.35	-	0	1280.96	-	1273.61	
	5/24/2018	6.68	-	0	1280.96	-	1274.28	
	1/24/2019	5.64	-	0	1280.96	-	1275.32	
MW-4	7/27/2016	10.47	-	0	1282.83	-	1272.36	
	8/18/2016	8.39	-	0	1282.83	-	1274.44	
	10/4/2016	9.76	-	0	1282.83	-	1273.07	
	10/31/2016	7.60	-	0	1282.83	-	1275.23	
	1/12/2017	7.43	-	0	1282.83	-	1275.40	
	5/1/2017	7.70	-	0	1282.83	-	1275.13	
	5/23/2017	8.45	-	0	1282.83	-	1274.38	
	6/22/2017	7.84	-	0	1282.83	-	1274.99	
	8/14/2017	8.95	-	0	1282.83	-	1273.88	
	9/21/2017	8.70	-	0	1282.83	-	1274.13	
	3/6/2018	6.38	-	0	1282.83	-	1276.45	
	3/21/2018	8.30	-	0	1282.83	-	1274.53	
	5/9/2018	7.10	-	0	1282.83	-	1275.73	
	5/24/2018	7.20	-	0	1282.83	-	1275.63	
	1/24/2019	6.81	-	0	1282.83	-	1276.02	Sheen/Odor

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS
 VENNARD'S CROSSROADS CONVENIENCE, INC
 INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-5	9/19/2016	8.18	-	0	1279.88	-	1271.70	
	10/4/2016	7.82	-	0	1279.88	-	1272.06	
	10/31/2016	6.20	-	0	1279.88	-	1273.68	
	1/12/2017	5.71	-	0	1279.88	-	1274.17	
	5/1/2017	6.28	-	0	1279.86	-	1273.58	
	6/22/2017	5.80		0	1279.86		1274.06	
	8/14/2017	7.40		0	1279.86		1272.46	
	9/21/2017	7.17		0	1279.86		1272.69	
	3/6/2018	5.28		0	1279.86		1274.58	
	3/21/2018	6.88		0	1279.86		1272.98	
	5/9/2018	6.64		0	1279.86		1273.22	
	5/24/2018	5.60		0	1279.86		1274.26	
	1/24/2019	4.66		0	1279.86		1275.20	
MW-6	9/19/2016	6.67	-	0	1278.91	-	1272.24	
	10/4/2016	6.36	-	0	1278.91	-	1272.55	
	10/31/2016	5.00	-	0	1278.91	-	1273.91	
	1/12/2017	4.91	-	0	1278.91	-	1274.00	
	5/1/2017	5.32			1278.92		1273.60	
	6/22/2017	4.59		0	1278.92		1274.33	
	8/14/2017	6.18		0	1278.92		1272.74	
	9/21/2017	5.75		0	1278.92		1273.17	
	3/6/2018	4.00		0	1278.92		1274.92	
	3/22/2018	5.62		0	1278.92		1273.30	
	5/9/2018	5.40		0	1278.92		1273.52	
	5/24/2018	4.91		0	1278.92		1274.01	
	1/24/2019	3.49		0	1278.92		1275.43	
MW-7	9/19/2016	8.60	-	0	1281.56	-	1272.96	No Odor
	10/4/2016	8.63	-	0	1281.56	-	1272.93	
	10/31/2016	7.16	-	0	1281.56	-	1274.40	
	1/12/2017	7.09	-	0	1281.56	-	1274.47	
	5/1/2017	7.71	-	0	1281.55	-	1273.84	
	5/23/2017	7.88			1281.55		1273.67	
	6/22/2017	7.53			1281.55		1274.02	
	8/14/2017	8.10			1281.55		1273.45	
	9/21/2017	7.91			1281.55		1273.64	
	3/6/2018	6.13			1281.55		1275.42	
	3/22/2018	7.72			1281.55		1273.83	
	5/9/2018	7.61			1281.55		1273.94	
	5/24/2018	6.97			1281.55		1274.58	
	1/24/2019	3.61			1281.55		1277.94	
MW-8	9/19/2016	10.13	-	0	1285.45	-	1275.32	
	10/4/2016	10.61	-	0	1285.45	-	1274.84	
	10/31/2016	7.41	-	0	1285.45	-	1278.04	
	1/12/2017	7.05	-	0	1285.45	-	1278.40	
	5/1/2017	8.05	-	0	1285.53	-	1277.48	
	5/23/2017	9.80			1285.53		1275.73	
	6/22/2017	7.01			1285.53		1278.52	
	8/14/2017	9.73			1285.53		1275.80	
	9/21/2017	9.71			1285.53		1275.82	
	3/6/2018	5.91			1285.53		1279.62	
	3/21/2018	8.80			1285.53		1276.73	
	5/24/2018	6.97			1285.53		1278.56	
	1/24/2019	5.30			1285.53		1280.23	
MW-9	4/17/2017	9.00	-	0	1286.22	-	1277.22	
	5/1/2017	9.50	-	0	1286.85	-	1277.35	
	6/22/2017	8.33		0	1286.85		1286.85	
	8/14/2017	11.70		0	1286.85		1275.15	
	9/21/2017	11.20		0	1286.85		1275.65	
	3/6/2018	9.35		0	1286.85		1277.50	
	3/21/2018	10.72		0	1286.85		1276.13	
	5/24/2018	9.41		0	1286.85		1277.44	
	1/24/2019	6.45		0	1286.85		1280.40	

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-10	3/6/2018	10.30		0	1287.52		1277.22	Odor
	3/22/2018	12.10		0	1287.52		1275.42	
	5/9/2018	11.80		0	1287.52		1275.72	
	5/24/2018	10.80		0	1287.52		1276.72	
	1/24/2019	10.41		0	1287.52		1277.11	
MW-11	9/8/2017	7.30	-	0	1280.63	-	1273.33	
	9/21/2017	6.97	-	0	1280.63	-	1273.66	
	3/6/2018	5.50	-	0	1280.63	-	1275.13	
	3/22/2018	6.81	-	0	1280.63	-	1273.82	
	5/9/2018	6.69	-	0	1280.63	-	1273.94	
	5/24/2018	6.20	-	0	1274.43	-	1268.23	
	1/24/2019	5.32	-	0	1274.43	-	1269.11	
MW-12	9/8/2017	2.95	-	0	1275.75	-	1272.80	
	9/21/2017	2.92	-	0	1275.75	-	1272.83	
	3/6/2018	2.30	-	0	1275.75	-	1273.45	
	3/22/2018	2.58	-	0	1275.75	-	1273.17	
	5/9/2018	2.31	-	0	1275.75	-	1273.44	
	5/24/2018	2.28	-	0	1275.75	-	1273.47	
	1/24/2019	1.21	-	0	1275.75	-	1274.54	
MW-13	3/6/2018	9.10	-	0	1288.87	-	1279.77	
	3/22/2018	12.60	-	0	1288.87	-	1276.27	
	5/9/2018	12.20	-	0	1288.87	-	1276.67	
	5/24/2018	9.96	-	0	1288.87	-	1278.91	
	1/24/2019	7.98	-	0	1288.87	-	1280.89	
MW-14	3/6/2018	6.16	-	0	1282.42	-	1276.26	Slight Odor Very Strong Odor
	3/22/2018	7.92	-	0	1282.42	-	1274.50	
	5/24/2018	7.10	-	0	1282.42	-	1275.32	
	1/24/2019	5.68	-	0	1282.42	-	1276.74	
MW-15	5/9/2018	2.70	-	0	1276.58	-	1273.88	
	5/24/2018	1.25	-	0	1276.58	-	1275.33	
	1/24/2019	0.50	-	0	1276.58	-	1276.08	
MW-16	5/9/2018	12.85	-	0	1288.4	-	1275.55	
	5/24/2018	12.00	-	0	1288.4	-	1276.40	
	1/24/2019	11.20	-	0	1288.4	-	1277.20	
MW-1BR	11/25/2016	11.50	-	0	1285.50	-	1274.00	
	1/12/2017	9.11	-	0	1285.50	-	1276.39	
	5/1/2017	9.25	-	0	1285.50	-	1276.25	
	6/22/017	9.47	-	0	1285.50	-	1276.03	
	8/14/2017	10.52	-	0	1285.58	-	1275.06	
	9/21/2017	11.30	-	0	1285.58	-	1274.28	
	3/6/2018	8.39	-	0	1285.58	-	1277.19	
	3/21/2018	9.70	-	0	1285.58	-	1275.88	
	5/9/2018	9.14	-	0	1285.58	-	1276.44	
	5/24/2018	8.70	-	0	1285.58	-	1276.88	
	1/24/2019	8.50	-	0	1285.58	-	1277.08	
MW-2BR	11/25/2016	8.31	-	0	1281.82	-	1273.51	Odor/Sheen
	1/12/2017	6.23	-	0	1281.82	-	1275.59	
	5/1/2017	6.75	-	0	1281.82	-	1275.07	
	6/22/2017	6.83	-	0	1281.82	-	1274.99	
	8/14/2017	8.10	-	0	1281.81	-	1273.71	
	9/21/2017	7.81	-	0	1281.81	-	1274.00	
	3/6/2018	5.54	-	0	1281.81	-	1276.27	
	5/9/2018	7.10	-	0	1281.81	-	1274.71	
	5/24/2018	6.20	-	0	1281.81	-	1275.61	
	1/24/2019	5.33	-	0	1281.81	-	1276.48	

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS
VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
Tank Field Sump	7/27/2016	8.85	8.66	0.19	1284.41	8.70	1275.71	Inapl thickness estimated from bailer observation. Odor/Sheen
	8/18/2016	7.80	7.65	0.15	1284.41	7.68	1276.73	
	10/4/2016	7.05			1284.41	7.05	1277.36	
	10/31/2016	6.10	5.89	0.21	1284.41	5.94	1278.47	
	1/12/2017	4.43	4.39	0.04	1284.41	4.40	1280.01	
	5/1/2017	5.90	5.8	0.1	1284.41	5.82	1278.59	
	5/23/2017	9.08	9.05	0.03	1284.41	9.06	1275.35	
	6/22/2017	5.95	5.9	0.05	1284.41	5.91	1278.50	
	6/28/2017	4.74	4.69	0.03	1284.41	4.72	1279.69	
	3/6/2018	4.30	4.69	0.03	1284.41	4.28	1280.13	
	5/25/2018	5.68	-	0	1284.41	-	1278.73	
	1/24/2019	3.61	-	0	1284.41	-	1280.80	
Vennard Building Sump	6/21/2017	8.00			not surveyed	not surveyed	not surveyed	Odor / Sheen of Product Product Sheen Strong odor/ Sheen
	3/6/2018	8.03	-	-	not surveyed	not surveyed	not surveyed	
	5/9/2018	6.16	-	-	not surveyed	not surveyed	not surveyed	
	5/25/2018	8.00	-	-	not surveyed	not surveyed	not surveyed	
Stream 1	1/24/2019	6.88	-	-	not surveyed	not surveyed	not surveyed	
	7/27/2016	3.50	-	0	1274.20	-	1270.70	
	8/18/2016	3.40	-	0	1274.20	-	1270.80	
	10/4/2016	3.47			1274.2		1270.73	
	10/31/2016	0.31			1274.2		1273.89	
	1/12/2017	3.32			1274.2		1270.88	
	5/1/2017	3.49			1274.2		1270.71	
	9/21/2017	3.55			1274.2		1270.65	
	3/6/2018	3.81			1274.2		1270.39	
	5/24/2018	3.43			1274.2		1270.77	
	1/24/2019	3.05			1274.2		1271.15	

SWL* = SWL corrected to compensate for the presence of free product: SWL* = SWL - (PT * 0.78)
Where PT = product thickness and 0.78 is the average density of petroleum hydrocarbons.

Prepared By: MPL 1/31/2019

Checked By: TRR 1/31/2019