

DRAFT APPENDIX 6A

Supplemental Tables

TABLE 6A-1 Surficial Materials Crossed by the Pipeline Facilities	1
TABLE 6A-2 Surficial Materials at the Aboveground Facilities	7
TABLE 6A-3 Bedrock Geology Crossed by the Pipelines	8
TABLE 6A-4 Bedrock at the Aboveground Facilities.....	23
TABLE 6A-5 Surface Mines within 0.25 mile of the Pipelines	24
TABLE 6A-6 Oil and Gas wells within 0.25 mile of the Pipelines	27
TABLE 6A-7 Historic Earthquakes in the Project Area.....	53
TABLE 6A-8 Landslide Hazard Areas	55

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Supply Laterals:				
Sherwood Lateral	WV	0.00	35.72	No Data Available
	OH	35.72	54.0	Colluvium
CGT Lateral	WV	0.00	5.68	No Data Available
Seneca Lateral:	OH	0.00	25.63	Colluvium
Berne Lateral:	OH	0.00	3.69	Colluvium
Clarrington Lateral:	OH	0.00	32.65	Colluvium
Majorsville Lateral:	WV	0.00	12.6	No Data Available
	OH	12.6	23.86	Colluvium
Cadiz Lateral:	OH	0.00	2.94	Colluvium
Burgettstown Lateral:	PA	0.00	10.4	Colluvium
	WV	10.65	15.7	No Data Available
	OH	15.7	14.72	Colluvium
	OH	14.72	49.59	Colluvium
	OH	49.59	51.3	Lake Deposits
Supply Connector Lines A and B	OH	0.00	18.77	Colluvium
Mainlines:				
Mainlines A and B	OH	18.76	20.76	Colluvium
	OH	20.76	21.69	Lake Deposits
	OH	21.69	23.42	Colluvium
	OH	23.42	25.10	Lake Deposits
	OH	25.10	25.66	Colluvium
	OH	25.66	29.84	Lake Deposits
	OH	29.84	32.75	Colluvium
	OH	32.75	39.45	Outwash
	OH	39.45	41.85	Colluvium
	OH	41.85	44.97	Outwash
	OH	44.97	46.75	Ground Moraine
	OH	46.75	47.12	Ridge Moraine
	OH	47.12	49.66	Kames and Eskers
	OH	49.66	50.52	Ground Moraine
	OH	50.52	52.90	Ridge Moraine
	OH	52.90	54.48	Ground Moraine
	OH	54.48	55.58	Ridge Moraine
	OH	55.58	56.28	Ground Moraine
	OH	56.28	63.07	Ridge Moraine

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Mainlines A and B	OH	63.07	63.59	Ground Moraine
	OH	63.59	64.96	Ridge Moraine
	OH	64.96	65.70	Ground Moraine
	OH	65.70	67.13	Ridge Moraine
	OH	67.13	68.55	Ground Moraine
	OH	68.55	68.89	Ground Moraine
	OH	68.89	69.06	Ground Moraine
	OH	69.06	70.48	Ridge Moraine
	OH	74.33	74.53	Ground Moraine
	OH	74.53	75.33	Ridge Moraine
	OH	75.33	75.74	Ground Moraine
	OH	75.74	77.69	Ground Moraine
	OH	77.69	80.30	Ground Moraine
	OH	81.24	81.42	Ridge Moraine
	OH	81.42	82.23	Ground Moraine
	OH	82.23	83.59	Ridge Moraine
	OH	83.59	84.79	Kames and Eskers
	OH	84.79	86.16	Ridge Moraine
	OH	86.16	89.50	Ground Moraine
	OH	89.50	89.85	Ridge Moraine
	OH	89.85	92.24	Ground Moraine
	OH	92.24	94.36	Ridge Moraine
	OH	94.36	95.25	Kames and Eskers
	OH	95.25	98.67	Ridge Moraine
	OH	98.67	99.52	Kames and Eskers
	OH	99.52	103.66	Ridge Moraine
	OH	103.66	104.03	Ground Moraine
	OH	104.03	106.26	Ridge Moraine
	OH	106.26	108.18	Lake Deposits
	OH	108.18	108.96	Ridge Moraine
	OH	108.96	111.27	Lake Deposits
	OH	111.27	112.96	Ridge Moraine
	OH	112.96	113.54	Ground Moraine
	OH	113.54	116.26	Ridge Moraine
	OH	116.26	116.64	Ground Moraine

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Mainlines A and B	OH	116.64	117.26	Lake Deposits
	OH	119.07	119.35	Ground Moraine
	OH	119.35	119.54	Ridge Moraine
	OH	119.54	122.28	Lake Deposits
	OH	122.28	131.50	Ground Moraine
	OH	131.50	132.25	Ridge Moraine
	OH	132.25	134.96	Lake Deposits
	OH	134.96	137.57	Ridge Moraine
	OH	137.57	139.71	Wave Planed Dark Moraine
	OH	139.71	141.85	Ridge Moraine
	OH	141.85	208.89	Wave Planed Dark Moraine
	OH	208.89	209.39	Lake Deposits
Market Segment:				
Market Segment	OH	0.00	3.36	Lake Deposits
	OH	3.36	12.18	Wave Planed Dark Moraine
	OH	12.18	13.43	Lake Deposits
	OH	13.43	18.60	Ground Moraine
	OH	18.60	28.57	Lake Deposits
	MI	27.60	27.88	Lacustrine sand and gravel
	MI	27.88	30.06	End moraines of fine-textured till
	MI	30.06	34.98	Lacustrine sand and gravel
	MI	34.98	35.25	Glacial outwash sand and gravel and postglacial alluvium
	MI	35.25	43.87	End moraines of fine-textured till
	MI	43.87	44.48	Fine-textured glacial till
	MI	44.48	45.21	End moraines of fine-textured till
	MI	45.21	54.35	Fine-textured glacial till
	MI	54.35	54.64	End moraines of fine-textured till
	MI	54.64	55.09	Fine-textured glacial till
	MI	55.09	55.72	End moraines of fine-textured till
	MI	55.72	56.27	Fine-textured glacial till
	MI	56.27	62.60	End moraines of fine-textured till
	MI	62.60	63.97	Glacial outwash sand and gravel and postglacial alluvium
	MI	63.97	68.36	End moraines of fine-textured till
	MI	68.36	81.71	Medium-textured glacial till
	MI	81.71	83.57	Ice-contact outwash sand and gravel

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Market Segment	MI	83.57	85.22	Glacial outwash sand and gravel and postglacial alluvium
	MI	85.22	87.75	Ice-contact outwash sand and gravel
	MI	87.75	88.20	Glacial outwash sand and gravel and postglacial alluvium
	MI	88.20	88.94	Ice-contact outwash sand and gravel
	MI	88.94	89.43	Glacial outwash sand and gravel and postglacial alluvium
	MI	89.43	90.18	Ice-contact outwash sand and gravel
	MI	90.18	93.48	Glacial outwash sand and gravel and postglacial alluvium
	MI	93.48	100.17	End moraines of coarse-textured till
	MI	100.17	100.64	Medium-textured glacial till
	MI	100.64	101.20	End moraines of medium-textured till
	MI	101.20	106.34	Medium-textured glacial till
	MI	106.34	111.03	End moraines of medium-textured till
	MI	111.03	112.94	Medium-textured glacial till
	MI	112.94	114.29	End moraines of medium-textured till
	MI	114.29	117.36	Medium-textured glacial till
	MI	117.36	118.03	Glacial outwash sand and gravel and postglacial alluvium
	MI	118.03	118.47	Medium-textured glacial till
	MI	118.47	120.20	Glacial outwash sand and gravel and postglacial alluvium
	MI	120.20	121.17	Medium-textured glacial till
	MI	121.17	122.88	End moraines of medium-textured till
	MI	122.88	127.59	Medium-textured glacial till
	MI	127.59	127.86	End moraines of medium-textured till
	MI	127.86	138.05	Medium-textured glacial till
	MI	138.05	139.14	End moraines of medium-textured till
	MI	139.14	139.89	Glacial outwash sand and gravel and postglacial alluvium
	MI	139.89	140.40	End moraines of medium-textured till
	MI	140.40	140.51	Glacial outwash sand and gravel and postglacial alluvium
	MI	140.51	143.13	End moraines of medium-textured till
	MI	143.13	144.60	Glacial outwash sand and gravel and postglacial alluvium
	MI	144.60	144.60	Coarse-textured glacial till
	MI	144.60	145.33	End moraines of coarse-textured till

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Market Segment	MI	145.33	147.44	Glacial outwash sand and gravel and postglacial alluvium
	MI	147.44	149.42	Medium-textured glacial till
	MI	149.42	149.83	End moraines of medium-textured till
	MI	149.83	150.46	Glacial outwash sand and gravel and postglacial alluvium
	MI	150.46	157.07	End moraines of coarse-textured till
	MI	157.07	159.15	Lacustrine clay and silt
	MI	159.15	162.52	End moraines of coarse-textured till
	MI	162.52	163.17	Lacustrine clay and silt
	MI	163.17	165.10	End moraines of coarse-textured till
	MI	165.10	166.97	Lacustrine clay and silt
	MI	166.97	168.82	End moraines of coarse-textured till
	MI	168.82	170.83	Lacustrine clay and silt
	MI	170.83	173.05	End moraines of coarse-textured till
	MI	173.05	173.49	Lacustrine clay and silt
	MI	173.49	175.20	End moraines of fine-textured till
	MI	175.20	175.76	Lacustrine clay and silt
	MI	175.76	176.64	End moraines of fine-textured till
	MI	176.64	178.94	Lacustrine clay and silt
	MI	178.94	181.12	End moraines of fine-textured till
	MI	181.12	182.51	Lacustrine clay and silt
	MI	182.51	182.89	End moraines of fine-textured till
	MI	182.89	184.70	Lacustrine clay and silt
	MI	184.70	188.58	End moraines of medium-textured till
	MI	188.58	189.88	Lacustrine clay and silt
	MI	189.88	190.57	End moraines of medium-textured till
	MI	190.57	194.48	Lacustrine clay and silt
	MI	194.48	195.17	Dune sand
	MI	195.17	196.74	End moraines of fine-textured till
	MI	196.74	197.19	Dune sand
	MI	197.19	197.62	End moraines of fine-textured till
	MI	197.62	197.96	Lacustrine sand and gravel
	MI	197.96	198.54	End moraines of fine-textured till
	MI	198.54	207.48	Lacustrine clay and silt
	MI	207.48	207.81	Lacustrine sand and gravel

TABLE 6A-1
Surficial Materials Crossed by the Pipeline Facilities

Pipeline Segment	State	Begin MP	End MP	Surficial Geology
Market Segment	MI	207.81	209.6	Lacustrine clay and silt
Sources: USGS, 2007a; USGS, 2007b; and USGS, 2008.				

TABLE 6A-2
Surficial Materials at the Aboveground Facilities

Station	County, State	Formation
Supply Laterals:		
Sherwood Compressor Station	Doddridge, WV	No Data Available
CGT Receipt Meter Station	Doddridge, WV	No Data Available
Seneca Compressor Station	Noble, OH	Colluvium
Berne Receipt Meter Station	Noble, OH	Colluvium
Clarington Compressor Station	Monroe, OH	Colluvium
Majorsville Compressor Station	Marshall, WV	No Data Available
Cadiz Compressor Station	Harrison, OH	Colluvium
Burgettstown Compressor Station	Washington, PA	Colluvium
Mainlines:		
Mainline 1 Compressor Station	Carroll, OH	Colluvium
Mainline 2 Compressor Station	Wayne, OH	Ridge Moraine
Mainline 3 Compressor Station	Crawford, OH	Ridge Moraine, Ground Moraine
Market Segment:		
Defiance Compressor Station	Defiance, OH	Lake Deposits
Consumers Energy Delivery Meter Station	Washtenaw, MI	End moraines of fine-textured till
Michigan Consolidated Delivery Meter Station	Shiawassee, MI	End moraines of medium-textured till
Sources: USGS, 2007a; USGS, 2007b; and USGS, 2008.		

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Supply Laterals:							
Sherwood Lateral	WV	0.00	0.30	Dunkard	sandstone	siltstone	Pd
	WV	0.30	0.42	Monongahela	sandstone	siltstone	PAm
	WV	0.42	0.72	Dunkard	sandstone	siltstone	Pd
	WV	0.72	1.50	Monongahela	sandstone	siltstone	PAm
	WV	1.50	1.67	Dunkard	sandstone	siltstone	Pd
	WV	1.67	1.80	Monongahela	sandstone	siltstone	PAm
	WV	1.80	2.32	Dunkard	sandstone	siltstone	Pd
	WV	2.32	2.67	Monongahela	sandstone	siltstone	PAm
	WV	2.67	3.34	Dunkard	sandstone	siltstone	Pd
	WV	3.34	3.52	Monongahela	sandstone	siltstone	PAm
	WV	3.52	35.62	Dunkard	sandstone	siltstone	Pd
	WV	35.62	35.74	Monongahela	alluvium		Qal
	OH	35.73	36.15	Monongahela Group	shale	siltstone	PAm
	OH	36.15	42.85	Dunkard Group	mudstone	shale	PPAd
	OH	42.85	42.96	Monongahela Group	shale	siltstone	PAm
	OH	42.96	43.74	Dunkard Group	mudstone	shale	PPAd
	OH	43.74	43.81	Monongahela Group	shale	siltstone	PAm
	OH	43.81	46.00	Dunkard Group	mudstone	shale	PPAd
	OH	46.00	46.22	Monongahela Group	shale	siltstone	PAm
	OH	46.22	50.07	Dunkard Group	mudstone	shale	PPAd
	OH	50.07	50.59	Monongahela Group	shale	siltstone	PAm
	OH	50.59	52.60	Dunkard Group	mudstone	shale	PPAd
	OH	52.60	52.77	Monongahela Group	shale	siltstone	PAm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Sherwood Lateral	OH	52.77	54.05	Dunkard Group	mudstone	shale	PPAd
CGT Lateral	WV	0.00	0.30	Monongahela	sandstone	siltstone	PAm
	WV	0.30	5.68	Dunkard	sandstone	siltstone	Pd
Seneca Lateral	OH	0.00	2.08	Monongahela Group	shale	siltstone	PAm
	OH	2.08	2.19	Conemaugh Group	siltstone	shale	PAc
	OH	2.19	2.36	Monongahela Group	shale	siltstone	PAm
	OH	2.36	2.43	Dunkard Group	mudstone	shale	PPAd
	OH	2.43	2.52	Monongahela Group	shale	siltstone	PAm
	OH	2.52	2.64	Dunkard Group	mudstone	shale	PPAd
	OH	2.64	2.69	Monongahela Group	shale	siltstone	PAm
	OH	2.69	2.78	Dunkard Group	mudstone	shale	PPAd
	OH	2.78	2.93	Monongahela Group	shale	siltstone	PAm
	OH	2.93	3.00	Dunkard Group	mudstone	shale	PPAd
	OH	3.00	3.22	Monongahela Group	shale	siltstone	PAm
	OH	3.22	3.32	Conemaugh Group	siltstone	shale	PAc
	OH	3.32	3.53	Monongahela Group	shale	siltstone	PAm
	OH	3.53	3.76	Conemaugh Group	siltstone	shale	PAc
	OH	3.76	4.03	Monongahela Group	shale	siltstone	PAm
	OH	4.03	4.17	Dunkard Group	mudstone	shale	PPAd
	OH	4.17	4.38	Monongahela Group	shale	siltstone	PAm
	OH	4.38	4.48	Dunkard Group	mudstone	shale	PPAd
	OH	4.48	4.70	Monongahela Group	shale	siltstone	PAm
	OH	4.70	4.77	Dunkard Group	mudstone	shale	PPAd
	OH	4.77	4.86	Monongahela Group	shale	siltstone	PAm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Seneca Lateral	OH	4.86	4.95	Dunkard Group	mudstone	shale	PPAd
	OH	4.95	5.22	Monongahela Group	shale	siltstone	PAm
	OH	5.22	5.28	Dunkard Group	mudstone	shale	PPAd
	OH	5.28	5.37	Monongahela Group	shale	siltstone	PAm
	OH	5.37	5.61	Dunkard Group	mudstone	shale	PPAd
	OH	5.61	5.81	Monongahela Group	shale	siltstone	PAm
	OH	5.81	6.03	Dunkard Group	mudstone	shale	PPAd
	OH	6.03	6.09	Monongahela Group	shale	siltstone	PAm
	OH	6.09	6.18	Dunkard Group	mudstone	shale	PPAd
	OH	6.18	6.28	Monongahela Group	shale	siltstone	PAm
	OH	6.28	6.42	Dunkard Group	mudstone	shale	PPAd
	OH	6.42	6.51	Monongahela Group	shale	siltstone	PAm
	OH	6.51	9.26	Dunkard Group	mudstone	shale	PPAd
	OH	9.26	9.46	Monongahela Group	shale	siltstone	PAm
	OH	9.46	10.48	Dunkard Group	mudstone	shale	PPAd
	OH	10.48	10.52	Monongahela Group	shale	siltstone	PAm
	OH	10.52	12.46	Dunkard Group	mudstone	shale	PPAd
	OH	12.46	12.62	Monongahela Group	shale	siltstone	PAm
	OH	12.62	12.93	Dunkard Group	mudstone	shale	PPAd
	OH	12.93	13.07	Monongahela Group	shale	siltstone	PAm
	OH	13.07	13.74	Dunkard Group	mudstone	shale	PPAd
	OH	13.74	13.85	Monongahela Group	shale	siltstone	PAm
	OH	13.85	15.66	Dunkard Group	mudstone	shale	PPAd
	OH	15.66	15.75	Monongahela Group	shale	siltstone	PAm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Seneca Lateral	OH	15.75	25.63	Dunkard Group	mudstone	shale	PPAd
Berne Lateral	OH	0.00	0.52	Monongahela Group	shale	siltstone	PAm
	OH	0.52	0.66	Dunkard Group	mudstone	shale	PPAd
	OH	0.66	1.12	Monongahela Group	shale	siltstone	PAm
	OH	1.12	1.19	Dunkard Group	mudstone	shale	PPAd
	OH	1.19	3.69	Monongahela Group	shale	siltstone	PAm
Clarington Lateral	OH	0.00	1.20	Dunkard Group	mudstone	shale	PPAd
	OH	1.20	1.27	Monongahela Group	shale	siltstone	PAm
	OH	1.27	1.34	Dunkard Group	mudstone	shale	PPAd
	OH	1.34	1.41	Monongahela Group	shale	siltstone	PAm
	OH	1.41	3.92	Dunkard Group	mudstone	shale	PPAd
	OH	3.92	4.30	Monongahela Group	shale	siltstone	PAm
	OH	4.30	4.40	Dunkard Group	mudstone	shale	PPAd
	OH	4.40	4.44	Monongahela Group	shale	siltstone	PAm
	OH	4.44	4.77	Dunkard Group	mudstone	shale	PPAd
	OH	4.77	5.27	Monongahela Group	shale	siltstone	PAm
	OH	5.27	5.86	Dunkard Group	mudstone	shale	PPAd
	OH	5.86	7.05	Monongahela Group	shale	siltstone	PAm
	OH	7.05	11.66	Dunkard Group	mudstone	shale	PPAd
	OH	11.66	11.72	Monongahela Group	shale	siltstone	PAm
	OH	11.72	14.60	Dunkard Group	mudstone	shale	PPAd
	OH	14.60	14.75	Monongahela Group	shale	siltstone	PAm
	OH	14.75	15.54	Dunkard Group	mudstone	shale	PPAd
	OH	15.54	16.13	Monongahela Group	shale	siltstone	PAm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Clarington Lateral	OH	16.13	16.30	Dunkard Group	mudstone	shale	PPAd
	OH	16.30	16.51	Monongahela Group	shale	siltstone	PAm
	OH	16.51	16.64	Dunkard Group	mudstone	shale	PPAd
	OH	16.64	16.94	Monongahela Group	shale	siltstone	PAm
	OH	16.94	17.06	Dunkard Group	mudstone	shale	PPAd
	OH	17.06	17.95	Monongahela Group	shale	siltstone	PAm
	OH	17.95	18.17	Dunkard Group	mudstone	shale	PPAd
	OH	18.17	18.20	Monongahela Group	shale	siltstone	PAm
	OH	18.20	19.17	Dunkard Group	mudstone	shale	PPAd
	OH	19.17	21.30	Monongahela Group	shale	siltstone	PAm
	OH	21.30	21.38	Dunkard Group	mudstone	shale	PPAd
	OH	21.38	28.77	Monongahela Group	shale	siltstone	PAm
	OH	28.77	29.03	Conemaugh Group	siltstone	shale	PPAd
	OH	29.03	29.25	Monongahela Group	shale	siltstone	PAm
	OH	29.25	29.52	Conemaugh Group	siltstone	shale	PAc
	OH	29.52	29.78	Monongahela Group	shale	siltstone	PAm
	OH	29.78	30.07	Conemaugh Group	siltstone	shale	PAc
	OH	30.07	30.30	Monongahela Group	shale	siltstone	PAm
	OH	30.30	31.83	Conemaugh Group	siltstone	shale	PAc
	OH	31.83	31.99	Monongahela Group	shale	siltstone	PAm
	OH	31.99	32.65	Conemaugh Group	siltstone	shale	PAc
Majorsville Lateral	WV	0.00	2.63	Dunkard	sandstone	siltstone	Pd
	WV	2.63	2.99	Monongahela	sandstone	siltstone	PAm
	WV	2.99	11.39	Dunkard	sandstone	siltstone	Pd

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Majorsville Lateral	WV	11.39	11.74	Monongahela	sandstone	siltstone	PAm
	WV	11.74	11.83	Dunkard	sandstone	siltstone	Pd
	WV	11.83	12.09	Monongahela	sandstone	siltstone	PAm
	WV	12.09	12.54	Quaternary Alluvium	alluvium	--	Qal
	OH	12.54	12.62	Conemaugh Group	siltstone	shale	PAc
	OH	12.62	12.98	Monongahela Group	shale	siltstone	PAm
	OH	12.98	13.20	Dunkard Group	mudstone	shale	PPAd
	OH	13.20	13.25	Monongahela Group	shale	siltstone	PAm
	OH	13.25	13.26	Dunkard Group	mudstone	shale	PPAd
	OH	13.26	13.43	Monongahela Group	shale	siltstone	PAm
	OH	13.43	13.50	Dunkard Group	mudstone	shale	PPAd
	OH	13.50	13.68	Monongahela Group	shale	siltstone	PAm
	OH	13.68	20.57	Dunkard Group	mudstone	shale	PPAd
	OH	20.57	20.70	Monongahela Group	shale	siltstone	PAm
	OH	20.70	21.18	Dunkard Group	mudstone	shale	PPAd
	OH	21.18	21.18	Monongahela Group	shale	siltstone	PAm
	OH	21.18	22.21	Dunkard Group	mudstone	shale	PPAd
	OH	22.21	22.33	Monongahela Group	shale	siltstone	PAm
	OH	22.33	22.82	Dunkard Group	mudstone	shale	PPAd
	OH	22.82	23.00	Monongahela Group	shale	siltstone	PAm
	OH	23.00	23.25	Dunkard Group	mudstone	shale	PPAd
	OH	23.25	23.30	Monongahela Group	shale	siltstone	PAm
	OH	23.30	23.86	Dunkard Group	mudstone	shale	PPAd
Cadiz Lateral	OH	0.00	0.28	Monongahela Group	shale	siltstone	PAm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Cadiz Lateral	OH	0.28	0.45	Conemaugh Group	siltstone	shale	PAC
	OH	0.45	1.07	Monongahela Group	shale	siltstone	PAM
	OH	1.07	2.94	Conemaugh Group	siltstone	shale	PAC
Burgettstown Lateral	PA	0.00	0.15	Monongahela Group	limestone	shale	PAM
	PA	0.15	1.58	Casselman Formation	shale	siltstone	PACC
	PA	1.58	1.60	Monongahela Group	limestone	shale	PAM
	PA	1.60	1.88	Casselman Formation	shale	siltstone	PACC
	PA	1.88	1.93	Monongahela Group	limestone	shale	PAM
	PA	1.93	2.15	Casselman Formation	shale	siltstone	PACC
	PA	2.15	2.21	Monongahela Group	limestone	shale	PAM
	PA	2.21	2.88	Casselman Formation	shale	siltstone	PACC
	PA	2.88	3.04	Monongahela Group	limestone	shale	PAM
	PA	3.04	3.42	Casselman Formation	shale	siltstone	PACC
	PA	3.42	3.70	Monongahela Group	limestone	shale	PAM
	PA	3.70	3.74	Casselman Formation	shale	siltstone	PACC
	PA	3.74	4.01	Monongahela Group	limestone	shale	PAM
	PA	4.01	4.09	Casselman Formation	shale	siltstone	PACC
	PA	4.09	4.37	Monongahela Group	limestone	shale	PAM
	PA	4.37	5.65	Casselman Formation	shale	siltstone	PACC
	PA	5.65	5.81	Monongahela Group	limestone	shale	PAM
	PA	5.81	7.78	Casselman Formation	shale	siltstone	PACC
	PA	7.78	7.85	Monongahela Group	limestone	shale	PAM
	PA	7.85	8.69	Casselman Formation	shale	siltstone	PACC
	PA	8.69	9.00	Glenshaw Formation	shale	sandstone	PACG

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Burgettstown Lateral	PA	9.00	9.31	Casselman Formation	shale	siltstone	PAcc
	PA	9.31	9.38	Glenshaw Formation	shale	sandstone	PAcg
	PA	9.38	10.46	Casselman Formation	shale	siltstone	PAcc
	WV	10.46	10.69	Conemaugh	shale	siltstone	PAc
	WV	10.69	10.80	Monongahela	sandstone	siltstone	PAm
	WV	10.80	14.27	Conemaugh	shale	siltstone	PAc
	WV	14.27	14.56	Allegheny Formation	sandstone	siltstone	PAa
	WV	14.56	15.22	Conemaugh	shale	siltstone	PAc
	WV	15.22	15.38	Allegheny Formation	sandstone	siltstone	PAa
	WV	15.38	15.67	Quaternary Alluvium	alluvium		Qal
	OH	15.66	16.30	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	16.30	16.67	Conemaugh Group	siltstone	shale	PAc
	OH	16.67	16.98	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	16.98	18.66	Conemaugh Group	siltstone	shale	PAc
	OH	18.66	18.71	Monongahela Group	shale	siltstone	PAm
	OH	18.71	20.02	Conemaugh Group	siltstone	shale	PAc
	OH	20.02	20.13	Monongahela Group	shale	siltstone	PAm
	OH	20.13	20.27	Conemaugh Group	siltstone	shale	PAc
	OH	20.27	20.53	Monongahela Group	shale	siltstone	PAm
	OH	20.53	22.84	Conemaugh Group	siltstone	shale	PAc
	OH	22.84	23.10	Monongahela Group	shale	siltstone	PAm
	OH	23.10	23.43	Conemaugh Group	siltstone	shale	PAc
	OH	23.43	23.61	Monongahela Group	shale	siltstone	PAm
	OH	23.61	23.68	Conemaugh Group	siltstone	shale	PAc

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Burgettstown Lateral	OH	23.68	23.84	Monongahela Group	shale	siltstone	PAm
	OH	23.84	24.25	Conemaugh Group	siltstone	shale	PAc
	OH	24.25	24.39	Monongahela Group	shale	siltstone	PAm
	OH	24.39	24.60	Conemaugh Group	siltstone	shale	PAc
	OH	24.60	24.68	Monongahela Group	shale	siltstone	PAm
	OH	24.68	24.83	Conemaugh Group	siltstone	shale	PAc
	OH	24.83	24.91	Monongahela Group	shale	siltstone	PAm
	OH	24.91	25.30	Conemaugh Group	siltstone	shale	PAc
	OH	25.30	25.77	Monongahela Group	shale	siltstone	PAm
	OH	25.77	27.18	Conemaugh Group	siltstone	shale	PAc
	OH	27.18	27.41	Monongahela Group	shale	siltstone	PAm
	OH	27.41	28.36	Conemaugh Group	siltstone	shale	PAc
	OH	28.36	28.50	Monongahela Group	shale	siltstone	PAm
	OH	28.50	33.01	Conemaugh Group	siltstone	shale	PAc
	OH	33.01	33.11	Monongahela Group	shale	siltstone	PAm
	OH	33.11	35.03	Conemaugh Group	siltstone	shale	PAc
	OH	35.03	35.14	Monongahela Group	shale	siltstone	PAm
	OH	35.14	49.29	Conemaugh Group	siltstone	shale	PAc
	OH	49.29	50.40	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	50.40	50.56	Conemaugh Group	siltstone	shale	PAc
	OH	50.56	51.16	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	51.16	51.29	Conemaugh Group	siltstone	shale	PAc

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Supply Connector Lines A and B	OH	0.00	0.52	Conemaugh Group	siltstone	shale	OH
	OH	0.52	0.60	Monongahela Group	shale	siltstone	PAC
	OH	0.60	2.29	Conemaugh Group	siltstone	shale	PAm
	OH	2.29	3.05	Monongahela Group	shale	siltstone	PAC
	OH	3.05	3.15	Conemaugh Group	siltstone	shale	PAm
	OH	3.15	3.31	Monongahela Group	shale	siltstone	PAC
	OH	3.31	18.76	Conemaugh Group	siltstone	shale	PAm
Mainlines:							
Mainlines A and B	OH	18.76	19.11	Conemaugh Group	siltstone	shale	PAC
	OH	19.11	19.22	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	19.22	21.02	Conemaugh Group	siltstone	shale	PAC
	OH	21.02	21.18	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	21.18	21.41	Conemaugh Group	siltstone	shale	PAC
	OH	21.41	21.77	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	21.77	22.52	Conemaugh Group	siltstone	shale	PAC
	OH	22.52	22.61	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	22.61	22.74	Conemaugh Group	siltstone	shale	PAC
	OH	22.74	22.93	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	22.93	23.50	Conemaugh Group	siltstone	shale	PAC
	OH	23.50	23.71	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	23.71	23.97	Conemaugh Group	siltstone	shale	PAC
	OH	23.97	30.70	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	30.70	30.81	Conemaugh Group	siltstone	shale	PAC
	OH	30.81	31.16	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Mainlines A and B	OH	31.16	31.48	Conemaugh Group	siltstone	shale	PAc
	OH	31.48	47.88	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	47.88	48.33	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	48.33	57.72	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	57.72	58.68	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	58.68	59.25	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	59.25	60.59	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	60.59	60.66	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	60.66	60.76	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	60.76	61.69	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	61.69	61.85	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	61.85	62.02	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	62.02	64.64	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	64.64	65.34	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	65.34	65.51	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	65.51	66.33	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	66.33	66.61	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
	OH	66.61	66.63	Allegheny and Pottsville Groups, Undivided	shale	siltstone	PAap
	OH	66.63	111.68	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Mainlines A and B	OH	111.68	116.11	Sunbury Shale	black shale		Ms
	OH	116.11	119.05	Berea Sandstone and Bedford Shale, Undivided	sandstone	shale	Dbb
	OH	119.05	127.66	Ohio Shale	black shale	shale	Do
	OH	127.66	130.63	Olentangy Shale	shale	limestone	Dol
	OH	130.63	131.63	Delaware Limestone	limestone		Dd
	OH	131.63	134.93	Columbus Limestone	limestone	dolostone (dolomite)	Dc
	OH	134.93	137.96	Salina Group	dolostone (dolomite)	shale	Ss
	OH	137.96	138.69	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg
	OH	138.69	139.28	Salina Group	dolostone (dolomite)	shale	Ss
	OH	139.28	141.99	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg
	OH	141.99	145.93	Lockport Dolomite	dolostone (dolomite)		SI
	OH	145.93	147.70	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg
	OH	147.70	153.02	Lockport Dolomite	dolostone (dolomite)		SI
	OH	153.02	153.83	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg
	OH	153.83	169.29	Lockport Dolomite	dolostone (dolomite)		SI
	OH	169.29	169.75	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg
	OH	169.75	173.58	Tymochtee and Greenfield Formations, Undivided	dolostone (dolomite)	shale	Stg

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Mainlines A and B	OH	173.58	183.47	Salina Group	dolostone (dolomite)	shale	Ss
	OH	183.47	184.95	Detroit River Group	dolostone (dolomite)	evaporite	Ddr
	OH	184.95	191.57	Dundee Limestone	limestone	dolostone (dolomite)	Ddu
	OH	191.57	194.77	Traverse Group	dolostone (dolomite)	shale	Dts
	OH	194.77	209.39	Antrim Shale	shale	black shale	Da
Market Segment	OH	0.00	8.70	Antrim Shale	shale	black shale	Da
	OH	8.70	12.11	Sunbury and Bedford Formations, Undivided	shale	black shale	MDsd
	OH	12.11	16.12	Antrim Shale	shale	black shale	Da
	OH	16.12	19.97	Sunbury and Bedford Formations, Undivided	shale	black shale	MDsd
	OH	19.97	21.53	Coldwater Shale	shale		Mc
	OH	21.53	24.45	Sunbury and Bedford Formations, Undivided	shale	black shale	MDsd
	OH	24.45	27.39	Coldwater Shale	shale		Mc
	MI	27.39	74.15	Coldwater Shale	shale	limestone	Mc
	MI	74.15	79.00	Marshall Sandstone	sandstone	siltstone	Mm
	MI	79.00	79.54	Coldwater Shale	shale	limestone	Mc
	MI	79.54	80.27	Marshall Sandstone	sandstone	siltstone	Mm
	MI	80.27	85.73	Coldwater Shale	shale	limestone	Mc
	MI	85.73	93.33	Marshall Sandstone	sandstone	siltstone	Mm
	MI	93.33	93.88	Michigan Formation	shale	black shale	Mmi
	MI	93.88	94.36	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	94.36	96.63	Saginaw Formation	sandstone	shale	PAs

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Market Segment	MI	96.63	97.23	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	97.23	100.77	Michigan Formation	shale	black shale	Mmi
	MI	100.77	101.52	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	101.52	102.77	Saginaw Formation	sandstone	shale	PAs
	MI	102.77	103.46	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	103.46	103.78	Michigan Formation	shale	black shale	Mmi
	MI	103.78	104.60	Coldwater Shale	shale	limestone	Mc
	MI	104.60	105.20	Michigan Formation	shale	black shale	Mmi
	MI	105.20	114.15	Coldwater Shale	shale	limestone	Mc
	MI	114.15	114.84	Marshall Sandstone	sandstone	siltstone	Mm
	MI	114.84	115.24	Michigan Formation	shale	black shale	Mmi
	MI	115.24	115.57	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	115.57	119.61	Saginaw Formation	sandstone	shale	PAs
	MI	119.61	120.88	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	120.88	122.41	Michigan Formation	shale	black shale	Mmi
	MI	122.41	122.96	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	122.96	127.37	Saginaw Formation	sandstone	shale	PAs
	MI	127.37	127.47	Bayport Limestone	limestone	dolostone (dolomite)	Mb
	MI	127.47	131.64	Michigan Formation	shale	black shale	Mmi
	MI	131.64	134.38	Marshall Sandstone	sandstone	siltstone	Mm

TABLE 6A-3
Bedrock Geology Crossed by the Pipelines

Pipeline Segment	State	Begin MP	End MP	Formation	Description		Map Symbol
					Primary	Secondary	
Market Segment	MI	134.38	135.51	Michigan Formation	shale	black shale	Mmi
	MI	135.51	136.26	Marshall Sandstone	sandstone	siltstone	Mm
	MI	136.26	139.45	Michigan Formation	shale	black shale	Mmi
	MI	139.45	147.03	Marshall Sandstone	sandstone	siltstone	Mm
	MI	147.03	150.25	Michigan Formation	shale	black shale	Mmi
	MI	150.25	169.14	Marshall Sandstone	sandstone	siltstone	Mm
	MI	169.14	197.17	Coldwater Shale	shale	limestone	Mc
	MI	197.17	201.69	Sunbury Shale	black shale		DMS
	MI	201.69	206.42	Berea Sandstone	sandstone	siltstone	Db
	MI	206.42	209.41	Bedford Shale	shale	sandstone	Dbd
	MI	209.41	209.56	water	water	water	water

Sources: USGS 2007a; USGS, 2007b; USGS, 2008.

TABLE 6A-4
Bedrock at the Aboveground Facilities

Facility	County, State	Formation	Description		Map Symbol
			Primary	Secondary	
Supply Laterals:					
Sherwood Compressor Station	Doddridge, WV	Dunkard Group	sandstone	siltstone	Pd
		Monongahela Group	sandstone	siltstone	PAm
CGT Receipt Meter Station	Doddridge, WV	Dunkard Group	sandstone	siltstone	Pd
Seneca Compressor Station	Noble, OH	Dunkard Group	shale	siltstone	PAm
	Noble, OH	Monangahela Group	mudstone	shale	PPAd
Hall Receipt Meter Station	Monroe, OH	Conemaugh Group	siltstone	shale	PAc
Gulfport Receipt Meter Station	Monroe, OH	Dunkard Group	shale	siltstone	PAm
Berne Receipt Meter Station	Noble, OH	Monongahela Group	shale	siltstone	PAm
Clarrington Compressor Station	Monroe, OH	Dunkard Group	mudstone	shale	PPAd
Majorsville Compressor Station	Marshall, WV	Dunkard Group	sandstone	siltstone	Pd
Cadiz Compressor Station	Harrison, OH	Monongahela Group	shale	siltstone	PAm
Burgettstown Compressor Station	Washington, PA	Casselman Formation	shale	siltstone	PAcc
		Monongahela Group	limestone	shale	PAm
Mainlines:					
Mainline 1 Compressor Station	Carroll, OH	Conemaugh Group	siltstone	shale	PAc
Mainline 2 Compressor Station	Wayne, OH	Maxville Limestone; Rushville, Logan, and Cuyhoga Formations, Undivided	shale	siltstone	Mlc
Mainline 3 Compressor Station	Crawford, OH	Olentangy Shale	shale	limestone	Dol
Defiance Compressor Station	Defiance, OH	Antrim Shale	shale	black shale	Da
ANR Delivery Meter Station	Defiance, OH	Antrim Shale	shale	black shale	Da
Consumers Energy Delivery Meter Station	Washtenaw, MI	Coldwater Shale	shale	limestone	Mc
Michigan Consolidated Delivery Meter Station	Shiawassee, MI	Coldwater Shale	shale	limestone	Mc
Sources: USGS, 2007a; USGS, 2007b; and USGS, 2008.					

TABLE 6A-5
Surface Mines within 0.25 mile of the Pipelines

Pipeline Segment	Begin MP	End MP	Distance/ Direction*	Name/Owner	Material	Status
Supply Laterals:						
Sherwood Lateral	--	--	--	--	None identified	--
CGT Lateral	--	--	--	--	None identified	--
Seneca Lateral	23.74	23.75	0	QUARTO MINING CO	Coal	Active
	23.77	23.82	0	QUARTO MINING CO	Coal	Active
Berne Lateral	0.35	0.35	-539	Christman Quarry	Stone, Crushed/Broken	Active
	1.19	1.19	1003.77	Christman Quarry	Limestone	Inactive
Clarington Lateral	5.11	6.15	-1058.93	CRAVAT COAL CO	Coal	Active
	6.28	6.39	-1025.94	BELMONT COAL INC	Coal	Active
	15.42	15.47	1020.9	MARIETTA COAL CO	Coal	Active
	16.01	16.65	0	R & F COAL CO	Coal	Active
	17.00	17.01	0	R & F COAL CO	Coal	Active
	17.06	17.06	0	R & F COAL CO	Coal	Active
	19.75	19.80	0	R & F COAL CO	Coal	Active
	19.82	19.84	0	R & F COAL CO	Coal	Active
	20.47	20.89	0	R & F COAL CO	Coal	Active
	20.91	20.92	0	R & F COAL CO	Coal	Active
	21.84	22.47	-1189.15	BANNOCK COAL CO	Coal	Active
	22.07	22.19	0	R & F COAL CO	Coal	Active
	22.23	25.67	-1201.44	THE OHIO RIVER COLLIERIES CO	Coal	Active
	22.62	22.63	1206.36	BANNOCK COAL CO	Coal	Active
	26.32	27.25	0	CONSOLIDATION COAL CO	Coal	Active
	27.36	27.53	0	CONSOLIDATION COAL CO	Coal	Active
	27.71	27.82	0	CONSOLIDATION COAL CO	Coal	Active

TABLE 6A-5
Surface Mines within 0.25 mile of the Pipelines

Pipeline Segment	Begin MP	End MP	Distance/ Direction*	Name/Owner	Material	Status
Clarington Lateral	28.08	28.24	0	R & F COAL CO	Coal	Active
	28.23	28.27	-917.28	CONSOLIDATION COAL CO	Coal	Active
	28.27	28.31	0	CONSOLIDATION COAL CO	Coal	Active
	29.31	29.91	0	CONSOLIDATION COAL CO	Coal	Active
	30.14	30.41	0	CONSOLIDATION COAL CO	Coal	Active
	30.71	30.72	0	ENSURCO ASSOCIATES INC	Limestone	Active
	30.84	30.85	0	ENSURCO ASSOCIATES INC	Limestone	Active
Majorsville Lateral	22.41	22.56	0	CRAVAT COAL CO	Coal	Active
Cadiz Lateral	0.00	0.94	0	CONSOLIDATION COAL CO	Coal	Active
Burgettstown Lateral	15.24	15.35	0	Unknown	Coal	Active
	15.51	15.52	0	Unknown	Coal	Active
	20.22	20.31	0	S & D CONSTRUCTION CORP	Coal	Active
	25.52	25.67	-1035.26	THE OHIO RIVER COLLIERIES CO	Coal	Active
Supply Connector Lines A and B	2.19	3.09	0	R & F COAL CO	Coal	Active
	3.16	3.37	0	R & F COAL CO	Coal	Active
	16.14	16.38	0	PUSKARICH MINING INC	Coal	Active
Mainlines:						
Mainlines A and B	25.47	25.84	-965.429	PUSKARICH MINING INC	Clay	Active
	25.85	25.90	0	PUSKARICH MINING INC	Clay	Active
	26.02	26.05	0	PUSKARICH MINING INC	Clay	Active
	30.32	30.68	1047.91	RED MALCUT INC	Coal	Active
	30.83	31.41	0	RED MALCUT INC	Coal	Active
	32.18	32.70	0	MILLER MINING INC	Coal	Inactive
	38.84	38.86	0	COUNTYWIDE LANDFILL INC	Coal	Inactive

TABLE 6A-5
Surface Mines within 0.25 mile of the Pipelines

Pipeline Segment	Begin MP	End MP	Distance/ Direction*	Name/Owner	Material	Status
Mainlines A and B	39.26	39.27	0	COUNTYWIDE LANDFILL INC	Coal	Inactive
	46.08	46.11	0	WILMOT MINING CO	Coal	Inactive
	51.87	52.78	1047.91	MULLET COAL CO	Coal	Active
	55.32	57.85	835.66	SALT CREEK CORP	Coal	Active
Market Segment	173.36	174.85	161.02	Farley's Clay Pit	Clay	Inactive
<p>Sources: ODNr, 2014; PASDA, 2014; USGS, 2014e; WVGS, 2014.</p> <p>Notes: * = Units are in feet. Distance of 0.0 indicates the permitted footprint of a surface mine is crossed. Direction: positive number is either north or east of the centerline; negative number is either west or south. Underground mines have no distance or direction.</p>						

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Supply Laterals:				
Sherwood Lateral	0.00	-1220.92	Unknown	Active Well
	0.00	-1220.26	Unknown	Active Well
	0.00	726.57	Gas Well	Active Well
	0.00	727.52	Gas Well	Active Well
	0.01	-499.75	Unknown	Active Well
	0.01	-514.18	Gas Well	Active Well
	0.19	-1145.06	Unknown	Active Well
	0.19	-1133.85	Gas Well	Active Well
	0.34	208.67	Unknown	Active Well
	0.34	-583.02	Unknown	Active Well
	0.34	205.66	Gas Well	Active Well
	0.50	-772.50	Gas Well	Active Well
	0.50	-750.47	Unknown	Active Well
	0.64	32.05	Unknown	Active Well
	0.65	18.11	Gas Well	Active Well
	1.06	-933.38	Unknown	Active Well
	1.06	-929.96	Gas Well	Active Well
	1.23	745.55	Unknown	Active Well
	1.23	736.36	Gas Well	Active Well
	1.43	296.15	Gas Well	Active Well
	1.43	302.51	Unknown	Active Well
	1.59	692.95	Gas Well	Active Well
	1.59	688.90	Unknown	Active Well
	1.61	-988.57	Unknown	Active Well
	1.62	-986.51	Gas Well	Active Well
	1.68	-706.18	Unknown	Active Well
	1.68	-691.82	Gas Well	Active Well
	1.84	224.80	Gas Well	Active Well
	1.84	228.97	Unknown	Active Well
	2.04	690.35	Unknown	Active Well
	2.04	692.04	Gas Well	Active Well
	2.13	-154.99	Gas Well	Active Well
	2.13	-155.66	Unknown	Active Well
	2.21	-1163.24	Unknown	Active Well
	2.26	242.90	Unknown	Active Well
	2.26	246.51	Gas Well	Active Well
	2.42	1296.50	Gas Well	Active Well
	2.42	1293.57	Unknown	Active Well
	2.59	-1222.72	Unknown	Active Well
	2.59	-1226.14	Gas Well	Active Well
	3.10	-1008.32	Gas Well	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	3.10	-1000.37	Unknown	Active Well
	3.83	-195.42	Unknown	Active Well
	3.83	-178.18	Gas Well	Active Well
	3.98	-836.98	Gas Well	Active Well
	4.42	-435.15	Gas Well	Active Well
	4.42	-432.19	Unknown	Active Well
	4.43	-1033.33	Unknown	Active Well
	4.43	-1028.02	Gas Well	Active Well
	4.58	-338.87	Gas Well	Active Well
	4.58	-345.17	Unknown	Active Well
	4.79	711.56	Unknown	Active Well
	4.79	699.03	Gas Well	Active Well
	5.02	-121.42	Gas Well	Active Well
	5.02	-115.38	Unknown	Active Well
	5.02	-763.68	Unknown	Active Well
	5.02	-765.72	Gas Well	Active Well
	5.24	300.31	Unknown	Active Well
	5.24	301.03	Gas Well	Abandoned Well
	5.48	1313.43	Unknown	Active Well
	5.54	-518.60	Unknown	Active Well
	5.54	-531.14	Gas Well	Active Well
	5.90	1311.30	Unknown	Active Well
	5.91	1317.14	Gas Well	Active Well
	5.92	-1281.21	Gas Well	Active Well
	5.93	-1274.00	Unknown	Active Well
	6.08	-819.41	Gas Well	Active Well
	6.08	-809.71	Unknown	Active Well
	6.18	201.65	Gas Well	Active Well
	6.18	211.56	Unknown	Active Well
	6.30	-982.92	Gas Well	Active Well
	6.30	-992.68	Unknown	Active Well
	6.38	612.45	Gas Well	Active Well
	6.38	601.10	Unknown	Active Well
	6.76	1225.30	Gas Well	Active Well
	6.76	1228.22	Unknown	Active Well
	7.04	50.70	Gas Well	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	7.04	47.90	Unknown	Active Well
	7.45	-547.17	Unknown	Active Well
	7.45	-545.70	Gas Well	Active Well
	7.74	661.89	Gas Well	Active Well
	7.74	646.19	Unknown	Active Well
	8.06	-396.61	Unknown	Active Well
	8.06	-395.01	Gas Well	Active Well
	8.34	-173.05	Unknown	Active Well
	8.35	-188.22	Gas Well	Active Well
	8.57	-619.71	Unknown	Active Well
	8.57	-629.06	Gas Well	Active Well
	8.62	-723.11	Unknown	Active Well
	8.62	-729.66	Gas Well	Active Well
	8.65	751.46	Gas Well	Active Well
	8.65	757.03	Unknown	Active Well
	8.88	531.16	Unknown	Active Well
	8.88	532.55	Gas Well	Active Well
	9.04	-438.10	Unknown	Active Well
	9.05	-1082.13	Unknown	Active Well
	9.06	-1080.15	Gas Well	Active Well
	9.18	-210.35	Gas Well	Active Well
	9.18	-222.65	Unknown	Active Well
	9.24	468.98	Unknown	Active Well
	9.44	568.15	Unknown	Active Well
	9.44	571.15	Gas Well	Active Well
	9.59	952.26	Unknown	Active Well
	9.61	201.04	Unknown	Active Well
	9.61	-721.16	Unknown	Active Well
	9.61	199.91	Gas Well	Active Well
	9.72	-1119.20	Gas Well	Active Well
	9.72	-1110.72	Unknown	Active Well
	9.78	-841.72	Unknown	Active Well
	9.85	-93.11	Unknown	Active Well
	9.98	-938.04	Unknown	Active Well
	9.99	291.11	Unknown	Active Well
	10.00	574.64	Unknown	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	10.06	-1243.33	Unknown	Active Well
	10.06	-1256.64	Gas Well	Active Well
	10.14	223.16	Gas Well	Active Well
	10.14	204.56	Unknown	Active Well
	10.33	-960.21	Unknown	Active Well
	10.33	-965.25	Unknown	Active Well
	10.42	-281.90	Unknown	Active Well
	10.56	274.94	Unknown	Active Well
	10.56	275.35	Gas Well	Active Well
	10.79	-1182.72	Unknown	Active Well
	10.81	-572.66	Unknown	Active Well
	10.81	-579.52	Unknown	Active Well
	11.04	621.32	Gas Well	Active Well
	11.04	636.88	Unknown	Active Well
	11.33	-575.80	Gas Well	Active Well
	11.33	-571.72	Unknown	Active Well
	11.47	877.13	Unknown	Active Well
	11.47	870.58	Gas Well	Active Well
	11.70	1253.83	Unknown	Active Well
	11.70	1267.38	Gas Well	Active Well
	11.81	-270.02	Unknown	Active Well
	11.81	-278.45	Gas Well	Active Well
	11.87	-688.55	Unknown	Active Well
	11.87	-679.46	Gas Well	Active Well
	11.91	-872.96	Gas Well	Active Well
	11.91	-871.37	Unknown	Active Well
	11.97	840.09	Gas Well	Active Well
	11.97	830.47	Unknown	Active Well
	12.01	-288.89	Unknown	Active Well
	12.01	-300.48	Gas Well	Active Well
	12.07	-434.83	Gas Well	Active Well
	12.07	-446.07	Unknown	Active Well
	12.34	-354.79	Unknown	Active Well
	12.35	-360.55	Gas Well	Active Well
	12.54	830.00	Unknown	Active Well
	12.54	835.12	Gas Well	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	12.76	-732.24	Unknown	Active Well
	12.76	-732.19	Gas Well	Active Well
	12.89	630.50	Gas Well	Active Well
	12.89	628.40	Unknown	Active Well
	13.10	-277.11	Unknown	Active Well
	13.10	-289.06	Unknown	Active Well
	13.21	491.21	Gas Well	Active Well
	13.21	505.56	Unknown	Active Well
	13.21	505.90	Gas Well	Active Well
	13.40	-906.52	Unknown	Active Well
	13.40	-892.89	Unknown	Active Well
	13.54	985.13	Gas Well	Active Well
	13.54	971.02	Unknown	Active Well
	13.56	-615.49	Gas Well	Active Well
	13.56	-609.28	Gas Well	Active Well
	13.80	40.38	Unknown	Active Well
	13.81	44.71	Unknown	Active Well
	13.88	1282.31	Gas Well	Active Well
	13.88	1277.14	Unknown	Active Well
	13.92	-1241.42	Gas Well	Active Well
	13.92	-1248.43	Gas Well	Active Well
	13.95	-242.64	Unknown	Active Well
	13.96	-252.35	Gas Well	Active Well
	14.02	535.88	Unknown	Active Well
	14.02	555.22	Unknown	Active Well
	14.23	-55.20	Unknown	Active Well
	14.23	-43.89	Unknown	Active Well
	14.28	727.24	Unknown	Active Well
	14.28	744.05	Gas Well	Active Well
	14.48	10.80	Gas Well	Active Well
	14.49	25.38	Unknown	Active Well
	14.51	-1012.86	Gas Well	Active Well
	14.51	-1024.61	Unknown	Active Well
	14.62	38.91	Gas Well	Active Well
	14.62	38.91	Gas Well	Active Well
	14.72	61.87	Unknown	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	14.72	78.01	Gas Well	Active Well
	14.95	-222.08	Gas Well	Active Well
	14.95	-212.81	Unknown	Active Well
	15.09	-972.39	Gas Well	Active Well
	15.09	-971.39	Unknown	Active Well
	15.29	724.55	Unknown	Active Well
	15.35	230.65	Gas Well	Active Well
	15.35	234.64	Unknown	Active Well
	15.58	-538.71	Unknown	Active Well
	15.58	-551.94	Gas Well	Active Well
	15.83	576.78	Unknown	Active Well
	15.83	589.91	Unknown	Active Well
	16.17	-804.67	Gas Well	Active Well
	16.17	-792.60	Gas Well	Active Well
	16.28	173.31	Unknown	Active Well
	16.28	176.10	Unknown	Active Well
	16.40	-615.24	Gas Well	Active Well
	16.40	-624.45	Unknown	Active Well
	16.71	-949.35	Gas Well	Active Well
	16.71	-948.28	Unknown	Active Well
	16.89	804.82	Unknown	Active Well
	16.89	805.75	Unknown	Active Well
	16.89	813.75	Unknown	Active Well
	17.11	60.02	Gas Well	Active Well
	17.11	59.70	Gas Well	Active Well
	17.11	58.94	Unknown	Active Well
	17.41	-1311.79	Unknown	Active Well
	17.41	-1299.25	Unknown	Active Well
	17.62	-1029.73	Unknown	Active Well
	17.62	-1039.87	Gas Well	Active Well
	17.62	-1039.14	Unknown	Active Well
	18.33	-489.98	Unknown	Active Well
	18.33	-490.43	Gas Well	Active Well
	18.34	-487.32	Unknown	Active Well
	18.46	244.88	Unknown	Active Well
	18.46	256.21	Unknown	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	18.46	255.33	Unknown	Active Well
	18.64	156.08	Unknown	Active Well
	18.64	156.03	Unknown	Active Well
	18.64	148.19	Gas Well	Active Well
	18.66	1102.80	Unknown	Active Well
	18.66	1103.67	Unknown	Active Well
	18.66	1111.73	Gas Well	Active Well
	20.43	572.44	Gas Well	Active Well
	20.43	572.44	Gas Well	Active Well
	20.44	610.34	Gas Well	Active Well
	20.44	610.34	Gas Well	Active Well
	20.44	610.34	Gas Well	Active Well
	20.44	610.34	Gas Well	Active Well
	20.44	598.29	Gas Well	Active Well
	20.44	573.98	Gas Well	Active Well
	20.44	573.98	Gas Well	Active Well
	27.34	573.13	Unknown	Active Well
	27.34	580.48	Gas Well	Active Well
	28.19	-585.47	Unknown	Active Well
	28.19	-586.65	Unknown	Active Well
	28.37	-415.67	Gas Well	Active Well
	28.37	-414.27	Unknown	Active Well
	28.62	-561.30	Unknown	Active Well
	28.63	-575.59	Unknown	Active Well
	28.67	-144.08	Unknown	Active Well
	28.67	-134.12	Unknown	Active Well
	28.76	1212.61	Unknown	Active Well
	30.82	437.79	Unknown	Active Well
	30.82	433.56	Unknown	Active Well
	30.90	-1064.93	Unknown	Active Well
	30.90	-1058.00	Unknown	Active Well
	35.14	743.58	Unknown	Active
	35.90	-52.83	Gas	Active
	37.44	706.21	Gas	Active
	37.44	743.98	Gas	Active
	37.44	737.42	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Sherwood Lateral	43.50	-1222.89	Oil	Active
	44.13	-143.42	Unknown	Active
	45.60	1112.06	Unknown	Active
	46.13	793.86	Oil	Active
	47.25	1155.35	Gas	Active
	48.56	736.44	Unknown	Active
	50.62	851.97	Unknown	Active
CGT Lateral	0.00	-1200.93	Unknown	Active Well
	0.00	-1190.51	Gas Well	Active Well
	0.00	713.32	Gas Well	Active Well
	0.00	724.48	Unknown	Active Well
	0.01	758.49	Unknown	Active Well
	0.20	-380.49	Gas Well	Active Well
	0.20	-387.12	Unknown	Active Well
	1.06	634.37	Unknown	Active Well
	1.06	646.73	Gas Well	Active Well
	1.23	-656.80	Gas Well	Active Well
	1.23	-656.87	Unknown	Active Well
	1.52	628.22	Unknown	Active Well
	1.52	636.62	Gas Well	Active Well
	1.59	-964.47	Gas Well	Active Well
	1.59	-964.26	Unknown	Active Well
	1.72	429.57	Unknown	Active Well
	1.72	428.31	Gas Well	Active Well
	1.74	-856.30	Gas Well	Active Well
	1.74	-846.34	Unknown	Active Well
	1.93	593.10	Unknown	Active Well
	1.93	578.73	Gas Well	Active Well
	2.61	354.21	Gas Well	Active Well
	2.62	349.80	Unknown	Active Well
	2.67	-30.93	Unknown	Active Well
	2.67	-32.79	Gas Well	Active Well
	2.92	-721.65	Gas Well	Active Well
	2.92	-715.52	Unknown	Active Well
	2.99	58.10	Gas Well	Abandoned Well
	3.12	-594.41	Gas Well	Abandoned Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
CGT Lateral	3.29	923.74	Gas Well	Abandoned Well
	3.43	-543.62	Gas Well	Active Well
	3.43	-540.67	Unknown	Active Well
	3.97	-376.58	Gas Well	Active Well
	3.97	-365.58	Unknown	Active Well
	4.68	539.25	Unknown	Active Well
	4.68	533.05	Gas Well	Active Well
	4.80	1120.28	Unknown	Active Well
	4.80	1127.97	Gas Well	Active Well
	5.07	-108.68	Unknown	Active Well
	5.07	-92.56	Gas Well	Active Well
	5.34	-372.17	Unknown	Active Well
	5.34	-359.91	Gas Well	Active Well
	5.40	224.78	Gas Well	Active Well
	5.40	227.53	Unknown	Active Well
	5.66	725.04	Unknown	Active Well
	5.66	728.97	Gas Well	Active Well
	5.70	-641.60	Gas Well	Active Well
	5.70	-627.12	Unknown	Active Well
Seneca Lateral	0.69	-108.59	Gas	Active
	1.00	785.84	Oil and gas	Active
	1.14	883.55	Gas	Active
	1.53	1312.72	Gas	Active
	2.40	111.26	Gas	Active
	2.59	-201.16	Gas	Active
	2.68	-1165.57	Gas	Active
	2.78	-1169.47	Oil and gas	Active
	2.89	467.29	Oil and gas	Active
	3.36	-1253.12	Gas	Active
	3.42	-40.89	Oil and gas	Active
	3.64	307.62	Gas	Active
	3.80	1270.48	Oil and gas	Active
	3.89	360.12	Oil and gas	Active
	4.42	-36.76	Oil and gas	Active
	4.42	104.22	Oil and gas	Active
	4.53	302.08	Oil	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Seneca Lateral	4.76	892.86	Oil and gas	Active
	5.14	176.68	Gas	Active
	5.23	916.93	Oil and gas	Active
	6.11	-601.20	Oil and gas	Active
	6.13	838.82	Gas	Active
	6.38	-321.32	Gas	Active
	6.45	-1143.40	Gas	Active
	6.74	125.61	Gas	Active
	6.83	-1235.35	Gas	Active
	7.01	336.38	Gas	Active
	7.06	475.07	Gas	Active
	7.25	666.86	Gas	Active
	7.28	-280.44	Gas	Active
	7.51	-220.14	Oil	Active
	7.84	759.75	Gas	Active
	8.11	-1300.35	Oil and gas	Active
	8.32	604.49	Oil and gas	Active
	8.33	-428.68	Gas	Active
	8.44	-608.24	Gas	Active
	8.58	1191.43	Oil and gas	Active
	8.87	-718.69	Gas	Active
	8.89	-874.41	Oil and gas	Active
	8.98	876.45	Oil and gas	Active
	9.12	266.14	Gas	Active
	9.12	-959.29	Oil and gas	Active
	9.18	-713.45	Oil	Active
	9.36	271.66	Gas	Active
	9.71	752.78	Gas	Active
	10.15	-469.61	Oil	Active
	10.47	848.63	Oil and gas	Active
	10.62	420.98	Oil and gas	Active
	10.70	1264.78	Oil	Active
	10.77	317.61	Oil and gas	Active
	11.57	-230.03	Oil	Active
	11.80	-761.97	Oil	Active
	12.07	-524.15	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Seneca Lateral	12.11	1125.89	Gas	Active
	12.67	-237.17	Oil and gas	Active
	12.83	651.28	Oil and gas	Active
	13.26	-439.37	Oil	Active
	13.26	-10.77	Oil	Active
	14.09	-25.98	Gas	Active
	14.54	1033.98	Oil and gas	Active
	18.52	-567.03	Oil	Active
	19.30	-1313.88	Gas	Active
	20.09	-388.23	Oil and gas	Active
	20.28	698.91	Oil and gas	Active
	21.31	732.73	Oil and gas	Active
	21.40	-75.32	Unknown	Active
	21.47	-856.74	Unknown	Active
	21.94	173.93	Unknown	Active
	24.63	-291.33	Unknown	Active
Berne Lateral	0.18	-454.88	Gas	Active
	0.84	-31.14	Oil and gas	Active
	1.13	391.13	Oil and gas	Active
	1.28	-1034.82	Unknown	Active
	1.38	-1190.67	Oil and gas	Active
	1.99	-1021.10	Gas	Active
	3.43	-903.55	Gas	Active
	3.57	-805.89	Unknown	Active
	3.87	88.62	Gas	Active
Clarington Lateral	0.53	-1072.66	Unknown	Active
	0.71	-314.29	Unknown	Active
	1.18	917.70	Unknown	Active
	1.21	274.67	Unknown	Active
	2.97	85.80	Unknown	Active
	3.39	-485.93	Oil and gas	Active
	3.52	473.12	Oil and gas	Active
	3.72	-1004.01	Oil and gas	Active
	3.93	517.78	Unknown	Active
	4.05	-1241.49	Unknown	Active
	6.43	969.27	Unknown	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Clarington Lateral	7.79	-21.37	Oil	Active
	7.98	929.67	Oil	Active
	8.02	-922.99	Oil and gas	Active
	8.02	-922.99	Oil and gas	Active
	8.51	1018.22	Unknown	Active
	8.90	814.56	Gas	Active
	9.53	672.13	Gas	Active
	18.39	780.52	Gas	Active
	22.86	-1057.83	Oil and gas	Active
	24.92	1118.36	Oil and gas	Active
	24.92	1145.25	Oil and gas	Active
	25.29	345.90	Gas	Active
	29.80	410.97	Oil and gas	Active
	29.93	-824.90	Gas	Active
	31.37	365.88	Gas	Active
Majorsville Lateral	0.16	-215.82	Unknown	Active Well
	1.02	-388.72	Gas Well	Active Well
	1.02	-364.17	Gas Well	Active Well
	1.02	-364.17	Gas Well	Active Well
	1.02	-364.17	Gas Well	Active Well
	1.02	-364.17	Gas Well	Active Well
	1.99	-239.45	Gas Well	Active Well
	1.99	-211.42	Gas Well	Active Well
	1.99	-211.42	Gas Well	Active Well
	1.99	-183.40	Gas Well	Active Well
	2.43	1074.02	Gas Well	Active Well
	2.43	1074.02	Gas Well	Active Well
	2.43	1074.15	Unknown	Active Well
	2.43	1010.34	Gas Well	Active Well
	2.43	1010.34	Gas Well	Active Well
	2.43	1010.34	Gas Well	Active Well
	2.43	1010.34	Gas Well	Active Well
	2.43	1011.01	Unknown	Active Well
	2.43	1011.01	Unknown	Active Well
	2.43	1011.01	Unknown	Active Well
	2.44	978.23	Unknown	Active Well
	2.44	978.51	Gas Well	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Majorsville Lateral	2.44	992.15	Unknown	Active Well
	2.44	992.53	Gas Well	Active Well
	2.44	1024.00	Gas Well	Active Well
	2.44	1024.00	Gas Well	Active Well
	2.44	1024.00	Gas Well	Active Well
	2.44	1024.56	Unknown	Active Well
	10.32	-419.97	Gas Well	Active Well
	10.61	1241.87	Gas Well	Active Well
	17.90	847.25	Oil and gas	Active
	17.91	371.70	Oil and gas	Active
	19.19	437.91	Oil	Active
	19.19	1241.90	Gas	Active
	19.20	1002.17	Oil	Active
	19.31	425.61	Oil	Active
	19.37	1010.34	Gas	Active
	19.87	80.42	Gas	Active
	20.03	-223.13	Gas	Active
Cadiz Lateral	2.08	-997.17	Unknown	Active
Burgettstown Lateral	2.68	374.23	Oil	Active
	3.10	333.22	Oil	Active
	3.17	-1305.65	Oil	Active
	3.88	-1173.82	Oil	Active
	3.95	-2.20	Oil	Active
	4.16	339.00	Oil	Active
	4.52	-612.35	Gas	Active
	4.59	-1153.80	Oil	Active
	5.07	588.53	Oil	Active
	5.07	985.48	Oil	Active
	5.07	1302.10	Oil	Active
	6.80	-760.72	Oil	Active
	10.89	-797.36	Gas Well	Active Well
	13.13	-500.46	Gas Well	Active Well
	13.14	-784.17	Unknown	Active Well
	13.20	-1178.77	Gas Well	Active Well
	13.23	-417.70	Unknown	Active Well
	13.37	563.25	Gas Well	Active Well

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Burgettstown Lateral	13.41	-764.29	Gas Well	Active Well
	13.42	811.89	Unknown	Active Well
	15.16	1071.94	Gas Well	Active Well
	17.80	-208.06	Oil	Active
	17.83	291.24	Oil	Active
	17.94	1152.90	Oil	Active
	20.33	-193.46	Oil	Active
	20.39	832.44	Oil	Active
	20.45	-145.89	Oil	Active
	20.45	364.26	Oil	Active
	20.48	27.17	Oil	Active
	20.53	1273.37	Oil	Active
	20.60	-1316.53	Oil	Active
	20.64	-763.13	Oil	Active
	20.67	-1299.56	Oil	Active
	22.42	200.44	Oil	Active
	22.78	-1022.45	Oil	Active
	22.80	-727.44	Oil	Active
	23.87	-260.35	Oil	Active
	25.78	-922.01	Oil and gas	Active
	26.46	-1234.93	Gas	Active
	28.86	-1103.72	Unknown	Active
	29.48	761.46	Gas	Active
	29.69	-207.12	Gas	Active
	29.77	698.77	Gas	Active
	30.45	402.65	Unknown	Active
	31.39	1243.12	Unknown	Active
	37.22	-1252.02	Oil	Active
	37.38	453.64	Oil and gas	Active
	37.38	475.56	Oil and gas	Active
	37.41	-572.69	Oil	Active
	37.47	194.47	Oil	Active
	37.48	-156.75	Oil	Active
	37.52	-554.37	Oil	Active
	37.57	-148.65	Oil	Active
	37.72	1286.06	Oil and gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Burgettstown Lateral	37.95	1265.31	Oil and gas	Active
	37.95	1238.25	Oil and gas	Active
	37.96	1273.11	Oil and gas	Active
	37.96	1246.05	Oil and gas	Active
	37.96	1254.84	Oil and gas	Active
	38.71	861.60	Oil and gas	Active
	38.72	842.74	Oil and gas	Active
	40.27	692.48	Oil and gas	Active
	40.27	666.78	Oil and gas	Active
	40.27	690.91	Oil and gas	Active
	40.27	665.21	Oil and gas	Active
	40.28	689.34	Oil and gas	Active
	40.28	663.64	Oil and gas	Active
	41.03	624.82	Oil and gas	Active
	41.03	605.05	Oil and gas	Active
	41.03	625.26	Oil and gas	Active
	41.03	605.49	Oil and gas	Active
	41.03	625.70	Oil and gas	Active
	41.04	605.94	Oil and gas	Active
	42.87	-989.33	Gas	Active
	44.33	-769.99	Oil and gas	Active
	46.19	-1227.58	Gas	Active
	47.02	-992.21	Oil and gas	Active
	48.29	439.16	Unknown	Active
	48.72	-856.31	Oil and gas	Active
	49.66	534.46	Oil	Active
	49.92	987.66	Oil	Active
	49.99	341.61	Unknown	Active
	50.15	-716.57	Unknown	Active
	50.53	-202.31	Unknown	Active
	50.84	-397.75	Unknown	Active
	50.98	-1242.72	Oil and gas	Active
	51.12	967.33	Unknown	Active
	51.20	-933.25	Oil	Active
	51.43	1041.47	Oil and gas	Active
	51.48	-817.91	Oil and gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Supply Cononector Lines A and B	1.13	213.55	Gas	Active
	3.03	390.40	Gas	Active
	4.71	31.83	Gas	Active
	5.30	606.82	Oil	Active
	5.94	729.04	Unknown	Active
	6.86	604.33	Unknown	Active
	8.56	729.13	Unknown	Active
	8.87	340.75	Gas	Active
	9.79	273.30	Unknown	Active
	11.40	142.59	Oil	Active
	12.40	305.93	Unknown	Active
	14.75	469.75	Unknown	Active
	15.06	580.36	Unknown	Active
	15.35	967.67	Oil	Active
	15.40	1107.88	Oil	Active
	15.95	841.90	Oil	Active
	16.50	996.12	Gas	Active
	16.96	306.08	Unknown	Active
	17.00	865.40	Unknown	Active
	17.78	168.98	Gas	Active
	18.08	673.84	Unknown	Active
	18.23	77.87	Unknown	Active
	18.73	894.35	Unknown	Active
	18.93	341.98	Unknown	Active
Mainlines:				
Mainlines A and B	1.14	331.61	Unknown	Active
	2.77	-306.34	Gas	Active
	3.11	-624.37	Unknown	Active
	4.02	-1316.29	Gas	Active
	4.07	1051.42	Gas	Active
	4.12	-667.46	Gas	Active
	4.77	-172.24	Unknown	Active
	5.29	-369.91	Oil and gas	Active
	5.85	-914.31	Oil and gas	Active
	5.87	894.01	Unknown	Active
	6.10	-838.62	Oil and gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	6.88	-97.83	Unknown	Active
	8.50	-473.79	Oil and gas	Active
	8.50	-491.93	Oil and gas	Active
	8.50	-456.31	Oil and gas	Active
	8.50	-510.07	Oil and gas	Active
	8.50	-474.45	Oil and gas	Active
	8.50	-492.59	Oil and gas	Active
	8.83	824.73	Gas	Active
	9.80	-322.41	Oil and gas	Active
	9.80	-344.31	Oil and gas	Active
	11.43	-188.91	Unknown	Active
	12.48	865.08	Unknown	Active
	12.82	-1049.24	Oil and gas	Active
	12.90	995.76	Unknown	Active
	13.16	841.59	Unknown	Active
	13.26	-325.96	Unknown	Active
	13.36	-1255.58	Gas	Active
	13.83	-287.57	Oil and gas	Active
	14.35	500.77	Oil and gas	Active
	14.73	422.80	Oil and gas	Active
	15.01	-129.61	Oil and gas	Active
	15.17	-1157.26	Oil and gas	Active
	15.36	728.87	Unknown	Active
	15.40	-497.58	Oil and gas	Active
	15.88	630.61	Oil and gas	Active
	16.48	609.28	Oil	Active
	16.55	1144.79	Oil	Active
	16.75	146.71	Oil	Active
	16.90	605.43	Oil	Active
	17.02	606.61	Unknown	Active
	17.07	1175.01	Oil	Active
	17.21	-95.30	Oil and gas	Active
	17.53	-310.33	Oil and gas	Active
	17.61	607.52	Oil and gas	Active
	17.73	-1130.56	Oil and gas	Active
	17.83	220.26	Oil and gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	18.00	-544.35	Oil and gas	Active
	18.15	756.96	Oil and gas	Active
	18.20	-242.82	Oil and gas	Active
	18.56	-270.57	Oil and gas	Active
	18.76	525.95	Oil and gas	Active
	18.98	-435.07	Oil and gas	Active
	19.20	-1226.54	Oil and gas	Active
	19.22	716.63	Oil and gas	Active
	19.35	-288.06	Oil and gas	Active
	19.57	238.84	Oil and gas	Active
	19.64	1115.90	Oil and gas	Active
	19.77	-488.85	Oil and gas	Active
	20.10	-143.46	Oil and gas	Active
	20.36	-278.25	Oil and gas	Active
	20.80	-94.93	Unknown	Active
	20.97	-1298.44	Oil	Active
	21.07	560.53	Unknown	Active
	21.26	974.08	Oil and gas	Active
	21.26	-530.30	Unknown	Active
	21.37	87.83	Unknown	Active
	21.49	-820.85	Unknown	Active
	21.70	-1024.30	Unknown	Active
	21.75	219.17	Oil	Active
	21.93	833.58	Oil and gas	Active
	22.28	-625.30	Oil and gas	Active
	22.34	972.64	Oil and gas	Active
	22.54	-646.17	Oil and gas	Active
	22.72	691.01	Oil and gas	Active
	22.99	91.24	Oil	Active
	23.19	28.30	Oil	Active
	23.43	-124.26	Oil	Active
	23.63	933.88	Oil	Active
	24.08	570.34	Oil and gas	Active
	24.26	-588.75	Oil and gas	Active
	24.37	340.70	Oil and gas	Active
	24.54	-517.66	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	24.57	-430.85	Oil and gas	Active
	24.59	1125.95	Oil and gas	Active
	24.77	141.38	Oil	Active
	24.81	-1114.23	Oil and gas	Active
	24.98	1102.81	Oil and gas	Active
	25.06	-409.14	Oil	Active
	25.27	343.22	Oil	Active
	25.30	-830.89	Oil	Active
	25.49	-573.44	Oil and gas	Active
	25.62	245.09	Oil and gas	Active
	26.03	-1189.56	Oil and gas	Active
	26.14	540.97	Oil and gas	Active
	26.48	1038.08	Oil and gas	Active
	26.75	-395.66	Oil and gas	Active
	27.04	-497.08	Oil and gas	Active
	27.08	987.47	Oil and gas	Active
	27.29	-332.66	Oil and gas	Active
	27.35	314.90	Oil	Active
	27.35	847.36	Gas	Active
	27.56	96.77	Oil	Active
	27.61	164.01	Oil and gas	Active
	27.63	645.60	Oil	Active
	27.75	-590.49	Oil and gas	Active
	27.93	351.27	Oil and gas	Active
	28.02	-953.75	Oil and gas	Active
	28.15	-655.55	Oil and gas	Active
	28.37	222.51	Oil and gas	Active
	28.49	-692.17	Oil and gas	Active
	28.64	-1064.14	Oil and gas	Active
	28.76	152.06	Oil and gas	Active
	28.99	54.09	Oil and gas	Active
	29.10	1151.12	Oil and gas	Active
	29.34	426.51	Oil and gas	Active
	29.57	1198.20	Oil and gas	Active
	29.59	-298.67	Oil and gas	Active
	29.70	-1208.47	Oil	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	29.78	-854.92	Oil and gas	Active
	29.83	413.47	Oil and gas	Active
	30.09	-783.58	Oil and gas	Active
	30.11	964.46	Oil and gas	Active
	30.31	-1197.02	Oil and gas	Active
	30.52	-536.53	Oil and gas	Active
	30.65	1113.93	Oil and gas	Active
	30.77	340.73	Oil and gas	Active
	30.82	-692.61	Oil and gas	Active
	31.07	-199.40	Oil and gas	Active
	31.08	877.80	Unknown	Active
	31.33	-394.64	Oil and gas	Active
	31.35	1282.88	Oil and gas	Active
	31.64	239.82	Oil and gas	Active
	31.76	1170.48	Oil and gas	Active
	31.87	167.46	Oil and gas	Active
	32.13	424.43	Oil and gas	Active
	32.33	1165.93	Oil and gas	Active
	32.53	1262.63	Gas	Active
	32.76	-385.14	Oil and gas	Active
	32.98	1007.34	Gas	Active
	33.13	-633.28	Oil and gas	Active
	33.16	562.14	Gas	Active
	33.36	526.00	Oil and gas	Active
	33.53	-962.35	Gas	Active
	33.63	667.86	Gas	Active
	33.84	1189.72	Gas	Active
	33.87	33.65	Gas	Active
	33.98	-1283.52	Oil	Active
	34.35	278.29	Oil and gas	Active
	34.55	1071.52	Gas	Active
	34.70	-316.17	Oil and gas	Active
	35.17	1304.73	Oil and gas	Active
	35.36	1069.07	Oil and gas	Active
	35.89	-518.09	Oil and gas	Active
	36.22	-1190.64	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	36.47	-251.68	Gas	Active
	36.82	-180.66	Gas	Active
	37.06	240.73	Gas	Active
	37.33	-47.36	Gas	Active
	37.39	-917.08	Gas	Active
	37.98	329.03	Gas	Active
	38.23	-440.13	Gas	Active
	38.69	279.90	Gas	Active
	38.70	-795.91	Oil and gas	Active
	39.02	-282.46	Oil and gas	Active
	39.33	-390.07	Oil and gas	Active
	39.60	-64.98	Gas	Active
	39.88	-357.15	Oil and gas	Active
	39.88	1195.44	Oil and gas	Active
	40.66	-331.12	Oil and gas	Active
	40.96	-45.78	Oil and gas	Active
	41.06	199.71	Oil and gas	Active
	41.19	1308.64	Oil and gas	Active
	41.48	-139.96	Oil and gas	Active
	41.56	-1208.93	Oil and gas	Active
	41.73	91.67	Oil and gas	Active
	42.08	714.36	Oil and gas	Active
	42.10	-854.72	Oil and gas	Active
	42.42	616.85	Oil and gas	Active
	42.49	-960.92	Oil and gas	Active
	42.75	519.17	Oil and gas	Active
	42.76	-830.14	Oil and gas	Active
	43.02	-974.47	Oil and gas	Active
	43.37	-519.08	Gas	Active
	43.43	867.80	Oil and gas	Active
	43.55	-291.77	Oil and gas	Active
	43.94	-221.76	Oil and gas	Active
	44.26	-175.89	Oil and gas	Active
	44.55	917.75	Oil and gas	Active
	44.58	-332.54	Oil and gas	Active
	44.95	-639.55	Oil and gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	45.65	-1318.11	Oil and gas	Active
	45.96	926.65	Oil and gas	Active
	46.14	-483.03	Oil and gas	Active
	46.40	1079.87	Gas	Active
	46.76	-618.58	Gas	Active
	47.62	-1082.68	Oil and gas	Active
	47.67	-389.37	Gas	Active
	47.76	1297.18	Oil and gas	Active
	48.14	-865.20	Oil and gas	Active
	48.36	501.98	Oil and gas	Active
	48.76	382.98	Gas	Active
	49.15	-260.17	Oil and gas	Active
	49.59	-229.45	Gas	Active
	49.88	-933.73	Gas	Active
	50.57	-854.74	Gas	Active
	51.06	-122.75	Gas	Active
	51.43	236.16	Oil and gas	Active
	51.44	108.00	Oil and gas	Active
	51.72	4.24	Gas	Active
	51.86	-793.94	Oil and gas	Active
	52.67	980.55	Gas	Active
	52.95	-786.97	Oil and gas	Active
	53.52	775.58	Oil and gas	Active
	53.62	-858.70	Oil and gas	Active
	53.73	-624.93	Gas	Active
	53.82	151.16	Oil and gas	Active
	54.26	-125.77	Gas	Active
	54.89	-1113.26	Gas	Active
	55.41	-61.37	Gas	Active
	56.99	991.78	Gas	Active
	57.60	-394.63	Gas	Active
	58.06	330.73	Gas	Active
	58.12	-1164.75	Gas	Active
	58.36	-263.75	Gas	Active
	58.88	574.10	Gas	Active
	60.01	-546.85	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	60.66	482.72	Oil and gas	Active
	66.87	-465.47	Gas	Active
	67.29	1164.38	Oil and gas	Active
	68.11	-762.90	Gas	Active
	68.13	1069.81	Oil	Active
	68.37	-1151.06	Oil and gas	Active
	68.41	-4.31	Gas	Active
	68.58	-775.01	Gas	Active
	69.65	779.21	Unknown	Active
	70.09	-274.09	Oil and gas	Active
	70.39	-1261.45	Oil and gas	Active
	70.68	-205.57	Oil and gas	Active
	71.29	-588.14	Oil and gas	Active
	71.58	-1038.92	Oil and gas	Active
	72.17	-1201.24	Oil and gas	Active
	72.24	920.40	Oil and gas	Active
	72.76	30.82	Oil and gas	Active
	72.81	-1073.54	Oil and gas	Active
	73.18	1218.10	Oil and gas	Active
	73.29	128.21	Oil and gas	Active
	73.68	-438.67	Gas storage	Active
	74.35	1198.63	Gas storage	Active
	74.49	-68.56	Gas storage	Active
	74.51	271.38	Gas	Active
	75.41	-744.75	Gas	Active
	75.42	1104.47	Oil and gas	Active
	75.85	358.42	Oil and gas	Active
	76.11	740.34	Oil and gas	Active
	76.23	-189.19	Oil and gas	Active
	76.39	918.82	Gas	Active
	76.60	1031.67	Oil and gas	Active
	76.66	267.74	Oil and gas	Active
	76.85	-90.83	Gas	Active
	77.34	-1032.30	Unknown	Active
	78.06	-745.28	Unknown	Active
	78.29	555.59	Unknown	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Mainlines A and B	78.41	-927.83	Unknown	Active
	78.86	-460.04	Unknown	Active
	79.10	900.29	Unknown	Active
	79.12	419.16	Gas	Active
	81.40	1101.54	Unknown	Active
	81.80	874.31	Unknown	Active
	83.38	-221.20	Unknown	Active
	86.20	1082.87	Unknown	Active
	88.99	-669.72	Unknown	Active
	89.11	835.50	Unknown	Active
	89.44	304.95	Unknown	Active
	89.82	778.41	Unknown	Active
	90.20	435.18	Unknown	Active
	137.72	1100.27	Unknown	Active
	138.36	1087.79	Unknown	Active
	139.13	148.88	Unknown	Active
	158.27	619.79	Gas	Active
	158.27	619.79	Gas	Active
	159.74	642.32	Oil	Active
	159.74	642.32	Oil	Active
	159.90	1012.50	Oil	Active
	159.90	1012.50	Oil	Active
	160.48	-1190.64	Unknown	Active
	167.05	-829.57	Gas	Active
	167.07	856.54	Unknown	Active
	167.14	854.04	Unknown	Active
	167.15	1109.65	Unknown	Active
	167.15	1118.67	Unknown	Active
	167.27	-1224.43	Gas	Active
	168.05	740.36	Gas	Active
	168.23	1309.20	Gas	Active
	170.95	444.51	Unknown	Active
	171.07	359.36	Oil	Active
Market Segment	30.93	393.50	Unknown	Plugging Approved
	31.13	781.28	Unknown	Plugging Approved
	31.46	234.06	Unknown	Plugging Approved

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Market Segment	31.51	-1021.45	Unknown	Plugging Approved
	31.71	541.96	Unknown	Plugging Approved
	31.90	-334.00	Unknown	Plugging Approved
	32.23	-656.61	Gas	Plugging Approved
	32.44	-1202.96	Oil	Plugging Approved
	47.10	-1036.72	Unknown	Producing
	47.10	-1088.85	Unknown	Producing
	47.28	-249.77	Unknown	Producing
	47.34	193.11	Unknown	Well Completed
	47.35	868.91	Unknown	Producing
	92.15	-902.84	Unknown	Plugging Approved
	94.05	499.45	Oil	Producing
	95.37	888.30	Unknown	Plugging Approved
	95.99	400.54	Unknown	Producing
	96.58	-1136.63	Unknown	Plugging Approved
	97.10	-709.39	Unknown	Producing
	98.31	986.46	Unknown	Plugging Approved
	105.51	-47.26	Unknown	Plugging Approved
	193.28	-648.42	Gas	Active
	193.33	-657.77	Gas	Active
	193.39	-257.79	Gas	Plugging Approved
	193.39	-1200.71	Gas	Active
	193.41	-1251.05	Gas	Active
	193.41	-685.80	Gas	Active
	193.45	-1047.00	Gas	Active
	193.45	-523.80	Gas	Active
	193.45	-648.49	Gas	Active
	193.46	-1105.96	Gas	Plugging Approved
	198.04	-708.50	Gas	Plugging Approved
	198.04	-707.61	Gas	Plugging Approved
	198.26	-808.95	Unknown	Plugging Approved
	198.29	569.11	Gas	Active
	206.01	39.51	Gas	Active
	206.07	-1259.81	Gas	Active
	206.15	-531.95	Gas	Active
	206.16	-1116.77	Gas	Active

TABLE 6A-6
Oil and Gas wells within 0.25 mile of the Pipelines

Pipeline Segment	MP	Distance/ Direction*	Well Type	Status
Market Segment	206.26	293.08	Gas	Active
	206.27	-471.10	Gas	Active
	206.27	176.65	Gas	Active
	206.28	-1152.99	Gas	Active
	206.28	296.58	Gas	Active
	206.30	300.08	Gas	Active
	206.39	988.27	Gas	Active
	206.39	78.43	Gas	Active
	206.46	216.76	Gas	Active
	206.54	-1124.03	Unknown	Active
	206.78	285.30	Unknown	Active
	208.24	-801.03	Unknown	Plugging Approved
<p>Sources: ODNR, 2014; PASDA, 2014; USGS, 2014e; WVGS, 2014. Notes: * = Units are in feet. Direction, positive number is either north or east of the centerline; negative number is either west or south.</p>				

TABLE 6A-7
Historic Earthquakes in the Project Area

Year	Hypocentral Depth	Magnitude	Magnitude Type ¹
1776	NA	NA	NA
1853	NA	4.6	FA
1875	NA	4.7	FA
1884	NA	4.8	FA
1900	NA	3.4	FA
1926	NA	3.8	FA
1930	NA	4.2	FA
1931	5	4.7	FA
1937	2	5	FA
1937	3	5.4	FA
1943	7	4.5	Mn
1947	2	4.6	Mn
1952	9	4	FA
1977	1	3.2	Mn
1984	5	2.5	Unk
1986	6.2	2.5	Unk
1986	10	4.4	Mw
1986	2	4.98	Mw
1987	5	2.7	Unk
1987	5	2.8	Unk
1987	5	3.8	Unk
1995	5	2.9	Unk
1998	5	4.5	Mw
1999	18	2.8	ML
2002	5	2.7	ML
2003	2.5	2.5	ML
2003	4.6	3.6	ML
2004	5	3.3	ML
2006	5	2.5	ML
2006	7	2.5	ML
2006	5	2.6	ML
2006	5	2.8	ML
2006	5	3.1	ML
2006	5	3.5	Mw
2007	5	2.8	ML
2007	5	3.4	ML
2008	5	3.1	ML
2009	5	2.6	ML
2010	18	2.5	ML
2010	5	2.6	ML
Sources: USGS			



TABLE 6A-7
Historic Earthquakes in the Project Area

Year	Hypocentral Depth	Magnitude	Magnitude Type ¹
¹ FA = Felt Area Magnitude; approximate equivalent to an mb value Mn = Nuttli magnitude ML = Local magnitude Mw = Moment magnitude Unk = Unknown magnitude scale NA = Not Applicable			

TABLE 6A-8
Landslide Hazard Areas

Pipeline Segment	From MP	To MP	Landslide Zone
Supply Laterals:			
Sherwood Lateral	0.00	53.00	High Susceptibility to landsliding and moderate incidence
CGT Lateral	0.00	5.70	High Susceptibility to landsliding and moderate incidence
Seneca Lateral	0.00	2.75	High Susceptibility to landsliding (More than 15%)
	2.75	25.60	High Susceptibility to landsliding and moderate incidence
Berne Lateral	0.00	0.31	High Susceptibility to landsliding and moderate incidence
	0.31	3.70	High Susceptibility to landsliding (More than 15%)
Clarrington Lateral	0.00	18.95	High Susceptibility to landsliding and moderate incidence
	18.95	32.64	High Susceptibility to landsliding (More than 15%)
Majorsville Lateral	0.00	23.55	High Susceptibility to landsliding and moderate incidence
Cadiz Lateral	0.00	2.94	High Susceptibility to landsliding (More than 15%)
Burgettstown Lateral	0.00	15.87	High Susceptibility to landsliding and moderate incidence
	15.87	42.32	High Susceptibility to landsliding (More than 15%)
	42.32	51.29	High Susceptibility to landsliding and Low incidence
Supply Connector Lines A and B	0.00	9.29	High Susceptibility to landsliding (More than 15%)
	9.29	18.88	High Susceptibility to landsliding and Low incidence
Mainlines:			
Mainline A and B	18.88	25.46	High Susceptibility to landsliding and Low incidence
	25.46	110.31	Low Landslide Incidence (Less than 1.5-15% land is involved in Landsliding)
	110.31	205.48	Moderate Landslide Incidence (Less than 1.5-15% land is involved in Landsliding)
Mainline A	205.48	209.38	Moderate Landslide Incidence (1.5-15% land is involved in Landsliding)
Market Segment	0.00	6.60	Moderate Landslide Incidence (1.5-15% land is involved in Landsliding)
	6.60	182.27	Low Landslide Incidence (Less than 1.5-15% land is involved in Landsliding)
	182.27	209.6	Moderate Landslide Incidence (1.5-15% land is involved in Landsliding)
Source: USGS, 1997b			