Temporary Stream Crossing									
County	Stream	Approximate Location	TR-55 (2-yr 24-hr storm) Q (cfs)	Normal Depth for 2-yr (ft)	Culvert Size (inches)	Number of Barrels	Inlet Control or Outlet Control at Normal Flow	Is 2-year Storm Conveyed?	HW/D for Design Flow
Seneca	DS-1	255+28	124.47	1.81	36	3	Inlet	Yes	1.07
Seneca	DS-3	343+05	345.48	3.64	36	3	Inlet	No*	2.65
Seneca	DS-9	508+71	92.85	2.43	36	1	Inlet	No*	1.87
Seneca	DS-6	581+45	29.26	1.35	24	2	Inlet	Yes	1.05
Seneca	DS-5	642+20	106.35	4.35	36	1	Outlet	No*	2.24
Seneca	DS-4	667+82	31.27	1.38	24	2	Inlet	Yes	1.10
Seneca	DS-11	687+25	121.58	3.80	36	1	Inlet	No*	2.27
Seneca	Stream 2	840+71	267.47	4.47	36	2	Inlet	No*	2.79
Seneca	CAB	904+00	-	-	-	-	-	-	-
Seneca	CAA	923+09	403.60	2.28	36	3	Inlet	No*	3.20
Seneca	CZ	938+78	227.10	1.67	36	3	Inlet	No*	1.74
Seneca	CS-12	980+22	228.54	2.47	36	3	Inlet	No*	1.79
Seneca	CS-13	1001+16	479.26	2.04	24	3	Inlet	No*	7.93
Seneca	CV	1068+00	59.90	0.99	36	2	Inlet	Yes	0.86
Seneca	CU	1131+66	510.48	1.24	36	3	Inlet	No*	4.04
Seneca	CS-17	1185+57	82.23	1.12	30	3	Inlet	Yes	1.10
Huron	Stream 1	1203+55	113.22	1.72	24	3	Outlet	No*	2.65
Huron	CO	1413+74	70.81	0.72	30	2	Outlet	Yes	1.36
Huron	CS-09	1648+83	136.06	1.31	36	2	Inlet	No*	1.54
Huron	CS-08	1663+72	113.29	1.45	36	3	Inlet	Yes	1.00
Huron	CS-07	1717+13	216.82	2.02	36	1	Inlet	No*	3.13
Huron	CS-06	1756+13	334.58	1.21	36	2	Inlet	No*	3.56
Huron	CS-05	1975+00	720.90	2.29	36	3	Inlet	No*	5.90
Huron	CS-04	1978+37	517.83	1.55	36	3	Inlet	No*	4.41
Huron	CS-03	1985+71	85.91	0.81	36	2	Inlet	Yes	1.10
Huron	CS-02	2009+77	664.81	2.21	36	1	Inlet	No*	7.06
Huron	CS-01	2084+96	470.36	2.02	36	3	Inlet	No*	3.98
Huron	BS-A	2143+00	82.23	2.01	36	3	Inlet	Yes	1.13
Huron	BS-E	2189+72	21.75	0.60	30	1	Inlet	Yes	0.94
Huron	BS-C	2201+88	37.52	0.92	30	2	Inlet	Yes	0.86

Huron	BS-D	2217+51	46.70	0.63	24	3	Inlet	Yes	1.15
Huron	BS-F	2237+93	204.96	1.21	36	3	Inlet	No*	1.58
Ashland	BS-G	9+70	278.04	2.33	36	3	Inlet	No*	2.20
Ashland	BS-H	22+65	306.88	1.25	36	3	Inlet	No*	2.31
Ashland	BS-I	28+19	8.89	0.79	24	1	Inlet	Yes	0.76
Ashland	BS-M	119+79	5.25	0.57	18	1	Inlet	Yes	0.86
Ashland	BS-N	128+11	519.09	6.28	36	3	Inlet	No*	3.96
Ashland	BS-O	181+84	172.88	1.04	36	3	Inlet	No*	1.36
Ashland	BS-P	237+90	253.57	1.79	36	3	Inlet	No*	1.89
Ashland	BS-Q	283+33	58.73	1.21	36	2	Inlet	Yes	0.85
Ashland	BS-R	321+53	32.49	0.97	24	3	Inlet	Yes	0.86
Ashland	BS-S	376+01	158.60	1.34	24	3	Outlet	No*	2.88
Ashland	BS-T	448+67	52.36	0.93	30	3	Inlet	Yes	0.86
Ashland	BS-U	466+40	114.90	1.59	36	2	Inlet	No*	1.36
Ashland	BS-X	510+17	967.65	4.69	36	3	Inlet	No*	7.76
Ashland	BS-W	516+32	7.34	0.39	18	1	Outlet	Yes	1.14
Ashland	BS-V	523+96	6.74	0.57	18	1	Outlet	Yes	1.02
Ashland	BS-Y	563+59	1.18	0.10	12	1	Inlet	Yes	0.65
Ashland	BAM	572+54	25.67	0.55	24	2	Inlet	Yes	0.96
Ashland	DS-17a	770+79	782.86	4.71	36	3	Inlet	No*	6.40
Ashland	DS-17	803+54	372.49	3.86	36	3	Inlet	No*	2.83
Ashland	DS-16	837+81	260.74	2.70	36	3	Inlet	No*	2.06
Ashland	DS-18	850+83	88.29	1.23	36	3	Inlet	Yes	0.85
Wayne	CS-14	940+95	271.46	3.36	36	3	Inlet	No*	2.15
Wayne	CS-15	991+00	11.98	0.92	24	1	Outlet	Yes	0.93
Wayne	Stream 10	1005+68	46.60	1.76	30	2	Inlet	Yes	0.99
Wayne	Stream 11	1011+29	27.34	1.30	30	1	Inlet	Yes	1.10
Wayne	CS-16	1037+37	347.84	4.93	36	3	Inlet	No*	2.95
Wayne	AS-26	1118+60	45.51	1.89	30	2	Inlet	Yes	0.97
Wayne	AS-25	1125+75	33.31	0.96	36	1	Inlet	Yes	0.92
Wayne	AS-23	1148+70	5.18	0.47	18	1	Inlet	Yes	0.85
Wayne	AS-22	1209+10	67.31	1.77	30	3	Inlet	Yes	0.96
Wayne	AAE	1239+34	81.32	2.39	36	2	Inlet	Yes	1.06
Wayne	AS-20	1259+92	204.47	3.62	36	3	Outlet	No*	1.91

Wayne	AS-21	1269+06	37.06	1.55	36	1	Inlet	Yes	0.99
Wayne	Stream 16	1290+85	31.88	1.14	36	1	Inlet	Yes	0.90
Wayne	AS-19	1312+36	31.99	1.42	36	1	Inlet	Yes	0.90
Wayne	AS-18	1373+30	218.54	2.87	36	3	Inlet	No*	1.67
Wayne	AS-17	1377+90	9.94	0.57	24	1	Inlet	Yes	0.82
Wayne	AS-16	1381+51	5.52	0.40	18	1	Inlet	Yes	0.89
Wayne	AS-15	1385+58	9.80	0.57	18	2	Inlet	Yes	0.82
Wayne	AS-13	1476+83	79.43	2.13	36	2	Inlet	Yes	1.04
Wayne	Stream 19	1521+72	92.42	2.12	36	3	Inlet	Yes	0.88
Wayne	AS-11	1612+16	63.14	1.86	36	2	Inlet	Yes	0.89
Wayne	AS-10	1625+09	297.76	4.30	36	3	Inlet	No*	2.25
Wayne	MS - 03	1784+00	88.34	2.02	36	2	Inlet	Yes	1.12
Wayne	MS - 01	1786+00	20.19	0.52	30	1	Inlet	Yes	0.93
Wayne	MS - 02	1786+00	0.65	0.27	12	1	Inlet	Yes	0.57

The Contractor may use a CMP culvert OR pump bypass stream crossing. Sandbags to be stacked at least 12-inches over crown of pipe.

*Culverts size is based on physical geometric constraints. Construction will be performed during optimum conditions.

ATTACHMENT 3
List of Approvals

ATTACHMENT 3
LIST OF APPROVALS

7. List all approvals or certifications and denials received from other federal, interstate, state of local agencies for any structures, construction, discharge or other activities described in this application.

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval	Date of Denial
Ohio EPA	401 Water Quality Certification	TBD	2/2013	TBD	
Ohio EPA	Isolated Wetland Permit (Buffalo District only)	TBD	2/2013	TBD	
USACE Huntingdon District	Preliminary JD	TBD	1/2013	TBD	
USACE Buffalo District	Combination Approved/Preliminary JD	TBD	1/2013	TBD	
USACE Huntingdon District	Nationwide 12	TBD	2/2013	TBD	
USACE Buffalo District	Nationwide 12	TBD	2/2013	TBD	
Ohio EPA	NPDES Permit	TBD	2/2013	TBD	
Ohio EPA	Hydrostatic Discharge Permit	TBD	2/2013	TBD	
Local County Conservation Districts (Seneca, Huron, Ashland and Wayne Counties)	Erosion and Sedimentation Control Plan	TBD	2/2013	TBD	

ATTACHMENT 4
Project Description

ATTACHMENT 4
PROJECT DESCRIPTION

8a. Describe the Overall Activity

Sunoco Pipeline, L.P., operating for Inland Corporation (Inland) proposes to install the Tiffin to Easton pipeline. This new 12-inch line will be installed primarily within the existing pipeline right-of-way (ROW) from the former Inland Tiffin Junction to the Easton Junction, approximately 82 miles in length. Land use within the project is a mix of agricultural land, forested land, herbaceous and scrub/shrub rangeland, residential and light commercial. Topographically the route is characterized by flat rolling fields and hills.

The proposed alignment will be installed in existing, maintained Inland-SPLP ROW, with the exception of the western most 4.5 miles which will be constructed within new ROW, and 4 minor reroute areas. These areas are located in existing residential and farmed areas. The existing ROW is 50-feet, with an additional temporary workspace for construction of the pipeline of 25 feet. This temporary workspace will not involve soil/ground disturbance. Total impact acreage for construction is approximately 950 acres.

Installation of the pipeline will involve a combination of traditional trenching and horizontal directional drilling (HDD). ***Attachment 5*** gives a detailed description of each wetland and stream crossing within the project, the construction methodology for crossing the resource, and the associated impact acreages.

Geotechnical and soil borings have been conducted for all HDD's to determine the appropriate depth required for the drill to eliminate frac-outs to the greatest extent possible. Additionally, the contractor will be required to have a site specific contingency plan in place in the event a frac-out does occur.

8b. Purpose: Describe the purpose, need and intended use of the activity

The purpose of this project is to transport refined products from the Midwest to markets in eastern Ohio and western Pennsylvania. This project is expected to have an initial capacity to deliver 85,000 barrels per day with the ability to scale up to 110,000 barrels per day. The project will create hundreds of construction jobs, and will secure a steady and direct supply of transportation fuels to eastern Ohio and western Pennsylvania.

8c. Discharge of dredged or fill material: Describe type, quantity of dredged material (in cubic yards), and quantity of fill material (in cubic yards).

This project will result in temporary impacts to wetlands and streams. Following construction, wetlands and streams will be re-graded to pre-existing contours and reseeded with a native seed mix. There will be no discharge of dredged or fill material into wetlands or streams.

ATTACHMENT 5
Impact Calculations and Reduction Measures