

Location	Company	Property	TYPE OF OPERATION		GEOLOGIC ENVIRONMENT			Date	LABORATORY TESTS		Remarks
			River Dredging	Open Pit	Out-Wash	Terrace Low	Terrace High		Other	Na ₂ SO ₄ % Loss - 5 cycles	
1	Warren Sand & Gravel Co.	Warren	X		X						
								8/2/70	8.44	A	B
								1/1/71	4.78		22.1
								11/1/70	5.74		26.3
											23.5
2	General Concrete Products Co.	Starbrick	X		X						
								7/7/70	5.37		25.4
								10/1/70	4.27		25.2
								12/1/70	3.49		21.8
								12/1/70	4.30		22.9
3	Oil City Sand and Gravel Co.	2-Mile Run	X		X						
								6/1/70	5.19		29.8
								10/1/70	6.57		31.3
								1/2/71	9.35		27.5
								11/1/70	4.90		26.9
4	General Concrete Products Co.	Foster Grant Pit		X		X					
								1/8/71	6.95		32.2
								2/1/71	9.39		32.4
								3/3/71	5.38		--
5	Tionesta Sand and Gravel Co., Inc.	Garland Pit		X	X						
								5/8/70	8.85		27.9
								12/1/70	7.54		25.6
								2/1/71	11.18		23.3
								6/2/70	8.47		24.6
								1/1/71	10.52		24.3
6	Tionesta Sand and Gravel Co., Inc.	Tidioute Pit		X		X					
								6/2/70	5.82		35.2
								11/1/70	5.86		32.0
								4/2/71	3.67		25.5
								11/1/70			28.2
7	Tionesta Sand and Gravel Co., Inc.	Sugar Property, West Hickory		X		X					
								2/1/72	7.29		26.6
8	Tionesta Sand and Gravel Co., Inc.	Hunter Station		X		X					
								4/27/71	5.52		28.8
								12/1/70	8.25		32.4
9	Conneaut Lake Sand & Gravel Co.	Conneaut Lake		X		X					
								6/8/72	8.25		22.6
								11/23/70	7.56		22.4
								11/14/69	6.15		22.9
10	Emlenton Limestone Co.	Conneaut Lake		X		X					
								1/18/71	8.52		

Composition of Gravel (PennDOT Lab.No. 73-32835): Greenish-gray to pale greenish-yellow, clay-rich siltstone (84%); tan to green-gray, fine to coarse-grained sandstone (12%); gneiss (4%). Some samples include chert (2%) and limestone (5%)

Qualified for use in bituminous concrete only on June 22, 1973 test. Composition of gravel (PennDOT Lab. No. 73-32834): tan to greenish-gray, very-fine to coarse grained sandstone (46%); green-gray to brown, micaceous to non-micaceous, clay-rich siltstone (46%); Chert (6%); gneiss (2%).

sive to laminated, clayey siltstone (42%); limestone (10%); chert (4%); gneiss (4%).