

DELTA SAND AND GRAVEL, INC.

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Summary of Septic System Fill Material

Delta Sand and Gravel, Inc. follows ASTM specifications for sampling and testing of aggregates. Products are tested at our in-house lab on a regular basis during production to ensure products are produced to specifications. Annually, independent testing is performed by an independent test lab.

Concrete Sand (562 Amherst Rd Pit)

- Concrete Sand is produced to meet ASTM C33, Fine Aggregate for Concrete
- ASTM C33 meets Title 5 Fill Material for Septic Systems
- Presby Septic System specifications require ASTM C33

Title 5 Sand (East Plum Tree Pit)

- Title 5 Sand at the East Plum Tree Pit is screened and tested to meet Title 5 Fill Material specification.
- Title 5 Sand at the East Plum Tree Pit is only available during summer months when the pit is open.

Title 5 Sand (562 Amherst Rd)

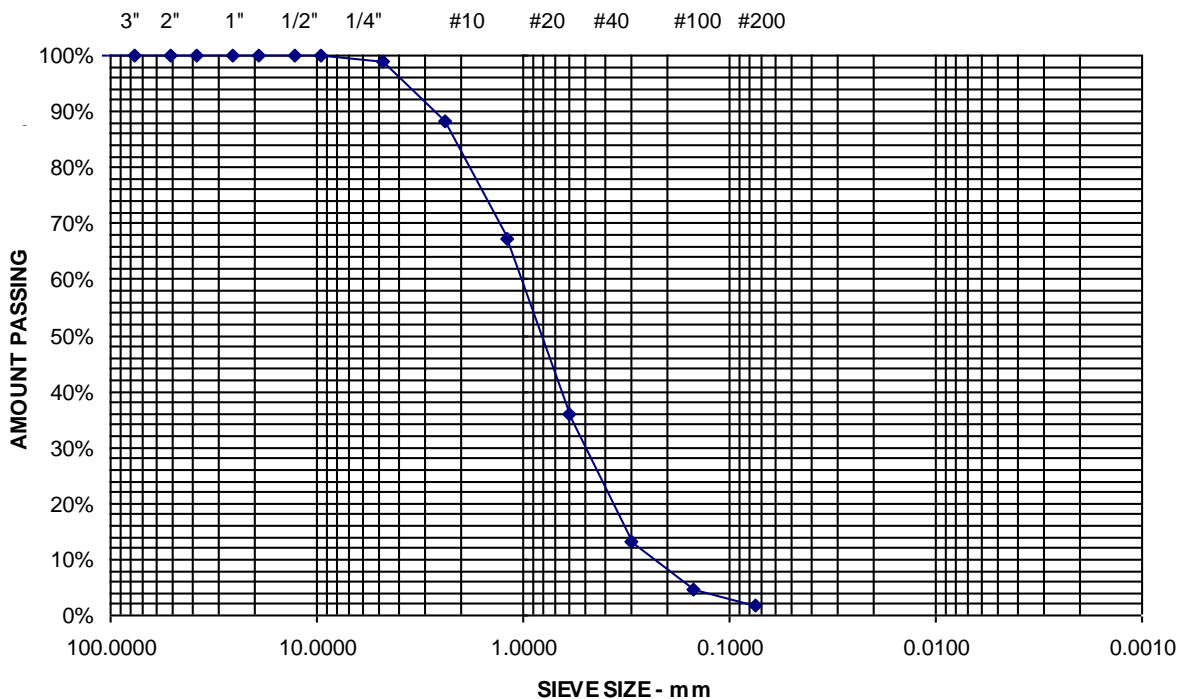
- Title 5 Sand at the Main Pit is screened and tested to meet Title 5 Fill Material specification.
- Title 5 Sand at the Main Pit is available in off-season months when the East Plum Tree Pit is closed.

Test results are attached.

Project Name	SUNDERLAND MA - 2017 SOIL AND AGGREGATE SOURCE TESTING	Project Number	17-0058
Client	DELTA SAND AND GRAVEL, INC.	Lab ID	2489M
Material Type	CONCRETE SAND	Date Received	2/21/2018
Material Source	GPO	Date Completed	3/5/2018
		Tested By	MARC HENNESSEY

<u>STANDARD</u> DESIGNATION (mm/μm)	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>AMOUNT PASSING NO. 4 (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	99	100
2.36 mm	No. 8	88	89
1.18 mm	No. 16	67	68
600 μm	No. 30	36	36
300 μm	No. 50	13	13
150 μm	No. 100	5	5
75 μm	No. 200	1.8	1.8

FM = 2.92



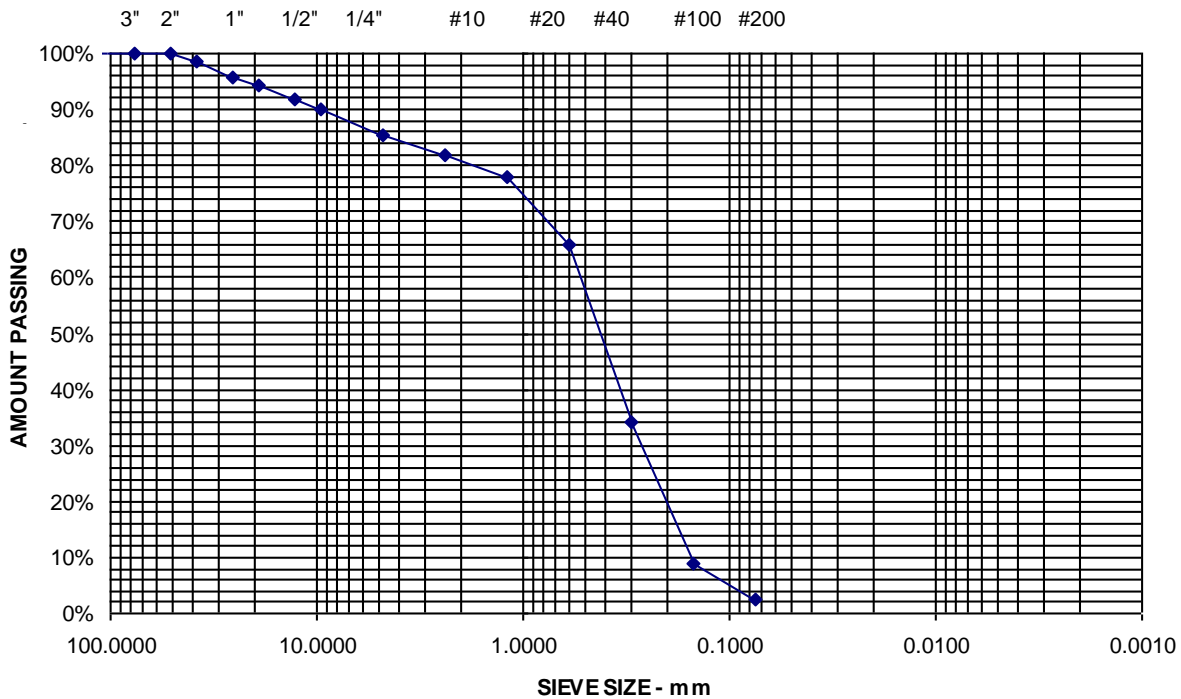
Comments



Project Name	SUNDERLAND MA - 2017 SOIL AND AGGREGATE SOURCE TESTING	Project Number	17-0058
Client	DELTA SAND AND GRAVEL, INC.	Lab ID	2494M
Material Type	TITLE 5 SAND	Date Received	2/21/2018
Material Source	EPT	Date Completed	2/26/2018
		Tested By	MARC HENNESSEY

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>AMOUNT PASSING NO.4 (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	99	
25.0 mm	1"	96	
19.0 mm	3/4"	94	
12.5 mm	1/2"	92	
9.5 mm	3/8"	90	
4.75 mm	No. 4	85	100
2.36 mm	No. 8	82	96
1.18 mm	No. 16	78	92
600 μm	No. 30	66	78
300 μm	No. 50	34	40
150 μm	No. 100	9	11
75 μm	No. 200	2.4	2.8

* OF THE FRACTION PASSING THE NO. 4 SIEVE

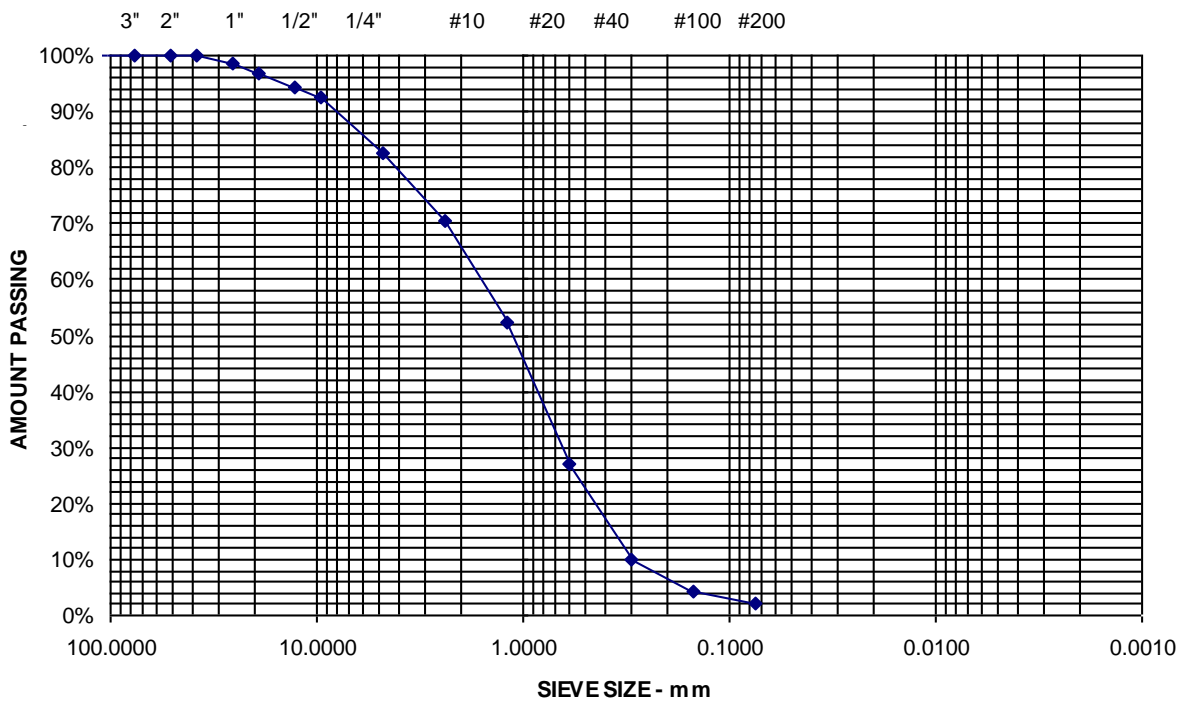


Comments



Project Name	SUNDERLAND MA - 2017 SOIL AND AGGREGATE SOURCE TESTING	Project Number	17-0058
Client	DELTA SAND AND GRAVEL, INC.	Lab ID	2490M
Material Type	TITLE 5 SAND	Date Received	2/21/2018
Material Source	GPO	Date Completed	3/5/2018
		Tested By	MARC HENNESSEY

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>AMOUNT PASSING NO. 4 (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	98	
19.0 mm	3/4"	97	
12.5 mm	1/2"	94	
9.5 mm	3/8"	92	
4.75 mm	No. 4	83	100
2.36 mm	No. 8	70	84
1.18 mm	No. 16	52	63
600 μm	No. 30	27	33
300 μm	No. 50	10	12
150 μm	No. 100	4	5
75 μm	No. 200	2.1	2.5



Comments

