

DELTA SAND AND GRAVEL, INC.

P.O. BOX 395 · SUNDERLAND, MA. 01375 · 413-665-4051 · FAX 413-665-8323

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 (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.

Title 5 Sand (East Plum Tree Pit)

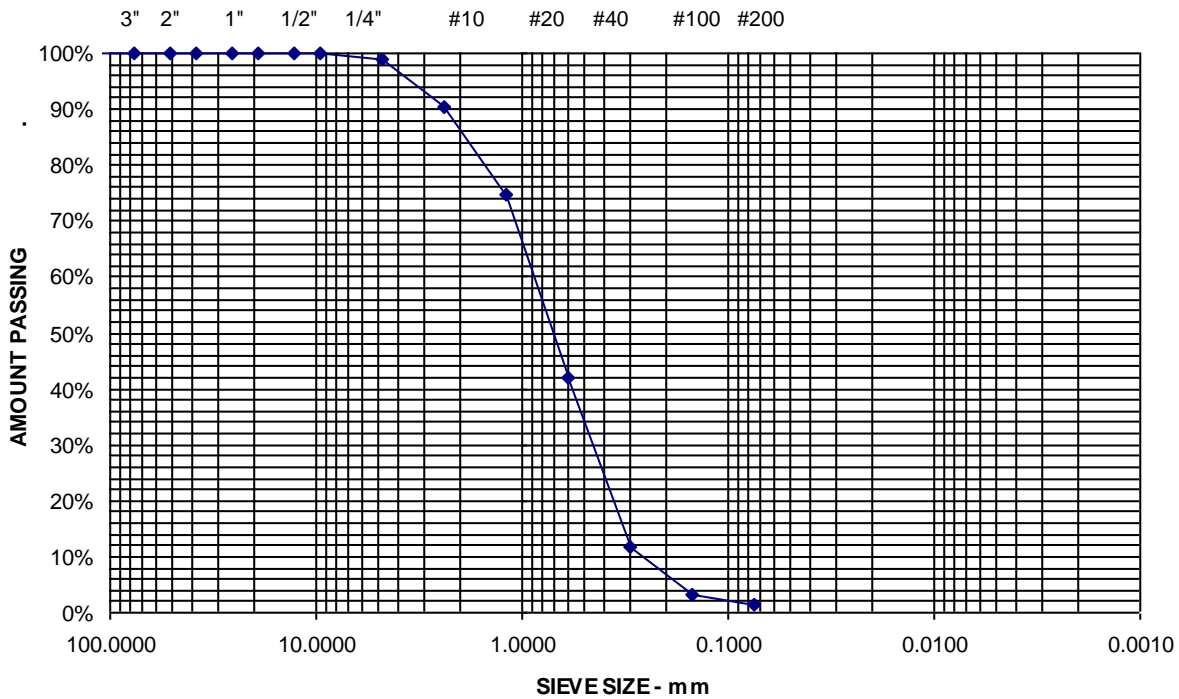
- Title 5 Sand at the East Plum Tree Pit is screened and tested to meet Title 5 Fill Material specification.
- Title 5 Sand at the East Plum Tree Pit is only available during summer months when the pit is open.

Test results are attached for your reference.

Project Name SUNDERLAND MA - SOILS AND AGGREGATE SOURCE TESTING SERVICES
 Client DELTA SAND AND GRAVEL, INC.
 Material Type CONCRETE SAND
 Material Source GPO

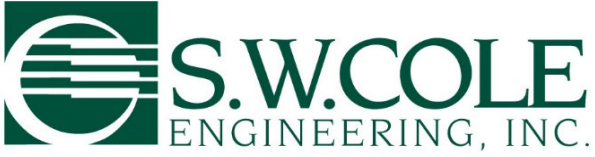
Project Number 22-1976
 Lab ID 7340M
 Date Received 2/15/2023
 Date Completed 2/22/2023
 Tested By DANIEL JACK

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>Amount Passing #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	91	91
1.18 mm	No. 16	75	75
600 μm	No. 30	42	42
300 μm	No. 50	12	12
150 μm	No. 100	3	3
75 μm	No. 200	1.4	1.4



Comments

Richard Smith



Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name:	Soils and Aggregate Source Testing Services	Project Number:	22-1976
Project Location:	Sunderland MA	Lab ID:	7340M
Client:	Delta Sand and Gravel, Inc.	Date Received:	02/15/23
Material Description:	Concrete Sand	Date Completed:	02/22/23
Material Source:	GPO	Tested By:	D. Jack

Color Indicator Plate Number 1

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

Comments:

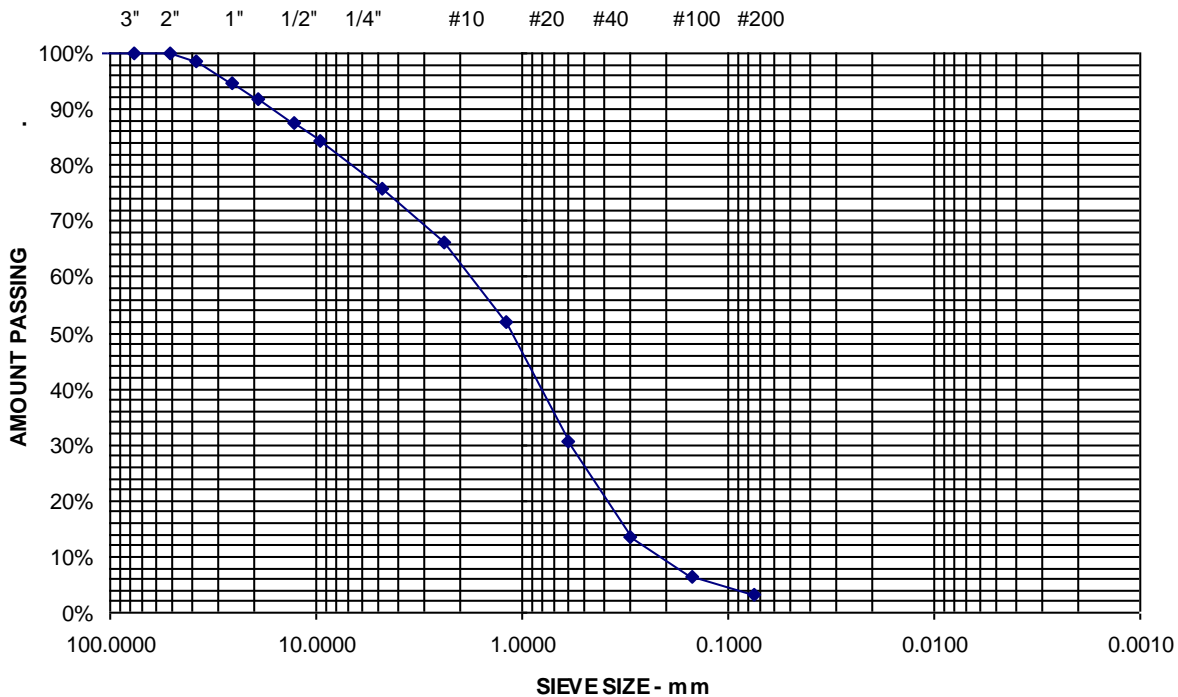
Reviewed By:

Richard Smith

Project Name SUNDERLAND MA - SOILS AND AGGREGATE SOURCE TESTING SERVICES
 Client DELTA SAND AND GRAVEL, INC.
 Material Type TITLE 5 SAND
 Material Source GPO

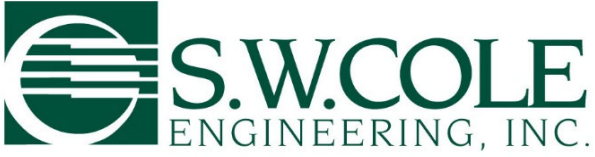
Project Number 22-1976
 Lab ID 7341M
 Date Received 2/15/2023
 Date Completed 2/20/2023
 Tested By DANIEL JACK

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>Amount Passing #4</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	98	
25.0 mm	1"	95	
19.0 mm	3/4"	92	
12.5 mm	1/2"	87	
9.5 mm	3/8"	84	
4.75 mm	No. 4	76	100
2.36 mm	No. 8	66	87
1.18 mm	No. 16	52	68
600 μm	No. 30	30	40
300 μm	No. 50	14	18
150 μm	No. 100	6	8
75 μm	No. 200	3.3	4.3



Comments

Richard Smith



Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name:	Soils and Aggregate Source Testing Services	Project Number:	22-1976
Project Location:	Sunderland MA	Lab ID:	7341M
Client:	Delta Sand and Gravel, Inc.	Date Received:	02/15/23
Material Description:	Title 5 Sand	Date Completed:	02/22/23
Material Source:	GPO	Tested By:	D. Jack

Color Indicator Plate Number **1**

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

Comments:

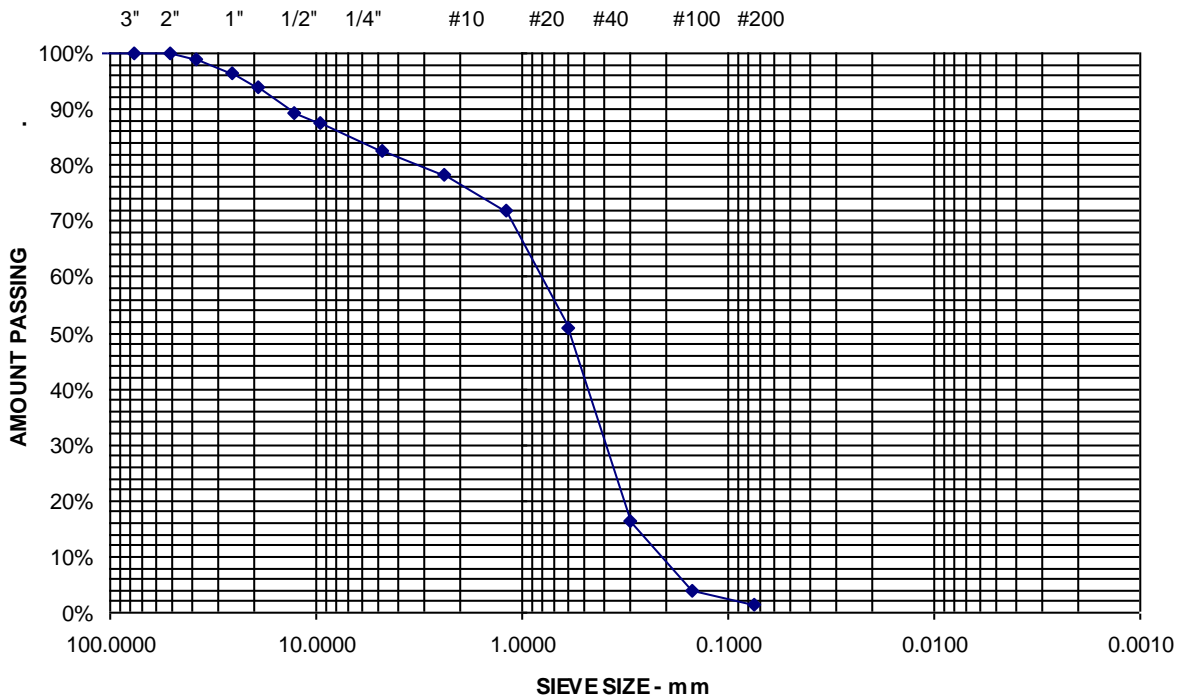
Reviewed By:

Richard Smith

Project Name SUNDERLAND MA - SOILS AND AGGREGATE SOURCE TESTING SERVICES
 Client DELTA SAND AND GRAVEL, INC.
 Material Type TITLE 5 SAND
 Material Source EPT

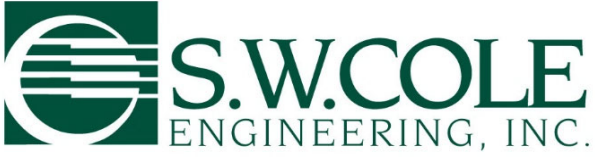
Project Number 22-1976
 Lab ID 7348M
 Date Received 2/15/2023
 Date Completed 2/22/2023
 Tested By DANIEL JACK

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>Amount Passing #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"	97	
19.0 mm	3/4"	94	
12.5 mm	1/2"	89	
9.5 mm	3/8"	87	
4.75 mm	No. 4	83	100
2.36 mm	No. 8	78	95
1.18 mm	No. 16	72	87
600 μm	No. 30	51	62
300 μm	No. 50	16	20
150 μm	No. 100	4	5
75 μm	No. 200	1.4	2.1



Comments

Richard Smith



Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name: Soils and Aggregate Source Testing Services
Project Location: Sunderland MA
Client: Delta Sand and Gravel, Inc.
Material Description: Title 5 Sand
Material Source: EPT

Project Number: 22-1976
Lab ID: 7340M
Date Received: 02/15/23
Date Completed: 02/22/23
Tested By: D. Jack

Color Indicator Plate Number **1**

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

Comments:

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