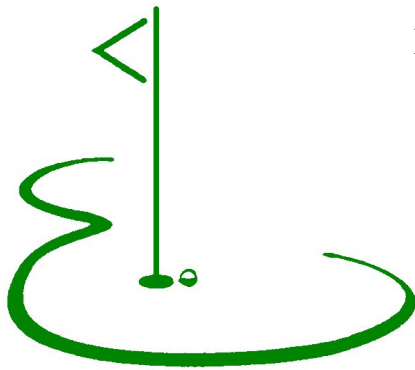




BROOKSIDE LABORATORIES, INC.
GEOTECHNICAL DIVISION
200 WHITE MOUNTAIN DRIVE
NEW BREMEN, OH 45869

**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
New York, NY

File Number: 78813

Date Received/Started : 10/23/2017
Date Completed/Reported: 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number	0015
Sample Description	SUNKEN MEADOWS FIELD #22
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.17
** D60: 0.49
** Coefficient of Uniformity: 2.85

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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
New York, NY

File Number : 78813
** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number 0015
Sample Description SUNKEN MEADOWS
FIELD #22

Particle Size Analysis

Clay	<.002mm	%	2.70
Silt	.002mm - .05mm	%	0.10
Sand	.05mm - 2.00mm	%	95.1
Gravel	> 2.0mm	%	2.1

Org Mat 360 deg C (LOI)	0.54
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Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	2.1
18 -	1.0	Very Coarse Sand	7.2
35 -	.500	Coarse Sand	28.6
60 -	.250	Medium Sand	43.6
100 -	.150	Fine Sand	11.0
140 -	.106	Very Fine Sand	3.4
270 -	.053	Very Fine Sand	1.5



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New York, NY

File Number: 78813

Date Received/Started : 10/23/2017
Date Completed/Reported: 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number
Sample Description

0016
EAST RIVER
FIELD #80

Sample Condition

XX Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.17
** D60: 0.50
** Coefficient of Uniformity: 2.97

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Randall's Island Park Alliance
20 Randall's Park
New York, NY

File Number : 78813
** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number	0016
Sample Description	EAST RIVER
	FIELD #80

Particle Size Analysis

Clay	<.002mm	%	1.60
Silt	.002mm - .05mm	%	2.50
Sand	.05mm - 2.00mm	%	94.1
Gravel	> 2.0mm	%	1.8

Org Mat 360 deg C (LOI)	1.00
-------------------------	------

Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	1.8
18 -	1.0	Very Coarse Sand	8.3
35 -	.500	Coarse Sand	29.7
60 -	.250	Medium Sand	41.6
100 -	.150	Fine Sand	10.4
140 -	.106	Very Fine Sand	2.6
270 -	.053	Very Fine Sand	1.4



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File Number: 78813

Date Received/Started : 10/23/2017
Date Completed/Reported: 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number	1803
Sample Description	PARKS CLAY
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.46
** Coefficient of Uniformity: 9.24

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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
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** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1803
Sample Description PARKS
CLAY

Particle Size Analysis

Clay	<.002mm	%	0.2
Silt	.002mm - .05mm	%	17.3
Sand	.05mm - 2.00mm	%	76.5
Gravel	> 2.0mm	%	6.0

Org Mat 360 deg C (LOI) 0.34

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	6.0
18 - 1.0	Very Coarse Sand	10.2
35 - .500	Coarse Sand	19.4
60 - .250	Medium Sand	28.8
100 - .150	Fine Sand	8.6
140 - .106	Very Fine Sand	4.3
270 - .053	Very Fine Sand	5.2



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File Number: 78813

Date Received/Started : 10/23/2017
Date Completed/Reported: 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number	1804
Sample Description	90/10 TOPDRESSING
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.20
** D60: 0.47
** Coefficient of Uniformity: 2.34

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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
New York, NY

File Number : 78813
** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1804
Sample Description 90/10
TOPDRESSING

Particle Size Analysis

Clay	<.002mm	%	0.2
Silt	.002mm - .05mm	%	1.5
Sand	.05mm - 2.00mm	%	97.1
Gravel	> 2.0mm	%	1.2

Org Mat 360 deg C (LOI)	1.15
-------------------------	------

Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	1.2
18 -	1.0	Very Coarse Sand	5.2
35 -	.500	Coarse Sand	26.5
60 -	.250	Medium Sand	51.1
100 -	.150	Fine Sand	11.8
140 -	.106	Very Fine Sand	1.9
270 -	.053	Very Fine Sand	0.6



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Date Received/Started : 10/23/2017
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Submitted By: Soil and Water Consulting

Lab Number	1805
Sample Description	INFIELD MIX FIELD #21
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.40
** Coefficient of Uniformity: 8.00

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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
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File Number : 78813
** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1805
Sample Description INFIELD MIX
FIELD #21

Particle Size Analysis

Clay	<.002mm	%	0.9
Silt	.002mm - .05mm	%	13.9
Sand	.05mm - 2.00mm	%	78.6
Gravel	> 2.0mm	%	6.6

Org Mat 360 deg C (LOI) 0.34

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	6.6
18 - 1.0	Very Coarse Sand	7.6
35 - .500	Coarse Sand	15.1
60 - .250	Medium Sand	26.7
100 - .150	Fine Sand	14.1
140 - .106	Very Fine Sand	7.7
270 - .053	Very Fine Sand	7.4



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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
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File Number: 78813

Date Received/Started : 10/23/2017
Date Completed/Reported: 10/25/2017

Submitted By: Soil and Water Consulting

Lab Number	1806
Sample Description	INFIELD MIX FIELD #22
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.37
** Coefficient of Uniformity: 7.35

*Reported values are an average of duplicated analysis

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**** PHYSICAL ANALYSIS REPORT ****

Randall's Island Park Alliance
20 Randall's Park
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File Number : 78813
** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1806
Sample Description INFIELD MIX
FIELD #22

Particle Size Analysis

Clay	<.002mm	%	0.2
Silt	.002mm - .05mm	%	14.4
Sand	.05mm - 2.00mm	%	81.0
Gravel	> 2.0mm	%	4.4

Org Mat 360 deg C (LOI) 0.45

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	4.4
18 - 1.0	Very Coarse Sand	7.4
35 - .500	Coarse Sand	14.9
60 - .250	Medium Sand	25.1
100 - .150	Fine Sand	14.7
140 - .106	Very Fine Sand	11.3
270 - .053	Very Fine Sand	7.6



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File Number: 78813

Date Received/Started : 10/23/2017
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Submitted By: Soil and Water Consulting

Lab Number	1807
Sample Description	INFIELD MIX FIELD #41
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.32
** Coefficient of Uniformity: 6.41

*Reported values are an average of duplicated analysis
*Sieved out large stones

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Randall's Island Park Alliance
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** Date of Analysis **
Start Date : 10/23/2017
Completed : 10/25/2017

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1807
Sample Description INFIELD MIX
FIELD #41

Particle Size Analysis

Clay	<.002mm	%	2.5
Silt	.002mm - .05mm	%	9.8
Sand	.05mm - 2.00mm	%	84.0
Gravel	> 2.0mm	%	3.7

Org Mat 360 deg C (LOI) 0.47

Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	3.7
18 -	1.0	Very Coarse Sand	7.5
35 -	.500	Coarse Sand	14.1
60 -	.250	Medium Sand	20.5
100 -	.150	Fine Sand	16.5
140 -	.106	Very Fine Sand	17.0
270 -	.053	Very Fine Sand	8.4
