

CC: COLBY OGLETREE

Phone: (210) 342-93 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S1

Issue No: 1

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ngagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S1 **Lift:**

Client Sample ID: Lab #242 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina
Specification: Backfill/General Fill
Supplier: In-situ material
Source: In-situ material

Material: Dk. Brown Fat Clay (CH), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Fat Clay (CH), Dk. Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	91.0	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	etermined	
Tested By	Ignacio	Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/15/2022	
Group Symbol	ASTM D 2487	CH	
Group Name		Fat clay	
Tested By	Davi	d Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	e ASTM D 4318		
Material retained on 425µm (No. 40) (%))	1.6	
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Oven	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	

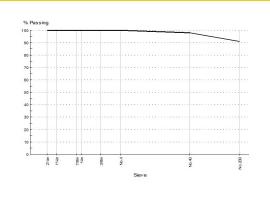
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	98	
No.200 (75µm)	91	
Sieve Size 2½in (63.0mm) 1¾in (45.0mm) 7/8in (22.4mm) ¾in (19.0mm) 3/8in (9.5mm) No.4 (4.75mm) No.40 (425µm) No.200 (75µm) Finer No.200 (75µm	n) 91	
[]		

Chart



Comments

Liquid Limit

Plastic Limit

Tested By

Date Tested

Plasticity Index

Liquid Limit Procedure

N/A

65

18

47

One-point (B)

Ignacio Vasquez 4/15/2022



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Material Test Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

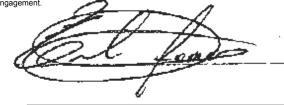
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S1 Lift:

Client Sample ID: Lab #242 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material

Material: Dk. Brown Fat Clay (CH), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Fat Clay (CH), Dk. Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	93.7	
Corrected Maximum Dry Unit Weight (lbf/ft³)		93.7	
Optimum Water Content (%)		24.8	
Corrected Optimum Water Content (%)		24.8	
Method		Α	
Preparation Method		Moist	
Rammer Type	4	" Standard	
Specific Gravity (Fines)	Estimated	2.55	
Tested By	ASTM D 698 T	revor Ahin	
Date Tested		4/15/2022	

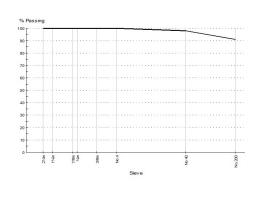
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested:** 4/18/2022 Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	98	
No.200 (75µm)	91	
Finer No.200 (75µm)) 91	

Chart



Comments



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Material Test Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details **Particle Size Distribution**

Sample ID: 03113615-23-S2 Lift: Client Sample ID: Lab #243 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material

Material: Lt. Brown Sandy Lean Clay (CL), (Subgrade / Backfill / General fill)

Sampling Method: Sampled Onsite

Soil Description: Sandy Lean Clay (CL), Lt. Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	69.6	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	letermined	
Tested By	Ignacio	o Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/15/2022	
Group Symbol	ASTM D 2487	CL	
Group Name		y lean clay	
Approximate maximum grain size			
Material retained on 425µm (No. 40) (%)		17.0	
Method of Removal	W	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type	N	/lechanical	
Liquid Limit		41	
Plastic Limit		13	
Plasticity Index		28	
Liquid Limit Procedure	One-point (B)		
Tested By	Ignacio Vasquez		
Date Tested		4/15/2022	
Maximum Dry Unit Weight (lbf/ft³)		108.9	
Corrected Maximum Dry Unit Weight (lbf/ft³)		108.9	
Optimum Water Content (%)		16.9	

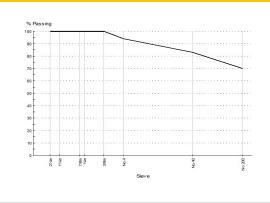
Method:

ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested: 4/18/2022** Tested By: Trevor Ahin

% Passing	Limits
100	
100	
100	
100	
100	
94	
83	
70	
1) 70	
	100 100 100 100 94 83 70

Chart



Comments

Method

N/A

Corrected Optimum Water Content (%)

16.9

Α



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Material Test Report

Client: ASHTON WOODS

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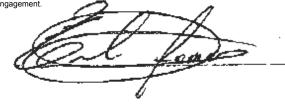
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S2 Lift:

Client Sample ID: Lab #243 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material

Material: Lt. Brown Sandy Lean Clay (CL), (Subgrade / Backfill / General fill)

Sampling Method: Sampled Onsite

Soil Description: Sandy Lean Clay (CL), Lt. Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Preparation Method		Moist	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.65	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/15/2022	

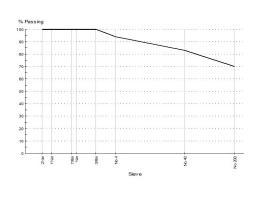
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested: 4/18/2022** Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	83	
No.200 (75µm)	70	
Finer No.200 (75µm	1) 70	

Chart



Comments



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Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S3

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S3 **Lift:**

Client Sample ID: Lab #244 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina
Specification: Backfill/General Fill
Supplier: In-situ material
Source: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Lean Clay w/Sand (CL), Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	70.5	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	etermined	
Tested By	Ignacio	Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/18/2022	
Group Symbol	ASTM D 2487	CL	
Group Name	Lean clay	with sand	
Tested By	Davi	d Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		15.9	
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		38	

Particle Size Distribution

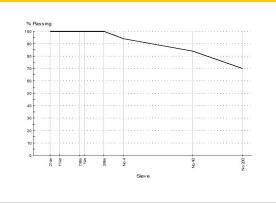
Method: ASTM C 136, ASTM C 117

Drying By: Oven

Date Tested: Tested By:

Sieve Size 2½in (63.0mm) 1¾in (45.0mm) 7/8in (22.4mm) ¾in (19.0mm) 3/8in (9.5mm) No.4 (4.75mm) No.40 (425µm) No.200 (75µm) Finer No.200 (75µm	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	84	
No.200 (75µm)	70	
Finer No.200 (75µm	1) 70	

Chart



Comments

Plastic Limit

Tested By

Date Tested

Plasticity Index

Liquid Limit Procedure

N/A

12

26

One-point (B) Ignacio Vasquez

4/18/2022



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Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S3

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S3 Lift:

Client Sample ID: Lab #244 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Lean Clay w/Sand (CL), Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	116.9	
Corrected Maximum Dry Unit Weight (lbf/ft³)		116.9	
Optimum Water Content (%)		14.6	
Corrected Optimum Water Content (%)		14.6	
Method		Α	
Preparation Method		Dry	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.70	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/18/2022	

Particle Size Distribution

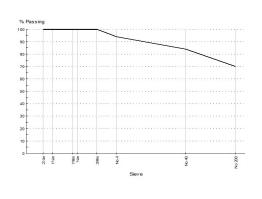
Method: ASTM C 136, ASTM C 117

Drying By: Oven

Date Tested: Tested By:

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	84	
No.200 (75µm)	70	
Finer No.200 (75µm	1) 70	

Chart



Comments



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Material Test Report

Client: ASHTON WOODS

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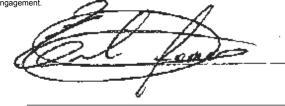
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S4

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S4 **Lift:**

Client Sample ID: Lab #245 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina
Specification: Backfill/General Fill
Supplier: In-situ material
Source: In-situ material

Material: Brown Sandy Fat Clay (CH), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Sandy Fat Clay (CH), Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	66.4	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	etermined	
Tested By	Ignacio	Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/18/2022	
Group Symbol	ASTM D 2487	CH	
Group Name	San	dy fat clay	
Tested By	Davi	d Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	e ASTM D 4318		
Material retained on 425µm (No. 40) (%)		19.9	
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		54	
Plastic Limit		12	
1			

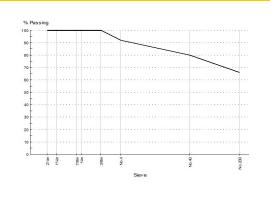
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	√ Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	92	
No.40 (425µm)	80	
No.200 (75µm)	66	
Finer No.200 (75µm)	66	

Chart



Comments

Plasticity Index

Tested By

Date Tested

Liquid Limit Procedure

N/A

42

One-point (B) Ignacio Vasquez

4/18/2022



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Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-23-S4

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S4 Lift:

Client Sample ID: Lab #245 Contractor:

Date Sampled: 04/09/22

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material

Material: Brown Sandy Fat Clay (CH), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Sandy Fat Clay (CH), Brown

General Location: Trenching Backfill

Location: On Site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	100.5	
Corrected Maximum Dry Unit Weight (lbf/ft³)		100.5	
Optimum Water Content (%)		20.3	
Corrected Optimum Water Content (%)		20.3	
Method		Α	
Preparation Method		Moist	
Rammer Type	4	4" Standard	
Specific Gravity (Fines)	Estimated	2.55	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/18/2022	

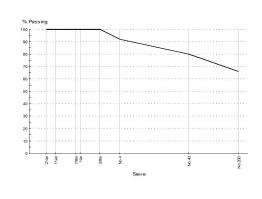
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested:** 4/18/2022 Tested By: Trevor Ahin

Sieve Size %	√ Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	92	
No.40 (425µm)	80	
No.200 (75µm)	66	
Finer No.200 (75µm)	66	

Chart



Comments



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Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-41-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-41-S1 **Lift:**

Client Sample ID: Contractor:

Date Sampled: 05/13/22 Sampled By: Trevor Ahin

Specification: Backfill/General Fill

Supplier: On site

Source: On Site Stockpile

Material: Lt. Brown to Brown Clayey Gravel w/Sand (GC)(Backfill)

Sampling Method: Sampled Onsite

Soil Description: Lt. Brown to Brown Clayey Gravel w/Sand

General Location: Roadway - Utility Backfill

Location: On site materials

Other Test Results

Other root resource			
Description	Method	Result	Limits
Material Finer than 75µm (%)	ASTM D 1140	0.0	
Test Method			
Initial dry mass (g)		3633.0	
Dry mass determination	Dry mass directly of		
Group Symbol	ASTM D 2487	GC	
Group Name	Clayey grave	l with sand	
Approximate maximum grain size			
Material retained on 425µm (No. 40) (%)		46.4	
Method of Removal		Wet Sieve	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process			
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		32	
Plastic Limit		10	
Plasticity Index		22	
Liquid Limit Procedure		e-point (B)	
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	121.4	
Corrected Maximum Dry Unit Weight (lbf/ft³)		129.0	
Optimum Water Content (%)		10.3	
Corrected Optimum Water Content (%)		8.6	
Method		С	
Preparation Method	_	Moist	
Rammer Type	6	" Standard	
Retained Sieve 3/4" (19mm) (%)		21	
Specific Gravity (Oversize)	F0T	2.70	
Specific Gravity (Fines)	EST.	2.60	

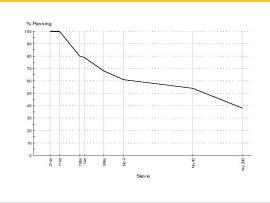
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Date Tested: Tested By:

Sieve Size 2½in (63.0mm) 1¾in (45.0mm) 7/8in (22.4mm) ¾in (19.0mm) 3/8in (9.5mm) No.4 (4.75mm) No.40 (425µm) No.200 (75µm) Finer No.200 (75µn	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	80	
¾in (19.0mm)	79	
3/8in (9.5mm)	68	
No.4 (4.75mm)	61	
No.40 (425µm)	54	
No.200 (75µm)	38	
Finer No.200 (75µn	1) 0.0	

Chart



Comments



CC: COLBY OGLETREE

Fax: (210) 342-9401

Material Test Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-84-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-84-S1 Lift:

Client Sample ID: Lab #565 Contractor:

Date Sampled: 08/05/22 Sampled By: Jacob McRae

Specification: Grade 1-2; 2014 Specification

Supplier: Ace Aggregates Source: On Site Stockpile

Material: Crushed Limestone (Roadway Base - ACE Aggregates)

Sampling Method: Sampled Onsite Soil Description: Crushed Limestone

General Location: Roadway Location: On Site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	16.9	
Test Method			
Initial dry mass (g)		4033.0	
Dry mass determination	Dry mass directly d		
Tested By	Ignacio	o Vasquez	
Method A Soaking Time (min)		180	
Date Tested		8/15/2022	
Group Symbol	ASTM D 2487	GC-GM	
Group Name		yey gravel	
Tested By		d Rosales	
Date Tested		8/15/2022	
Approximate maximum grain size		00.4	
Material retained on 425µm (No. 40) (%)		83.1	
Method of Removal	VVe	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method	۸۵	Oven STM C702	
Special selection process	A	Hand	
Rolling Method for PL		Папи	
As Received Water Content (%)		Manual	
Liquid Limit Device Type Liquid Limit		iviariuai 18	<10
Plastic Limit		14	≤40
Plasticity Index		4	<10
Liquid Limit Procedure	One	e-point (B)	≥10
Tested By		o Vasquez	
Date Tested		8/15/2022	
Date residu		0,10,2022	

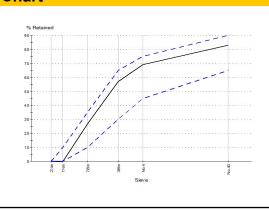
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested:** 8/12/2022 Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 το 10
7/8in (22.4mm)	27	10 το 35
3/8in (9.5mm)	57	30 το 65
No.4 (4.75mm)	69	45 το 75
No.40 (425µm)	83	65 το 90

Chart



Comments



CC: COLBY OGLETREE

Fax: (210) 342-9401

Material Test Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-84-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-84-S1 Lift:

Client Sample ID: Lab #565 Contractor:

Date Sampled: 08/05/22 Sampled By: Jacob McRae

Specification: Grade 1-2; 2014 Specification

Supplier: Ace Aggregates Source: On Site Stockpile

Material: Crushed Limestone (Roadway Base - ACE Aggregates)

Sampling Method: Sampled Onsite Soil Description: Crushed Limestone

General Location: Roadway Location: On Site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-113-E	133.8	
Optimum Water Content (%)		6.7	
Tested By		Trevor Ahin	
Date Tested		8/12/2022	

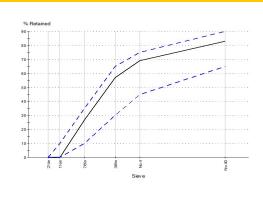
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested:** 8/12/2022 Trevor Ahin Tested By:

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 το 10
7/8in (22.4mm)	27	10 το 35
3/8in (9.5mm)	57	30 το 65
No.4 (4.75mm)	69	45 το 75
No.40 (425µm)	83	65 το 90

Chart



Comments



CC: COLBY OGLETREE

Phone: (210) 342-937 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-85-S1

Issue No: 1

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ngagement.

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/12/2022

Sample Details

Sample ID: 03113615-85-S1 **Lift:**

Client Sample ID: Lab #543 Contractor:

Date Sampled: 08/01/22

Sampled By: Benjamin Urbina

Specification: Lime Treated Subgrade

Supplier: In-situ material In-situ material

Material: Brown Clay Lime Treated Subgrade

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay

General Location: Sta:20+50 **Location:** On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		43	
Plastic Limit		36	
Plasticity Index		7	
Liquid Limit Procedure		e-point (B)	
Tested By	Ignacio	Vasquez	
Date Tested		8/5/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/5/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	95.0	
Optimum Water Content (%)		23.1	
Tested By	Trevor Ahin		
Date Tested		8/5/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-937 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-88-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-88-S1 **Lift:**

Client Sample ID: Lab #549 Contractor:

Date Sampled: 08/03/22

Sampled By: Benjamin Urbina
Specification: Lime Treated Subgrade

Supplier: In-situ material **Source:** In-situ material

Material: Brown Clay (Lime Treated Subgrade - Birch Crossing)

Sampling Method: Sampled Onsite

Soil Description: Brown Clay (Lime Treated Subgrade - Birch Crossing)

General Location: Birch Crossing **Location:** On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		53	
Plastic Limit		35	
Plasticity Index		18	
Liquid Limit Procedure	One	e-point (B)	
Tested By	Ignacio	o Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.6	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	102.0	
Optimum Water Content (%)		13.9	
Tested By	Trevor Ahin		
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-9377 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-88-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-88-S2 **Lift:**

Client Sample ID: Lab #550 Contractor:

Date Sampled: 08/03/22

Sampled By: Benjamin Urbina
Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material

Material: Brown Clay (Lime Treated Subgrade - Birch Hallow)

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay

General Location: Birch Hollow **Location:** On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	We	et Sieving	
Grooving Tool Type	Plastic		
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		61	
Plastic Limit		36	
Plasticity Index		25	
Liquid Limit Procedure	One	e-point (B)	
Tested By	Ignacio	o Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	87.4	
Optimum Water Content (%)		25.1	
Tested By	Trevor Ahin		
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-9377 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-88-S3

Issue No: 1

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ngagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-88-S3 **Lift:**

Client Sample ID: Lab #551 Contractor:

Date Sampled: 08/03/22

Sampled By: Benjamin Urbina

Specification: Lime Treated Subgrade
Supplier: In-situ material

Supplier: In-situ material Source: In-situ material

Material: Brown Clay (Lime Treated Subgrade - Birch View)

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay

General Location: Birch View **Location:** On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		62	
Plastic Limit		37	
Plasticity Index		25	
Liquid Limit Procedure	One-point (B)		
Tested By	Ignacio	o Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	88.3	
Optimum Water Content (%)		24.3	
Tested By	Trevor Ahin		
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-93 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-89-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID: 03113615-89-S1 **Lift:**

Client Sample ID: Lab #555 Contractor:

Date Sampled:08/04/22Sampled By:Richard Robles

Specification: Lime Treated Subgrade

Supplier: In-situ material **Source:** In-situ material

Material: Brown Clay (Lime Treated Subgrade)

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay
General Location: Fern Hollow Sta:2+50

Location: On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	Wet Sieving		
Grooving Tool Type	Plastic		
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	TM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		56	
Plastic Limit		36	
Plasticity Index		20	
Liquid Limit Procedure	One	e-point (B)	
Tested By	Ignacio	Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.4	≥12.4
pH - Calcium Chloride			
Date Tested		8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	93.2	
Optimum Water Content (%)		22.8	
Tested By	David Rosales		
Date Tested		8/10/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-937 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-89-S2

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID: 03113615-89-S2 **Lift:**

Client Sample ID: Lab #556 Contractor:

Date Sampled: 08/04/22 Sampled By: Richard Robles

Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material

Material: Brown Clay (Lime Treated Subgrade)

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay General Location: Fern Crossing Sta:6+00

Location: On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	We	t Sieving	
Grooving Tool Type	Plastic		
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	TM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		58	
Plastic Limit		40	
Plasticity Index		18	
Liquid Limit Procedure	One-point (B)		
Tested By	Ignacio	Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested	;	8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	95.8	
Optimum Water Content (%)		19.7	
Tested By	David Rosales		
Date Tested	:	8/10/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-93 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-89-S3

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID: 03113615-89-S3 **Lift:**

Client Sample ID: Lab #557 Contractor:

Date Sampled: 08/04/22 Sampled By: Richard Robles

Specification: Lime Treated Subgrade

Supplier: In-situ material In-situ material

Material: Brown Clay (Lime Treated Subgrade)

Sampling Method: Sampled Onsite

Soil Description: Lime Treated Brown Clay
General Location: Birch Pass Sta:4+50

Location: On Site

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	Wet Sieving		
Grooving Tool Type	Plastic		
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	TM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		51	
Plastic Limit		31	
Plasticity Index		20	
Liquid Limit Procedure	One	e-point (B)	
Tested By	Ignacio	Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water		12.4	≥12.4
pH - Calcium Chloride			
Date Tested		8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	97.6	
Optimum Water Content (%)		20.3	
Tested By		d Rosales	
Date Tested		8/10/2022	

Particle Size Distribution

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-937 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

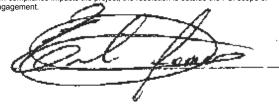
SAN ANTONIO, TX

Report No: MAT:03113615-92-S1

Issue No: 2

This report replaces all previous issues of this report signed on 08/30/2022

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Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/31/2022

Sample Details

Sample ID: 03113615-92-S1 **Lift:**

Client Sample ID: Lab #610 Contractor:

Date Sampled: 08/22/22 Sampled By: David Garza

Specification: Grade 1-2; 2014 Specification **Supplier:** Martin Marietta Materials

Source: Rio Medina Pit

Material: Crushed Limestone (Roadway Base-MMM-Rio Medina)

Sampling Method:Sampled OnsiteSoil Description:Crushed LimestoneGeneral Location:Hennersby Lane

Location: On Site

Particle Size Distribution

Method: ASTM C 136, ASTM C 117

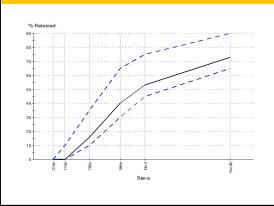
Drying By: Oven
Date Tested: 8/29/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 το 10
7/8in (22.4mm)	16	10 το 35
3/8in (9.5mm)	40	30 το 65
No.4 (4.75mm)	53	45 το 75
No.40 (425µm)	73	65 το 90

Other Test Results

Method	Result	Limits
ASTM D 1140	26.8	
	3528.0	
Dry mass directly d	letermined	
Ignaci	o Vasquez	
	180	
	8/26/2022	
ASTM D 2487		
Dav	id Rosales	
	8/30/2022	
ASTM D 4318		
	73.2	
W	et Sieving	
	Plastic	
	Wet	
	Oven	
AS	STM C702	
	Hand	
	Manual	
	23	≤40
	16	
	ASTM D 1140 Dry mass directly dignacion ASTM D 2487 Dav ASTM D 4318	ASTM D 1140 26.8 3528.0 Dry mass directly determined Ignacio Vasquez 180 8/26/2022 ASTM D 2487 David Rosales 8/30/2022 ASTM D 4318 73.2 Wet Sieving Plastic Wet Oven ASTM C702 Hand Manual 23

Chart



Comments

Plasticity Index

Tested By

Date Tested

Liquid Limit Procedure

N/A

One-point (B) Ignacio Vasquez

8/26/2022

≤10



CC: COLBY OGLETREE

Phone: (210) 342-93° Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

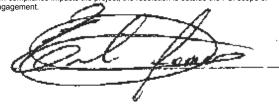
SAN ANTONIO, TX

Report No: MAT:03113615-92-S1

Issue No: 2

This report replaces all previous issues of this report signed on 08/30/2022

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Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/31/2022

Sample Details

Sample ID: 03113615-92-S1 **Lift:**

Client Sample ID: Lab #610 Contractor:

Date Sampled: 08/22/22 Sampled By: David Garza

Specification: Grade 1-2; 2014 Specification **Supplier:** Martin Marietta Materials

Source: Rio Medina Pit

Material: Crushed Limestone (Roadway Base-MMM-Rio Medina)

Sampling Method:Sampled OnsiteSoil Description:Crushed LimestoneGeneral Location:Hennersby Lane

Location: On Site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-113-E	135.0	
Optimum Water Content (%)		6.8	
Coefficient of Determination		0.9926	
Tested By		Trevor Ahin	
Date Tested		8/29/2022	

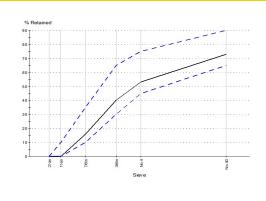
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven
Date Tested: 8/29/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 το 10
7/8in (22.4mm)	16	10 το 35
3/8in (9.5mm)	40	30 το 65
No.4 (4.75mm)	53	45 το 75
No.40 (425µm)	73	65 το 90

Chart



Comments



CC: COLBY OGLETREE

Phone: (210) 342-93 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-137-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-137-S1 **Lift:**

Client Sample ID: Lab #112 Contractor:

Date Sampled:02/22/23Sampled By:David GarzaSpecification:SubgradeSupplier:In-situ materialSource:In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Brown Lean Clay w/Sand

General Location: Roadway **Location:** On site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	70.2	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	etermined	
Tested By	Davi	d Rosales	
Method A Soaking Time (min)		180	
Date Tested		3/1/2023	
Group Symbol	ASTM D 2487	CL	
Group Name	Lean clay	with sand	
Tested By	Davi	d Rosales	
Date Tested		3/2/2023	
Approximate maximum grain size			
Material retained on 425µm (No. 40) (%)		14.1	
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		43	
Plastic Limit		15	
Plasticity Index	_	28	
Liquid Limit Procedure		e-point (B)	
Tested By	Davi	d Rosales	

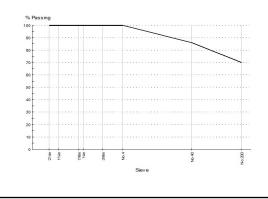
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven
Date Tested: 3/1/2023
Tested By: David Rosales

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

Date Tested

N/A

3/1/2023



CC: COLBY OGLETREE

Fax: (210) 342-9401

Material Test Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-137-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-137-S1 Lift:

Client Sample ID: Lab #112 Contractor:

Date Sampled: 02/22/23 Sampled By: David Garza Specification: Subgrade Supplier: In-situ material Source: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Brown Lean Clay w/Sand

General Location: Roadway Location: On site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-114-E	103.9	
Optimum Water Content (%)		18.4	
Tested By	Dav	id Rosales	
Date Tested		3/1/2023	

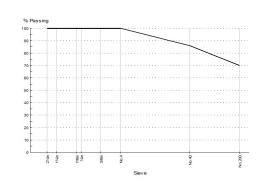
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven Date Tested: 3/1/2023 Tested By: **David Rosales**

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments



CC: COLBY OGLETREE

Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-137-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-137-S2 Lift:

Client Sample ID: Lab #113 Contractor:

Date Sampled: 02/22/23 Sampled By: David Garza Specification: Subgrade Supplier: In-situ material Source: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgarde / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Brown Lean Clay w/Sand

General Location: Roadway Location: On site

Other Test Results

Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	69.7	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination	Dry mass directly d	etermined	
Tested By	Davi	d Rosales	
Method A Soaking Time (min)		180	
Date Tested		3/1/2023	
Group Symbol	ASTM D 2487	CL	
Group Name	Sandy	/ lean clay	
Tested By	Davi	d Rosales	
Date Tested		3/2/2023	
Approximate maximum grain size			
Material retained on 425µm (No. 40) (%)		14.3	
Method of Removal	We	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process	AS	STM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		42	
Plastic Limit		13	
Plasticity Index		29	
Liquid Limit Procedure		e-point (B)	
Tested By	Davi	d Rosales	

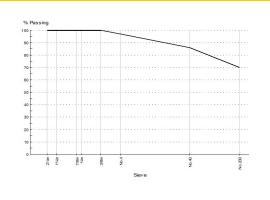
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven **Date Tested:** 3/1/2023 **David Rosales** Tested By:

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	97	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

Date Tested

N/A

3/1/2023



CC: COLBY OGLETREE

Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-137-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-137-S2 Lift:

Client Sample ID: Lab #113 Contractor:

Date Sampled: 02/22/23 Sampled By: David Garza Specification: Subgrade Supplier: In-situ material Source: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgarde / Backfill / General Fill)

Sampling Method: Sampled Onsite

Soil Description: Brown Lean Clay w/Sand

General Location: Roadway Location: On site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-114-E	103.3	
Optimum Water Content (%)		21.5	
Tested By	Dav	rid Rosales	
Date Tested		3/1/2023	

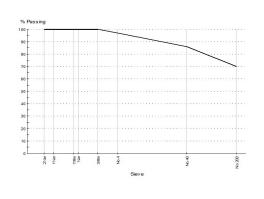
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Drying By: Oven Date Tested: 3/1/2023 Tested By: **David Rosales**

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	97	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments



CC: COLBY OGLETREE

Phone: (210) 342-9377 Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-153-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Particle Size Distribution

Sample Details

Sample ID: 03113615-153-S1 **Lift:**

Client Sample ID: Lab #170 Contractor:

Date Sampled:03/22/23Sampled By:Richard RoblesSpecification:SubgradeSupplier:In-situ materialSource:In-situ material

Material: Brown Clay (Lime Treated Subgrade)

Sampling Method: Sampled Onsite

Soil Description: Brown Clay Lime Stabilized

General Location: Masterson Rd. **Location:** On site

Other Test Results

Description	Made a d	Daniella	1 !!4
Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal	W	et Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method	Oven		
Special selection process	A	STM C702	
Rolling Method for PL	Hand		
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		32	
Plastic Limit	18		
Plasticity Index	14		
Liquid Limit Procedure	One-point (B)		
Tested By	David Rosales		
Date Tested	3/21/2023		
Sieve Size	ASTM D 4972	10	
Method (A/B)		В	
pH - Distilled Water	12.4		
pH - Calcium Chloride			
Date Tested	3/21/2023		

Chart

Comments



CC: COLBY OGLETREE

Phone: (210) 342-93° Fax: (210) 342-9401

Material Test Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: MAT:03113615-153-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-153-S1 **Lift:**

Client Sample ID: Lab #170 Contractor:

Date Sampled:03/22/23Sampled By:Richard RoblesSpecification:SubgradeSupplier:In-situ materialSource:In-situ material

Material: Brown Clay (Lime Treated Subgrade)

Sampling Method: Sampled Onsite

Soil Description: Brown Clay Lime Stabilized

General Location: Masterson Rd. **Location:** On site

Other Test Results

Other rest results				
Description	Method	Result	Limits	
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	96.8		
Corrected Maximum Dry Unit Weight (lbf/ft³)		96.8		
Optimum Water Content (%)		23.5		
Corrected Optimum Water Content (%)		23.5		
Method		Α		
Preparation Method		Moist		
Rammer Type	4	l" Standard		
Specific Gravity (Fines)	Estimated	2.60		
	ASTM D 698			
Tested By	David Rosales			
Date Tested		3/21/2023		

Particle Size Distribution

Limits

Chart

Comments



CC: COLBY OGLETREE

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

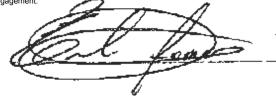
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-23-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Test Results

Tested By:

Date Tested:

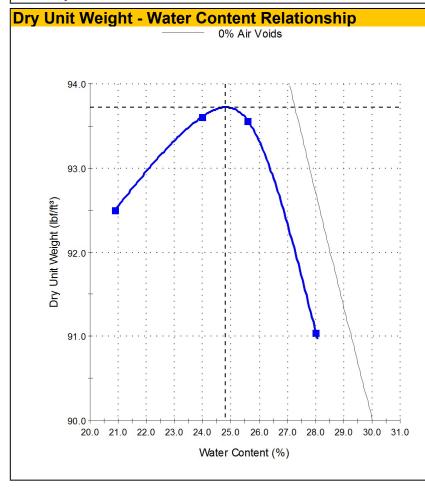
Sample Details

Sample ID: Client Sample ID: Lab #242 03113615-23-S1 Date Sampled: Date Received: 4/9/2022 4/19/2022

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material Material: Dk. Brown Fat Clay (CH), (Subgrade / Backfill Sampling Method: Sampled Onsite

/ General Fill)

General Location: Trenching Backfill Location: On Site Tested By: Trevor Ahin **Date Tested:** 4/15/2022



ASTM D 698 Maximum Dry Unit Weight 93.7 (lbf/ft³): Optimum Water Content (%): 24.8 Method: Α Preparation Method: Moist Rammer Type: 4" Standard Specific Gravity (Fines): 2.55 Specific Gravity Method: Estimated Tested By: Trevor Ahin Date Tested: 4/15/2022 **ASTM D 4318** Liquid Limit (%): 65 Plastic Limit (%): 18 Plasticity Index (%): 47

Comments

Ignacio Vasquez

4/15/2022



Report No: PTR:03113615-23-S2

Issue No: 1

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

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Approved Signatory: Ernesto Gomez (Project Manager)

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

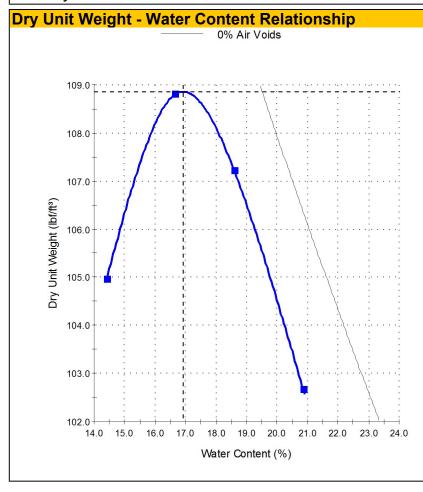
Sample Details

Client Sample ID: Lab #243 Sample ID: 03113615-23-S2 Date Sampled: Date Received: 4/9/2022 4/19/2022

Sampled By: Benjamin Urbina Specification: Backfill/General Fill Supplier: In-situ material Source: In-situ material Material: Lt. Brown Sandy Lean Clay (CL), (Subgrade / Sampling Method: Sampled Onsite

Backfill / General fill)

General Location: Trenching Backfill Location: On Site Tested By: Trevor Ahin **Date Tested:** 4/15/2022



Test Results ASTM D 698 Maximum Dry Unit Weight 108.9 (lbf/ft³): Optimum Water Content (%): 16.9 Method: Α Preparation Method: Moist Rammer Type: 4" Standard Specific Gravity (Fines): 2.65 Specific Gravity Method: Estimated Tested By: Trevor Ahin Date Tested: 4/15/2022 **ASTM D 4318** Liquid Limit (%): 41 Plastic Limit (%): 13 Plasticity Index (%): Tested By: Ignacio Vasquez Date Tested: 4/15/2022



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-23-S3

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S3

4/9/2022 Date Sampled:

Sampled By: Benjamin Urbina Supplier: In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgrade /

Backfill / General Fill)

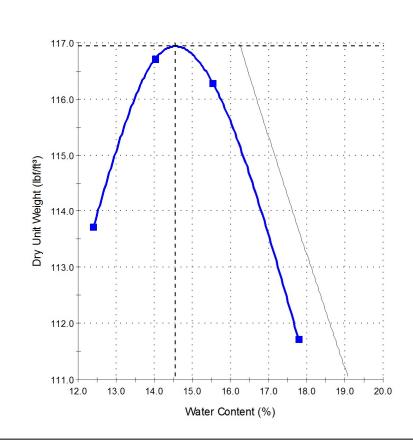
General Location: Trenching Backfill

Tested By: Trevor Ahin Client Sample ID: Lab #244 Date Received: 4/19/2022

Specification: Backfill/General Fill Source: In-situ material Sampling Method: Sampled Onsite

Location: On Site **Date Tested:** 4/18/2022

Dry Unit Weight - Water Content Relationship 0% Air Voids



Test Results

ASTM D 698

Maximum Dry Unit Weight 116.9 (lbf/ft³):

Optimum Water Content (%): 14.6

Method: Preparation Method: Dry Rammer Type: 4" Standard Specific Gravity (Fines): 2 70

Specific Gravity Method: Estimated Tested By: Trevor Ahin Date Tested: 4/18/2022

ASTM D 4318 Liquid Limit (%): 38 Plastic Limit (%): 12

Plasticity Index (%): Tested By: Ignacio Vasquez Date Tested: 4/18/2022



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-23-S4

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-23-S4

Date Sampled: 4/9/2022

Sampled By: Benjamin Urbina Supplier: In-situ material

Material: Brown Sandy Fat Clay (CH), (Subgrade /

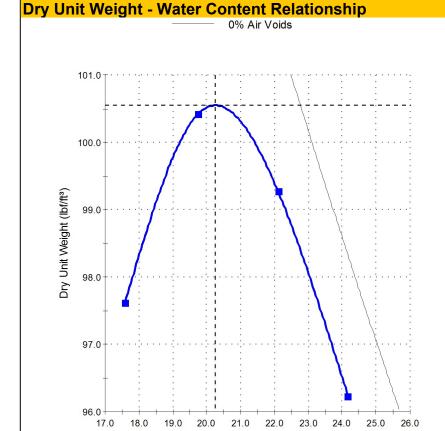
Backfill / General Fill)

General Location: Trenching Backfill

Tested By: Trevor Ahin Client Sample ID: Lab #245 Date Received: 4/19/2022

Specification: Backfill/General Fill Source: In-situ material Sampling Method: Sampled Onsite

Location: On Site **Date Tested:** 4/18/2022



Water Content (%)

Test Results ASTM D 698 Maximum Dry Unit Weight 100.5 (lbf/ft³): Optimum Water Content (%): 20.3 Method: Α Preparation Method: Moist Rammer Type: 4" Standard Specific Gravity (Fines): 2.55 Specific Gravity Method: Estimated Tested By: Trevor Ahin Date Tested: 4/18/2022 **ASTM D 4318** Liquid Limit (%): 54 Plastic Limit (%): 12 Plasticity Index (%): 42 Tested By: Ignacio Vasquez Date Tested: 4/18/2022



CC: COLBY OGLETREE

Proctor Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-41-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Test Results

Sample Details

Sample ID: 03113615-41-S1 **Date Sampled:** 5/13/2022

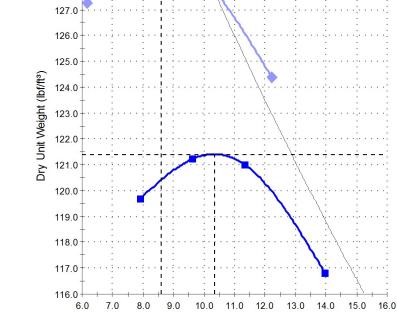
Sampled By:Trevor AhinSpecification:Backfill/General FillSupplier:On siteSource:On Site StockpileMaterial:Lt. Brown to Brown Clayey Gravel w/SandSampling Method:Sampled Onsite

(GC)(Backfill)

General Location: Roadway - Utility Backfill Location: On site materials

Dry Unit Weight - Water Content Relationship

Uncorrected 0% Air Voids Corrected



Water Content (%)

ASTM D 698			
Maximum Dry Unit Weight (lbf/ft³):	121.4		
Optimum Water Content (%):	10.3		
Method:	С		
Preparation Method:	Moist		
Rammer Type:	6" Standard		
Specific Gravity (Fines):	2.60		
Specific Gravity Method:	EST.		
Retained Sieve 3/4" (19mm) (%):	21		
Passing Sieve 3/4" (19mm) (%):	79		
Tested By:			
Date Tested:			
ASTM D 4718			
Corrected Maximum Dry Unit Weight (lbf/ft³):	129.0		
	129.0 8.6		
Weight (lbf/ft³): Corrected Optimum Water	1_010		
Weight (lbf/ft³): Corrected Optimum Water Content (%):	8.6		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize):	8.6 2.70		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize):	8.6 2.70 3/4		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize): Oversize Particles (%):	8.6 2.70 3/4		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize): Oversize Particles (%): ASTM D 4318	8.6 2.70 3/4 21		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize): Oversize Particles (%): ASTM D 4318 Liquid Limit (%):	8.6 2.70 3/4 21		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize): Oversize Particles (%): ASTM D 4318 Liquid Limit (%): Plastic Limit (%):	8.6 2.70 3/4 21 32		
Weight (lbf/ft³): Corrected Optimum Water Content (%): Specific Gravity (Oversize): Sieve Size (Oversize): Oversize Particles (%): ASTM D 4318 Liquid Limit (%): Plastic Limit (%): Plasticity Index (%):	8.6 2.70 3/4 21 32		



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-84-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sampled By:

Supplier:

Material:

Sample ID: Client Sample ID: Lab #565 03113615-84-S1 Date Sampled: 8/5/2022 Date Received: 8/5/2022

> Specification: Grade 1-2; 2014 Specification

Source: On Site Stockpile Sampling Method: Sampled Onsite

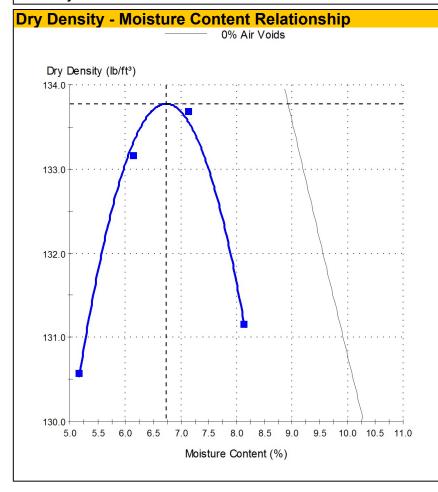
Crushed Limestone (Roadway Base - ACE

Aggregates)

Jacob McRae

Ace Aggregates

General Location: Roadway Location: Tested By: Trevor Ahin **Date Tested:**



Test Results

On Site

8/12/2022

Tex-113-E

Maximum Dry Density (lb/ft3): 133.8 Optimum Water Content (%): 6.7

Tested By: Trevor Ahin **Date Tested:** 8/12/2022

ASTM D 4318

Liquid Limit (%): 18 Plastic Limit (%): 14 Plasticity Index (%):

Tested By: Ignacio Vasquez **Date Tested:** 8/15/2022



CC: COLBY OGLETREE

Proctor Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-85-S1

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

 Sample ID:
 03113615-85-S1

 Date Sampled:
 8/1/2022

Sampled By: Benjamin Urbina
Supplier: In-situ material

Material: Brown Clay Lime Treated Subgrade

General Location: Sta:20+50 **Tested By:** Trevor Ahin

Client Sample ID: Lab #543

Date Received: 8/1/2022

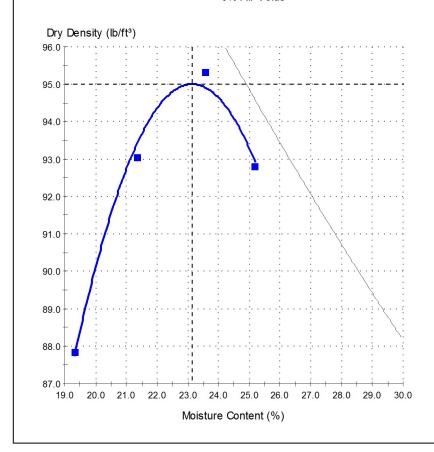
Specification: Lime Treated Subgrade

Source: In-situ material
Sampling Method: Sampled Onsite

Location: On Site Date Tested: 8/5/2022

Dry Density - Moisture Content Relationship

0% Air Voids



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³): 95.0 Optimum Water Content (%): 23.1

Tested By: Trevor Ahin Date Tested: 8/5/2022

ASTM D 4318

Liquid Limit (%): 43
Plastic Limit (%): 36
Plasticity Index (%): 7

Tested By: Ignacio Vasquez

Date Tested: 8/5/2022



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-88-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

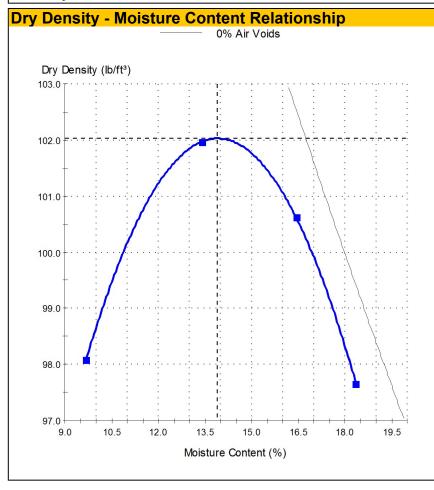
Sample ID: Client Sample ID: Lab #549 03113615-88-S1 Date Sampled: 8/3/2022 Date Received: 8/3/2022

Sampled By: Benjamin Urbina Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Brown Clay (Lime Treated Subgrade - Birch Sampling Method: Sampled Onsite

Crossing)

General Location: Birch Crossing Location: On Site Tested By: Trevor Ahin **Date Tested:** 8/8/2022



Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 102.0 Optimum Water Content (%): 13.9

Tested By: Trevor Ahin **Date Tested:** 8/8/2022

ASTM D 4318

Liquid Limit (%): 53 Plastic Limit (%): 35 Plasticity Index (%): 18

Tested By: Ignacio Vasquez

Date Tested: 8/8/2022



Report No: PTR:03113615-88-S2

Issue No: 1

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

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Approved Signatory: Ernesto Gomez (Project Manager)

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Sample Details

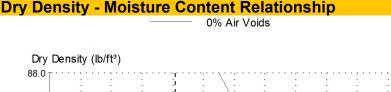
Sample ID: Client Sample ID: Lab #550 03113615-88-S2 Date Sampled: Date Received: 8/3/2022 8/3/2022

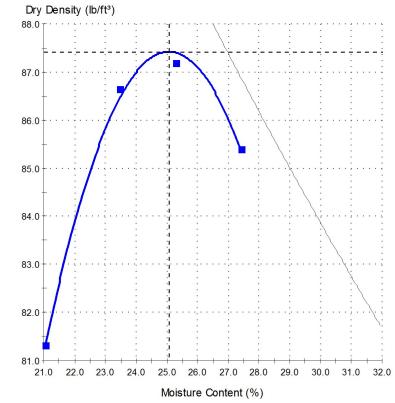
Sampled By: Benjamin Urbina Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Sampling Method: Sampled Onsite Brown Clay (Lime Treated Subgrade - Birch

Hallow)

General Location: Birch Hollow Location: On Site Tested By: Trevor Ahin **Date Tested:** 8/8/2022





Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 87.4 Optimum Water Content (%): 25.1

Tested By: Trevor Ahin **Date Tested:** 8/8/2022

ASTM D 4318

Liquid Limit (%): 61 Plastic Limit (%): 36 Plasticity Index (%): 25

Tested By: Ignacio Vasquez

Date Tested: 8/8/2022



Report No: PTR:03113615-88-S3

Issue No: 1

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

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Approved Signatory: Ernesto Gomez (Project Manager)

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Sample Details

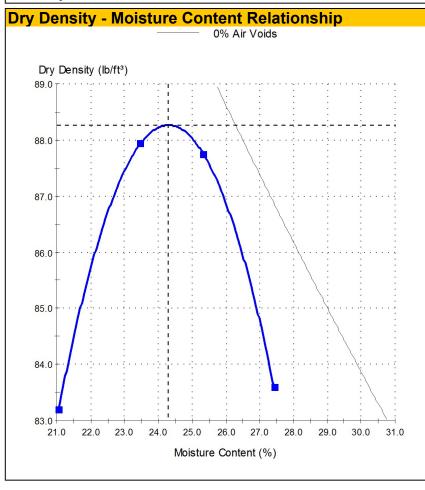
Sample ID: Client Sample ID: Lab #551 03113615-88-S3 Date Sampled: 8/3/2022 Date Received: 8/3/2022

Sampled By: Benjamin Urbina Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Sampling Method: Sampled Onsite Brown Clay (Lime Treated Subgrade - Birch

View)

General Location: Birch View Location: On Site Tested By: Trevor Ahin **Date Tested:** 8/8/2022



Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 88.3 Optimum Water Content (%): 24.3

Tested By: Trevor Ahin

Date Tested: 8/8/2022

ASTM D 4318

Liquid Limit (%): 62 Plastic Limit (%): 37 Plasticity Index (%): 25

Tested By: Ignacio Vasquez

Date Tested: 8/8/2022



CC: COLBY OGLETREE

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-89-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: Client Sample ID: Lab #555 03113615-89-S1 8/5/2022 Date Sampled: 8/4/2022 **Date Received:**

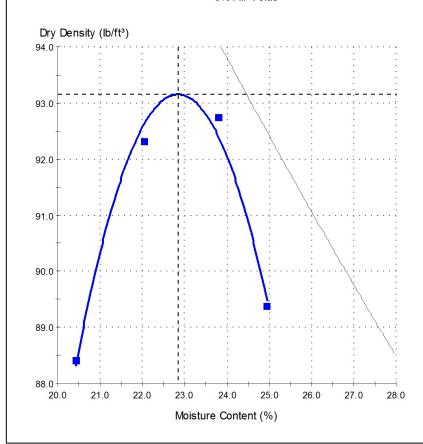
Sampled By: Richard Robles Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Brown Clay (Lime Treated Subgrade) Sampling Method: Sampled Onsite

General Location: Fern Hollow Sta:2+50 Location: On Site Tested By: **David Rosales Date Tested:** 8/10/2022



0% Air Voids



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³): 93.2 Optimum Water Content (%): 22.8

David Rosales Tested By: **Date Tested:** 8/10/2022

ASTM D 4318

Liquid Limit (%): 56 Plastic Limit (%): 36 Plasticity Index (%):

Tested By: Ignacio Vasquez **Date Tested:** 8/10/2022



CC: COLBY OGLETREE

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-89-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

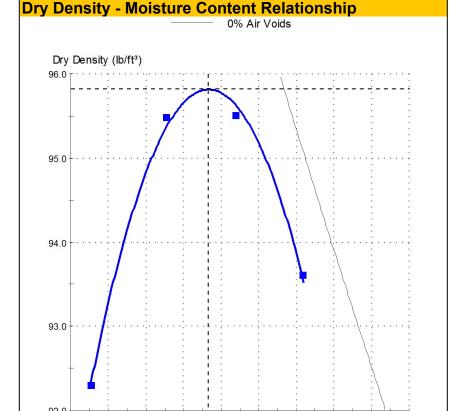
Sample Details

Sample ID: Client Sample ID: Lab #556 03113615-89-S2 8/5/2022 Date Sampled: 8/4/2022 **Date Received:**

Sampled By: Richard Robles Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Sampling Method: Sampled Onsite Brown Clay (Lime Treated Subgrade)

General Location: Fern Crossing Sta:6+00 Location: On Site Tested By: **David Rosales Date Tested:** 8/10/2022



Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 95.8 Optimum Water Content (%): 19.7

Tested By: **David Rosales** Date Tested: 8/10/2022

ASTM D 4318

Liquid Limit (%): 58 Plastic Limit (%): 40 Plasticity Index (%): 18

Tested By: Ignacio Vasquez **Date Tested:** 8/10/2022

Comments

16.0

17.0

18.0

19.0

20.0

Moisture Content (%)

21.0

23.0

24.0

25.0



CC: COLBY OGLETREE

Proctor Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

General Location: Birch Pass Sta:4+50

Report No: PTR:03113615-89-S3

Issue No: 1

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gagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Material:

Tested By:

 Sample ID:
 03113615-89-S3
 Client Sample ID:
 Lab #557

 Date Sampled:
 8/4/2022
 Date Received:
 8/5/2022

Sampled By:Richard RoblesSpecification:Lime Treated SubgradeSupplier:In-situ materialSource:In-situ material

Source: In-situ material
Sampling Method: Sampled Onsite

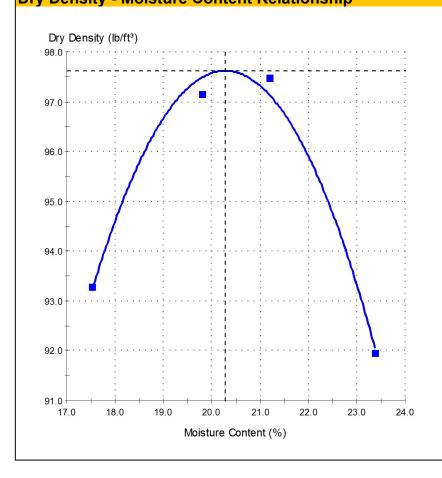
Location: On Site

Date Tested: 8/10/2022

Dry Density - Moisture Content Relationship

David Rosales

Brown Clay (Lime Treated Subgrade)



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³): 97.6 Optimum Water Content (%): 20.3

Tested By: David Rosales
Date Tested: 8/10/2022

ASTM D 4318

Liquid Limit (%): 51
Plastic Limit (%): 31
Plasticity Index (%): 20

Tested By: Ignacio Vasquez

Date Tested: 8/10/2022



Fax: (210) 342-9401

CC: COLBY OGLETREE

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-92-S1

Issue No: 2

This report replaces all previous issues of this report signed on 08/30/2022

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-92-S1 **Date Sampled:** 8/22/2022

Specification: Grade 1-2; 2014 Specification

Source: Rio Medina Pit

Sampling Method: Sampled Onsite

Location: On Site **Date Tested:** 8/29/2022 Client Sample ID: Lab #610

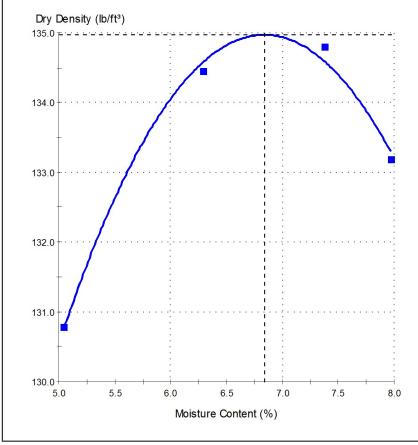
Sampled By: David Garza

Supplier: Martin Marietta Materials Material: Crushed Limestone (Roadway

Base-MMM-Rio Medina)

General Location: Hennersby Lane Tested By: Trevor Ahin

Dry Density - Moisture Content Relationship



Test Results

Tex-113-E

Maximum Dry Density (lb/ft3): 135.0 Optimum Water Content (%): 6.8 Coefficient of Determination: 0.9926 Tested By: Trevor Ahin **Date Tested:** 8/29/2022

ASTM D 4318

Liquid Limit (%): 23 Plastic Limit (%): 16 Plasticity Index (%):

Tested By: Ignacio Vasquez **Date Tested:** 8/26/2022



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-96-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

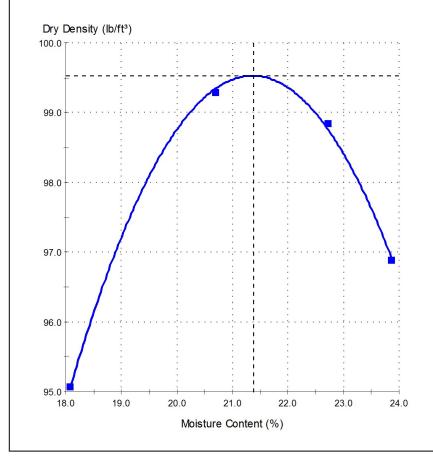
Sample ID: Client Sample ID: Lab #667 03113615-96-S1 9/6/2022 Date Sampled: **Date Received:** 9/6/2022

Sampled By: Benjamin Urbina Specification: Lime Treated Subgrade

Supplier: In-situ material Source: In-situ material Material: Sampling Method: Sampled Onsite Brown Clay (Lime Treated Subgrade) General Location: Roadway - Sta: 7+80 Location: On Site Material

Tested By: Trevor Ahin **Date Tested:** 9/8/2022





Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 99.5 Optimum Water Content (%): 21.4

Tested By: Trevor Ahin Date Tested: 9/8/2022

ASTM D 4318

Liquid Limit (%): Plastic Limit (%): Plasticity Index (%):

Tested By: Ignacio Vasquez

Date Tested: 9/9/2022



Report No: PTR:03113615-96-S2

Issue No: 1

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

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Approved Signatory: Ernesto Gomez (Project Manager)

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Sample Details

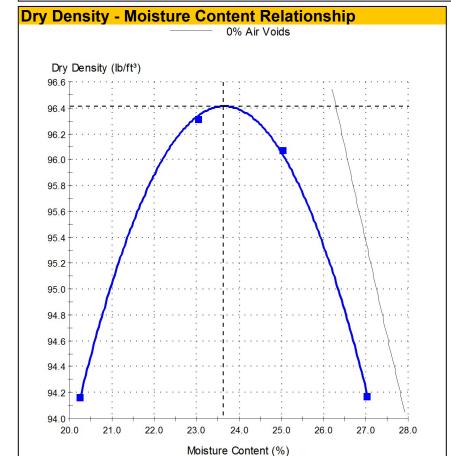
Sample ID: Client Sample ID: Lab #668 03113615-96-S2

9/6/2022 Date Sampled: **Date Received:** 9/6/2022 Sampled By: Benjamin Urbina Specification:

Lime Treated Subgrade Supplier: In-situ material Source: In-situ material

Material: Sampling Method: Sampled Onsite Brown Clay (Lime Treated Subgrade) General Location: Roadway - Sta: 2+50 Location: On Site Material

Tested By: Trevor Ahin **Date Tested:** 9/8/2022



Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 96.4 Optimum Water Content (%): 23.6

Tested By: Trevor Ahin Date Tested: 9/8/2022

ASTM D 4318

Liquid Limit (%): Plastic Limit (%): Plasticity Index (%):

Tested By: Ignacio Vasquez 9/9/2022 **Date Tested:**



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

ASHTON WOODS Client:

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

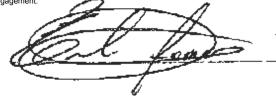
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-137-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

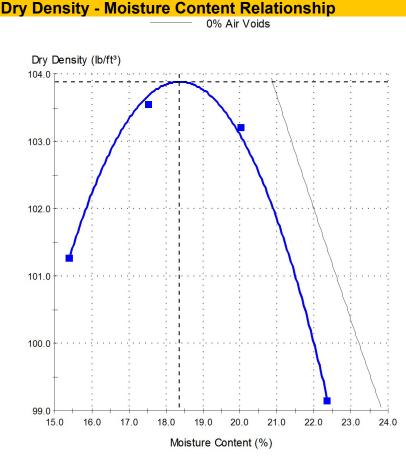
Sample Details

Sample ID: Client Sample ID: Lab #112 03113615-137-S1 Date Sampled: 2/22/2023 Date Received: 2/22/2023 Sampled By: David Garza Specification: Subgrade Supplier: In-situ material Source: In-situ material Material: Sampling Method: Sampled Onsite

Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)

General Location: Roadway Location: On site **Date Tested:** 3/1/2023

Tested By: **David Rosales**



Test Results

Tex-114-E

Maximum Dry Density (lb/ft3): 103.9 Optimum Water Content (%): 18.4

Tested By: **David Rosales**

Date Tested: 3/1/2023

ASTM D 4318

Liquid Limit (%): 43 Plastic Limit (%): 15 Plasticity Index (%): 28

Tested By: **David Rosales Date Tested:** 3/1/2023



CC: COLBY OGLETREE

Proctor Report

Client: ASHTON WOODS

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

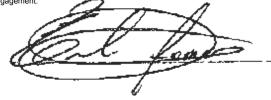
Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-137-S2

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

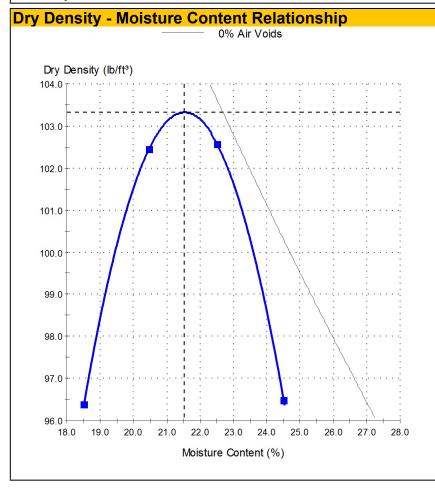
Sample Details

Sample ID:03113615-137-S2Client Sample ID:Lab #113Date Sampled:2/22/2023Date Received:2/22/2023Sampled By:David GarzaSpecification:SubgradeSupplier:In-situ materialSource:In-situ material

Material: Brown Lean Clay w/Sand (CL), (Subgarde /

Backfill / General Fill)

General Location:RoadwayLocation:On siteTested By:David RosalesDate Tested:3/1/2023



Test Results

Sampling Method: Sampled Onsite

Tex-114-E

Maximum Dry Density (lb/ft³): 103.3 Optimum Water Content (%): 21.5

Tested By: David Rosales

Date Tested: 3/1/2023

ASTM D 4318

Liquid Limit (%): 42
Plastic Limit (%): 13
Plasticity Index (%): 29

Tested By: David Rosales **Date Tested:** 3/1/2023



CC: COLBY OGLETREE

Fax: (210) 342-9401

Proctor Report

Client: **ASHTON WOODS**

17319 SAN PEDRO, SUITE 140 SAN ANTONIO, TX 78232

Project: ECHTLE SUBDIVISION UNIT 1

SAN ANTONIO, TX

Report No: PTR:03113615-153-S1

Issue No: 1

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Approved Signatory: Ernesto Gomez (Project Manager)

Sample Details

Sample ID: 03113615-153-S1 **Date Sampled:** 3/22/2023 Specification: Subgrade Source: In-situ material

Sampling Method: Sampled Onsite

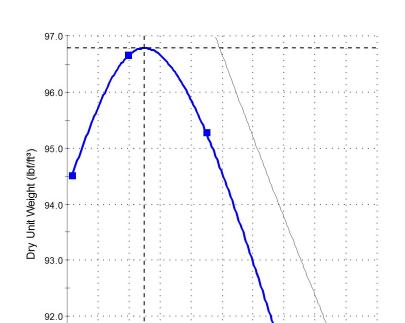
Location: On site **Date Tested:** 3/21/2023 Client Sample ID: Lab #170

Sampled By: Richard Robles Supplier: In-situ material

Brown Clay (Lime Treated Subgrade) Material:

General Location: Masterson Rd. **David Rosales** Tested By:

Dry Unit Weight - Water Content Relationship 0% Air Voids



25.0 26.0 27.0

Water Content (%)

	Test Results			
l	ASTM D 698			
	Maximum Dry Unit Weight (lbf/ft³):	96.8		
l	Optimum Water Content (%):	23.5		
l	Method:	Α		
l	Preparation Method:	Moist		
l	Rammer Type:	4" Standard		
l	Specific Gravity (Fines):	2.60		
l	Specific Gravity Method:	Estimated		
l	Tested By:	David Rosales		
l	Date Tested:	3/21/2023		
l	ASTM D 4318			
l	Liquid Limit (%):	32		
l	Plastic Limit (%):	18		
l	Plasticity Index (%):	14		
l	Tested By:	David Rosales		
l	Date Tested:	3/21/2023		

Comments

21.0 22.0 23.0 24.0

29.0