



Forms and Reports contained in:

Basic Construction Inspection and Materials Testing

Project Template and Report Package

This package contains samples of the User Input Forms and associated Reports that are included in the “Basic Construction Inspection and Materials Testing” package. Use the “Book Mark” Feature of your PDF viewer to see Table of Contents listing of all pages contained in this document.

Thank You for your interest in Vahalo Technical Management Software.

For more information please visit our Website: www.Vahalo.com

Or Email: info@vahalo.com

Table of Contents

Daily Inspection Report	4
Soil Densities – 10 Tests	5
Inspection Checklist – Embankment Soils Full Advanced	7
Soil Densities Average of 2 - 10 Tests	14
Soil Density Sand Cone	18
Inspection Checklist - UTBC	19
Inspection Checklist – Granular Borrow	23
Material Sample for Lab Tests	27
Atterberg Limits	29
Moisture Content	33
Moisture Content and Fines	35
Gradation Pit Run	37
Gradation Standard	40
Proctor	42
Angle of Internal Friction	44
Coarse Aggregate Specific Gravity	45
Fine Aggregate Specific Gravity	47
Concrete Placement Advanced with MD Inspection	50
Concrete Tests (One or More Cylinder Sets)	57
Full Inspection Sample Cylinder Set	64
Concrete Sample Flex Beam Set	67
Inspection Checklist – Concrete/Steel Reinforcement	71
Concrete Yield & Unit Weight Calculations	76
Material Aggregate Pit Sample	78
Clay Lumps & Friable Particles	79
Dry Rodded Unit Weight	81
Flakiness Index	83
Flat & Elongated Particles	85
LA Abrasion	87
Moisture Vapor Emission	91
Sand Equivalent	93

Soundness of Fine and Coarse Agg	96
Uncompacted Voids	98
Asphalt Inspection	99
HMA Incineration Grade	105
HMA PG Binder	107
HMA Rice Specific Gravity	109
HMA Incineration Grade Full Sublot	111
HMA 1 pt Marshall Asphalt Properties	117
HMA Bulk Specific Gravity	119
HMA Fractured Faces	121
Cores w/Thickness & Density	123
Incineration Points	125
HMA Density (10 Line Grid)	127
Inspection Checklist – HMA Placement	130
HMA Placement - Density Test (10 Line Grid)	133
HMA Mat Cores	135
Inspection Checklist – Clear & Grub	139
Inspection Checklist – Crushing Observation	143
Inspection Checklist - Drainage	150
Inspection Checklist - Landscape	155
Generic Inspection	158
Issues In Process	161
Job Cancellation	164
Inspection Checklist – City Asset	165
Project Manager's Report Approval Efficiency	170
Daily Report Creation Summary	170
Project Files By Task	171
Job Safety Analysis	172
Safety Observation Checklist	181
Job Site Analysis	184
Issue Resolution	188

Daily Inspection Report

Reports

[Assignment Summary](#)[Web-Daily Report](#)[Pmt-Daily Report](#)

Inspection Date August 24, 2016

[Today](#)[Clear](#)

Location Map Marker

[Here](#)[Map](#)[Clear](#)

Contractor Joe's Contracting

Crew Foreman Joe Smith

Weather Partly Cloudy ▼

Temperature Cool 45 - 50 ▼

Item Inspected These Items

Location/Feature Detail Over here

Pay Item (Select) Search or browse ▼

Pay Item PO WO (If No Pay 546

Item Setup)

Remarks My Comments

Discrepancies My Discrepancies.



Daily Construction Observation Report

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 8/24/16

Internal Proj. No: Star-Lab1

Client Reference No: 45678

Crew Foreman:

Contractor: Joe's Contracting

Project/Task/Assn: ZMR Lab Testing and Inspection / STRUCTURAL STEEL
/ Daily Construction Report

Activity/PayItem:

Temperature: Cool 45 - 50

Weather: Partly Cloudy

Items Inspected: These Items

Location: Over here

Remarks: My Comments

Discepancies: My Discrepancies.

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/fca35421-7757-4ca2-f2e2-4c48ef2f4c7c>

Soil Densities – 10 Tests

Reports

Assignment Summary

Web-Nuclear Density Report Simple WP

Print Soil Dens Simple W P

Test Date February 7, 2019

Today

Clear

Test Method Standard

ASTM

AASHTO

Location Map Marker

40.477001,-111.9069481

Here

Map

Clear

Location Description

Footings @ grids EDD/E5-E6; AJ/A1-A2

Material Source (Select

Resource)

Select

Clear

Mtl Description (If No Material

Source Resc)

roadbase

Mtl Source (If No Material

Source Resc)

Import staker bingelli pit

Material Grade Criteria

(Select Resource)

ITD Borrow/CF

Select

Clear

Spec Requirement Summary

Summary of spec requirement.

Spec Compaction (If No

Grade Criteria Resc)

95

Proctor (Select Resource)

Select

Clear

Name of Contractor Providing

cmt 734535

Proctor

Max Density (If No Proctor

Resc)

132.9

Opt Moisture (If No Proctor

Resc)

7.3

Nuke Gauge (Select

Resource)

Troxler 04

Select

Clear

Std Count-MS

417

Std Count-DS

2733

Location/Elev	Probe Depth	Wet Dens PCF	Moist (%)	Dry Dens PCF	Proctor Max Dens PCF	Proctor Opt Moist (%)	Comp action (%)
ed/e5-e6 3' to w side	6	140.0	8.9	128.6	132.9	7.3	96.7%
ed/e5-e6 3' to e side	6	141.6	8.1	131.0	132.9	7.3	98.6%
aj/a1-a2 3' to w side	6	140.3	9.8	127.8	132.9	7.3	96.1%
aj/a1-a2 3' to e side	6	138.9	8.4	128.1	132.9	7.3	96.4%
				0.0	132.9	7.3	0.0%
				0.0	132.9	7.3	0.0%
				0.0	132.9	7.3	0.0%
				0.0	132.9	7.3	0.0%
				0.0	132.9	7.3	0.0%
				0.0	132.9	7.3	0.0%

Quantity Tested

4

Comments

Our Rep arrived onsite to perform compaction tests at locations noted above using a gauge. All Tests in compliance with project specifications.

If this is a RETEST, Select

the Failed Test

Search or browse

Pay Item (Select from Pre-

setup List)(Type-Ahead)

Search or browse

Pay Item PO WO (If

PayItems Not Pre-setup)

A83640



Nuclear Density Tests

ASTM: D-6938

Client: Star Fleet Construction
Address: 3166 Decker Dr.
 Baytown, Texas 77520

Project No: Star-Lab1
Client Ref No: 45678
Client Pay Item:

Report Date: 2/26/2019

Date Tested: 2/7/19

Gauge: 3265

Model/SN: 3500 / 3265

Std Count-MS: 417

Std Count-DS: 2733

Calibration Date: 2/8/19

Spec Compaction: 95

Project: ZMR Lab Testing and Inspection

Proctor: cmt 734535

Material Source: import staker bingelli pit

Mtl Criteria: ITD Borrow/CF

Material Desc: roadbase

Location: Footings @ grids ED/E5-E6; AJ/A1-A2

Spec Summary: Summary of spec requirement.

Approximate Location & Elevation	Probe Depth	Wet Dens PCF	Moist (%)	Dry Dens PCF	Proctor Max Dens PCF	Proctor Opt Moist (%)	Compaction (%)	Pass Fail
#1 ed/e5-e6 3' to w side	6	140	8.9	128.6	132.9	7.3	96.7%	Pass
#2 ed/e5-e6 3' to e side	6	141.6	8.1	131.0	132.9	7.3	98.6%	Pass
#3 aj/a1-a2 3' to w side	6	140.3	9.8	127.8	132.9	7.3	96.1%	Pass
#4 aj/a1-a2 3' to e side	6	138.9	8.4	128.1	132.9	7.3	96.4%	Pass
				0	132.9	7.3	0.0%	
				0	132.9	7.3	0.0%	
				0	132.9	7.3	0.0%	
				0	132.9	7.3	0.0%	
				0	132.9	7.3	0.0%	
				0	132.9	7.3	0.0%	

Comments: Our Rep arrived onsite to perform compaction tests at locations noted above using a gauge. All Tests in compliance with project specifications.

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/21028737-9776-4711-7f0b-25166ac0339f>

Path:Task/Form SOILS TESTING AND OBSERVATION / Star-Lab1 SoilDens 2/8 JW

Inspection Checklist – Embankment Soils Full Advanced

Reports

[Assignment Summary](#)
[Web-Nuclear Density Report \(< 8 Sublots\)](#)
[Web-Inspection Check list - Embankment](#)
[Print-Insp Checklist E M B](#)

Inspection Details

Inspection Date February 1, 2019

[Today](#)
[Clear](#)

Location Map Marker

[Here](#)

[Map](#)

[Clear](#)

Location/Feature Detail

Retaining wall S.W corner of project

Pay Item

Search or browse

Station Begin

4

Station End

10

Offset Begin

2

Offset Begin Left/Right

[LT](#)
[RT](#)

Offset End

4

Offset End Left/Right

[LT](#)
[RT](#)

Default Proctor

[Proctor - 114@12 SW Point North](#)

[Clear](#)

Default Nuke Gauge

[Troxler 04](#)

[Clear](#)

Default Probe Depth (in)

18

Std Count-MS

4

Std Count-DS

6

Material Installed

[Existing - Onsite](#)

[Clear](#)

Material Grade Criteria

[ITD Aggregate Base](#)

[Clear](#)

Default Lift Thickness

24

(inches)

Test Frequency OR (Leave

Blank if # SubLots is filled in)

Number of Sublots (Leave

4

Blank if Test Frequency is

Filled in)

[Auto-Create SubLots](#)

Crew Foreman

[Doctor Spock](#)

[Clear](#)

Spec Summary

[Summary](#)

MATERIALS SOURCE DOCUMENTED •
Source/supplier verified • Submittals reviewed
and Approved • Adequate lab test samples
taken

Mtl Documentation

Acceptable?

[Accept](#)
[Report](#)
[NA](#)

Mtl Documentation Remarks

Material source/supplier is
UNacceptable.

Insufficient Lab Samples
have been taken to meet
frequency requirements for
all required tests. (Proctors,
gradations classifications,
electro chemicals, Atterberg
etc.)

Some Required submittals
are MISSING.

See attached Issue
Resolution (RD, NCR, RFI,
FDC, CO etc.)

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);

**SITE PREP • Cleared and Grubbed • Within limits •
Drainage Maintained • No unsuitable, soft, wet,
frozen, Subgrade • Steep slopes benched/stepped**

Site Prep Acceptable?

Accept

Report

NA

Site Prep Remarks

Site was NOT cleared, grubbed
and excavated within plan limits.

On sloped areas greater than
4:1, horizontal
benching/stepping was NOT
used.

Site was NOT graded to
maintain drainage.

See attached Issue Resolution
(RD, NCR, RFI, FDC, CO etc.)

Soft, wet, frozen or unsuitable
subgrade material has NOT
been removed or mitigated.

Site was NOT graded to maintain drainage.;

**PLACEMENT METHOD • Previous Lifts Complete
• Suitable Equipment used • Lifts uniform, correct
thickness (max 12") • Boulders/oversized pieces •
Final grade checked • Material segregation • Side
slopes**

Placement Method

Accept

Report

NA

Acceptable?

Placement Method Remarks

Previous lifts Do NOT meet
requirements.

Final grade was verified to be
within acceptable limits using
cross sections, string line, or
other method. (describe)

Previous lifts have
UNRESOLVED ISSUES
outstanding.

Segregation of coarse and fine
material required reworking.

Material was NOT spread
evenly in uniform lifts of 12" or
less as required in a timely
manner, using a grader of
suitable capability.

Side slopes were NOT at proper
grade.

Large boulders caused
compaction problems.

Side slopes were NOT properly
finished.

Large boulders/chunks caused
unacceptable protrusions .

See attached Issue Resolution
(RD, NCR, RFI, FDC, CO etc.)

Previous lifts Do NOT meet requirements.;

**EXCAVATED AREAS • Existing material scarified
to 8 inches • Re-compacted**

Excavated Area Acceptable?

Accept

Report

NA

Excavated Area Remarks

In excavated areas, existing
material was NOT scarified to 8
inches.

Existing material was NOT
properly re-compacted.

See attached Issue Resolution
(RD, NCR, RFI, FDC, CO etc.)

MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl

Compaction Properties	Accept	Report	NA
Acceptable?			
Compaction Properties	Organic and unsuitable material caused areas of low compaction		
Remarks	To reduce moisture, material was win rowed and allowed to dry.		
	Excess moisture in silty material led to pumping and insufficient compaction		
	Material was Contaminated or Frozen.		
	Water truck was used to add moisture to the material.		
	Particle Sizes appear to be OUTSIDE of acceptable limits, samples have been taken for testing to meet frequency requirements.		
	Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.		
	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		

COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges

Compaction Method	Accept	Report	NA
Acceptable?			
Compaction Method	Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material		
Remarks	Small skid or roller vibratory compactor was used to compact areas that were inaccessible to the large roller.		
	Stepping was not used on a side slope which lead to inconsistent lift thickness and insufficient compaction in thicker areas		
	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		
	Excessive compactive effort led to material degradation		
General Comments	Comments		
Weather	Clear w/ Wind ▼		
Temperature	Cool 45 - 50 ▼		

Inspection Duration (Hours)	1		
Quantity Calc Method	Area x Lift thickness Calc	Truck Count	
	Field Count	Truck Tickets	
	Other Method	Volume Estimate	
	Field Count;		
Actual Minimum Density	11.6		
Actual Average Density	16.4		
Calc'd Qty (CY)	0.8		
Calc'd Qty (SY)	1.1		
Entered Qty Installed (CY)	15		
Entered Qty Installed (SY)	20		
Entered Qty Lift Count (EB only)	12		
Acceptance Decision	Pass	Fail	Eng. Judge In Progress

Soil Densities

Sublot Density Test

Sample Type	Rand Ind		
Split Sample ID	3455		
Date/Time of Test	February 01, 2019 15:05	Now	Clear
Proctor	Proctor - 114@12 SW Point North	Select	Clear
Nuke Gauge	Troxler 04	Select	Clear
SubLot Sta Begin	4		
SubLot Sta End	6		
SubLot Offset Begin	2		
SubLot Offset Begin Left/Right	LT	RT	
SubLot Offset End	4		
SubLot Offset End Left/Right	LT	RT	
Width (Ft)	6		
Location/Feature Detail	Grids C-D/3		
Lift Number (Integer)	54		
Lift Thickness (in)	24		
Area (SY)	1.3		
Volume (CY)	0.9		

Random 1 0.7726

Random 2 0.4573

Calc Dens Test Location

Test Station

6

Test Offset

1

Test Offset Left/Right

LT

RT

Probe Depth (in)

18

1Wet Density (pcf)

14

1Moisture Content (%)

10

1Dry Density (pcf)

12.7

1Compaction (%)

11.2

2Wet Density (pcf)

20

2Moisture Content (%)

15

2Dry Density (pcf)

17.4

2Compaction (%)

15.3

Average Compaction (%)

13.2

Density Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Moisture Pass Fail Eng.

Judge

Pass

Fail

Eng. Judge

In Progress



Embankment Placement Inspection and Check List

Report Date: 2/26/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 2/1/19

Project No: Star-Lab1

Client Project No: 45678

Crew Foreman:

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 SoilInsp FB 1/24

Pay Item:

Material: Existing - Onsite

Mtl Grade: ITD Aggregate Base

Location: Retaining wall S.W corner of project

Begin Sta/Off: 00+04 2LT

Lot End Sta/Off: 00+10 4RT

Spec Summary: Summary

Area of Concern	Accept Report	Comments
MATERIALS SOURCE DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken	Accept	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);
SITE PREP • Cleared and Grubbed • Within limits • Drainage Maintained • No unsuitable, soft, wet, frozen, Subgrade • Steep slopes benched/stepped	Report	Site was NOT graded to maintain drainage.;
EXCAVATED AREAS • Existing material scarified to 8 inches • Re-compacted	Accept	
PLACEMENT METHOD • Previous Lifts Complete • Suitable Equipment used • Lifts uniform, correct thickness (max 12") • Boulders/oversized pieces • Final grade checked • Material segregation • Side slopes	Report	Previous lifts Do NOT meet requirements.;
MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl	Accept	
COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges	Accept	

Weather: Clear w/ Wind

Temperature: Cool 45 - 50

Quantity Installed (CY): 15

Quantity Installed (SY): 20

Inspection Duration (Hours): 1

Actual Minimum Density: 2.978326631

Actual Average Density: 17.7

Acceptance Decision: Pass

General Comments: Comments

Inspector: Jenelle Wilcox

Digital Signature By User Login

Manager: Jenelle Wilcox

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/97f6dd8f-2fed-4f74-20cd-f72fe1d25caf>



Nuclear Density Tests

ASTM: D-6938 AASHTO: T-310

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 3/28/2019

Date Tested: 2/1/2019

Project No: Star-Lab1

Std Cnt-MS: 4

Gauge: Troxler 04

Client Project #: 45678

Std Cnt-DS: 6

Material Source: Existing - Onsite

Spec Dens: 95

Model: 4649 B

Material Criteria: ITD Aggregate Base

Req Freq. :

Cal Date: 6/4/14

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 SoilInsp FB 1/24

Pay Item:

Location: Retaining wall S.W corner of project

Begin Sta/Off:	00+04	2LT	Lot End Sta/Off:	00+10	4RT
-----------------------	-------	-----	-------------------------	-------	-----

Proctor: Proctor - 114@12 SW Point North Proctor - 114@12 SW Point North

MDD: 114 114

OMC: 12 12

Sample Type: Rand Ind Rand Ind

Lift No. 54 15

Loc Detail: Grids C-D/3 Grids C-D/4

Sublot Bgn Sta/Off : 4 - 2LT 15 - 1LT

Sublot End Sta/Off: 6 - 4RT 14 - 1RT

Random 1: 0.5025 0.326

Random 2: 0.5089 0.008

Test Station: 6 - 1LT 6 - 0RT

Probe Depth (in): 18 18

1Wet Density (pcf): 14 25

1Moist Content (%): 10 4

1Dry Density (pcf): 12.7 24

1Compaction (%): 11.1 21.1

2Wet Density (pcf): 20 32

2Moist Content (%): 15 3

2Dry Density (pcf): 17.4 31.1

2Compaction (%): 15.3 27.3

Avg Compaction: 13.2 24.2

Pass/Fail: Pass Pass

Comments: Comments

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/97f6dd8f-2fed-4f74-20cd-f72fe1d25caf>

Soil Densities Average of 2 - 10 Tests

Reports

[Assignment Summary](#)
[Web-Nuclear Density Report \(W/Proc\)](#)

Inspection Details

Contractor **Staker**Pay Item **Search or browse**

Location Map Marker

[Here](#)
[Map](#)
[Clear](#)
Location **Location**Nuke Gauge **Troxler 04**
[Select](#)
[Clear](#)
Std Count-MS **3654**Std Count-DS **465**Material **Elm St - Center St -ROW material**
[Select](#)
[Clear](#)
Material Grade Criteria **UDOT GE General Embankment**
[Select](#)
[Clear](#)

Spec Requirement Summary
 Spec Ref - 2056 • 12 in Max Lift Thickness • Max Boulder 3 ft largest Dimension • Density - 1 test per 5000 SY Sublot • Average of 2 tests >= 96% • Classification - 1 test per 20000 CY • Proctor - 1 test per 20000 CY

% Compaction (If Not Spec) **96**Proctor **Proctor - 114@12 SW Point North**
[Select](#)
[Clear](#)

Location/Elev	Probe Depth	Wet Dens PCF	Dry Dens PCF	Moist (%)	Proctor Max Dens PCF	Proctor Opt Moist (%)	Comp action (%)	0
Over there	10	127	109	9	114	12	95.6%	0
A location	10	123	108	12	114	12	94.7%	1
Average	10	125.00	108.50	10.50	114	12	95.2%	Pass ▼
Somewhere else	18	135	125	6	126	11	99.2%	
Another location	18	139	116	8	126	11	92.1%	
Average	18	137.00	120.50	7.00	126	11	95.6%	Pass ▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼
							0%	
							0.0%	
Average		0.00	0.00	0.00			0.0%	▼

Volume Estimate 27

Density Result 1 95.2

Density Result 2

Density Result 3

Density Result 4

Density Result 5

Density Result 6

Density Result 7

Density Result 8

Density Result 9

Density Result 10

Comments My Comments



Client: Star Fleet
Construction

Address: 3166 Decker Dr.
Baytown, Texas 77520

Client Ref No: 45678

Pay Item:

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Soil
Densities Avgof2 Inspection

Location: Location

Project No: Star-Lab1
Material: Elm St - Center St -ROW
material

Mtl Source: Just west of NB Lane

Proctor: Proctor - 114@12 SW
Point North

Proc Sample Date: 6/16/16

Nuclear Density Tests

Report Date: 2/26/2019

ASTM: D-6938

AASHTO: T-310

Date Tested: 9/2/16

Gauge: Troxler 04

Model: 4649 B

Std Count-MS: 3654

Std Count-DS: 465

Calibration Date: 6/4/14

Spec Compaction: 96

Approximate Location & Elevation	Probe Depth	Wet Dens (PCF)	Dry Dens (PCF)	Moist (%)	Proctor Max Dens (PCF)	Proctor Opt Moist (%)	Compaction (%)	Pass Fail
Over there	10	127	109	9	114	12	1.0	
A location	10	123	108	12	114	12	0.9	
Average	10	125.00	108.50	10.50	114	12	1.0	Pass
Somewhere else	18	135	125	6	126	11	1.0	
Another location	18	139	116	8	126	11	0.9	
Average	18	137.00	120.50	7.00	126	11	1.0	Pass
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	
							0	
							0	
Average		0.00	0.00	0.00			0	

Comments: My Comments

Technician: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/e34d7b62-eea4-4560-1b64-54a26b8eeb1a>

Soil Density Sand Cone

Reports

Assignment Summary

Print-Soils Sand Cone Density Report

Test Date	April 1, 2019	Today	Clear
Client Pay Item	Search or browse		
Pay Item WO PO	Pay Item		
Location Map Marker	Here Map Clear		
Scope	Sub base Backfill		
SubScope	Subscope		
Location Description	North West Shoulder		
Material Source	BG&S Open Graded Base Course Select Clear		
Material Source (If not selected via Resource)	A source		
Material Grade Criteria	ITD Borrow/CF Select Clear		
Spec Requirement Summary	Summary of spec requirement.		
Required % Compaction (If not Spec)			
Proctor	Proctor - 114@12 SW Point North Select Clear		
Proctor (If No Proctor Resc)			

Density Data

GROUND SURFACE CALIBRATION	
(A) CONTAINER NUMBER	8
(B) WT. INITIAL CONTAINER + SAND	15.741 LBS
(C) WT. AFTER CONTAINER + SAND	12.239 LBS
(D) WT. SAND (B-C) USE FOR K	3.502 LBS

DENSITY DETERMINATION	
(E) WET SAMPLE + CONTAINER	11.58 LBS
(F) WT. CONTAINER	0.656 LBS
(G) WT. WET SAMPLE (E-F)	10.920 LBS
(H) SAND + CONTAINER START (FROM C)	14.42 LBS
(I) SAND + CONTAINER FINISH	3.3140 LBS
(J) SAND IN HOLE + CONE (H-I)	11.1080 LBS
(K) SAND IN LOWER CONE + PLATE (D)	3.502 LBS
(L) SAND IN HOLE ONLY (J-K)	7.6060 LBS
(M) DENSITY OF SAND	95.300 LBS
(N) VOLUME OF HOLE (L/M)	0.0798 CU FT
(P) UNIT WET WT. SAMPLE (G/N)	136.8 LBS/CU FT
(R) UNIT DRY WT. SAMPLE (P/100+Y)	123.0 LBS/CU FT

MOISTURE CONTENT	
(S) CONTAINER NUMBER	CAR
(T) WT. MOIST SAMPLE + CONTAINER	904.5 GRAMS
(U) WT. DRY SAMPLE + CONTAINER	843.0 GRAMS
(V) WT. OF WATER (T-U)	61.50 GRAMS
(W) WT. OF CONTAINER	297.5 GRAMS
(X) WT OF DRY SAMPLE (U-W)	545.5 GRAMS
(Y) PERCENT MOISTURE ((V/X)*100)	11.27 %

CALIBRATION OF DENSITY SAND	
(1) WT. OF SAND + TARE	21.5 LBS
(2) WT. OF TARE	14.41 LBS
(3) WT. OF SAND + TARE	7.15 LBS
(4) VOL. OF CONTAINER	0.075 CU FT
(5) WT. CU-FT OF SAND (3/4)	95.280 LBS

COMPARISON OF FIELD DENSITY TO PROCTOR	
(6) SEE PROCTOR LAB NUMBER	NRB-4/67387
(7) MAXIMUM DENSITY	130.3 LBS/CU FT
(8) DEGREE OF COMPACTION (R/7)	94.4 %
(9) COMPACTION REQUIRED	90 %
(10) OPTIMUM MOISTURE	9.5 %
(11) AMT. RETAINED ON #4	1 LBS 1 %
(12) AMT. RETAINED ON 3/4"	2 LBS 2 %
(13) TOTAL WT.	3 LBS 100 %

% Compaction 94.4

Comments Some comments

Result
Pass Fail Eng. Judge In Progress



Client Star Fleet Construction

Address 3166 Decker Dr.
Baytown Texas, 77520

Material Installed BG&S Open Graded Base Course

Material Source NW corner of North Yard

Project ZMR Lab Testing and Inspection

Pay Item

Location Detail North West Shoulder

Sand Cone Density Test

ASTM D1556

Report Date 8/27/2019

Date Inspected 4/1/2019

Project No 012225

Client Reference No 45678

Scope Sub base Backfill

SubScope Subscope

GROUND SURFACE CALIBRATION

(A) Container Number	B
(B) Wt. Initial Container + Sand	15.741 LBS
(C) Wt. After Container + Sand	12.239 LBS
(D) Wt. Sand (B-C) Use For K	3.502 LBS

DENSITY DETERMINATION

(E) Wet Sample + Container	11.576 LBS
(F) Wt. Container	0.656 LBS
(G) Wt. Wet Sample (E-F)	10.920 LBS
(H) Sand + Container Start (From C)	14.422 LBS
(I) Sand + Container Finish	3.314 LBS
(J) Sand In Hole + Cone (H-I)	11.108 LBS
(K) Sand In Lower Cone + Plate (D)	3.502 LBS
(L) Sand In Hole Only (J-K)	7.606 LBS
(M) Density Of Sand	95.300 LBS
(N) Volume Of Hole (L/M)	0.080 CU FT
(P) Unit Wet Wt. Sample (G/N)	136.82 LBS/CU FT
(R) Unit Dry Wt. Sample (P/100+Y)	122.96 LBS/CU FT

DENSITY DETERMINATION

(S) Container Number	CAR
(T) Wt. Moist Sample + Container	904.50 GRAMS
(U) Wt. Dry Sample + Container	843.00 GRAMS
(V) Wt. Of Water (T-U)	61.50 GRAMS
(W) Wt. Of Container	0.66 GRAMS
(X) Wt. Of Dry Sample (U-W)	545.50 GRAMS
(Y) Percent Moisture ((V/X)*100)	11.27 GRAMS

Maximum Dry Density 130.30

% Compaction 94.4

CALIBRATION OF DENSITY SAND

(1) Wt. Of Sand + Tare	21.549 LBS
(2) Wt. Of Tare	14.408 LBS
(3) Wt. Of Sand + Tare	7.146 LBS
(4) Vol. Of Container	0.075 CU FT
(5) Wt. Cu-Ft Of Sand (3/4)	95.28 LBS

CALIBRATION OF DENSITY SAND

(6) See Proctor Lab Number	NRB-4/673875
(7) Maximum Density	130.30 LBS/CU FT
(8) Degree Of Compaction (R/7)	94.4 %
(9) Compaction Required	90.00 %
(10) Optimum Moisture	9.50 %
(11) Amt. Retained On #4	1.00 LBS 2.00 %
(12) Amt. Retained On 3/4"	3.00 LBS 1.00 %
(13) Total Wt.	2.00 LBS 100 %

Required Density 95

Acceptance Decision Pass

Remarks: Some comments

Inspector:

Digital Signature By User Login

Manager

Digital Signature By User Login

System Link <http://demo.vahalo.com/assignments/BEFF222F-2CD0-484C-1770-69807924E655>

System Path ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 SoilSandCone 8/6 JW

8/27/2019 10:47:37 AM

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!

Page 21 of 215

1

Inspection Checklist - UTBC

Reports

[Assignment Summary](#)
[Web-Nuclear Density Report \(< 8 Sublots\)](#)
[Web-Inspection Check list - UTBC](#)
[Pmt-Insp Chdlist U T B C](#)

Inspection Details

Test Date	June 15, 2016	Today	Clear
Location Map Marker	39.7822748,-112.1191424	Here	Map Clear
Location/Feature Detail	Here		
Pay Item	UTBC - Segment 2.1		
Station Begin	2565		
Station End	2876		
Offset Begin	23		
Offset Begin Left/Right	LT RT		
Offset End	3		
Offset End Left/Right	LT RT		
Default Nuke Gauge	Troxler 04 Select Clear		
Std Count-MS	532		
Std Count-DS	967		
Default Probe Depth (in)	10		
Default Lift Thickness (inches)	12		
Material	BG&S Untreated Base Course Type I Select Clear		
Material Grade Criteria	UDOT UTBC I Select Clear		
Spec Requirement	1 test per subplot of 2500 sy.		
Default Proctor	Proctor - 114@12 SW Point North Select Clear		
Test Frequency OR (Leave Blank if # SubLots is filled in)			

Number of Sublots (Leave Blank if Test Frequency is Filled in)	4
--	---

Auto-Create SubLots

Crew Foreman

[Mark Twain](#)
[Select](#)
[Clear](#)

MATERIALS SOURCE DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken

MII Documentation Acceptable?	Accept	Report	NA
MII Documentation Remarks	Material source/supplier is UNacceptable. Some Required submittals are MISSING. Material source/supplier is UNacceptable.;		
	Insufficient Lab Samples have been taken to meet frequency requirements for all required tests. (Proctors, gradations classifications, electro chemicals, Atterberg etc.) See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		

SITE PREP - Cleared and Grubbed - Within limits - Drainage Maintained - No unsuitable, soft, wet, frozen, Subgrade - Steep slopes benched/stepped

Site Prep Acceptable?	Accept	Report	NA
Site Prep Remarks	Site was NOT cleared, grubbed and excavated within plan limits. Site was NOT graded to maintain drainage. Soft, wet, frozen or unsuitable subgrade material has NOT been removed or mitigated. Site was NOT graded to maintain drainage.;		
	On sloped areas greater than 4:1, horizontal benching/stepping was NOT used. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		

EXCAVATED AREAS • Existing material scarified to 8 inches • Re-compacted

Excavated Area Acceptable?	Accept	Report	NA
Excavated Area Remarks	In excavated areas, existing material was NOT scarified to 8 inches. Existing material was NOT properly re-compacted. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) In excavated areas, existing material was NOT scarified to 8 inches.;		

PLACEMENT METHOD • Previous Lifts Complete • Suitable Equipment used • Lifts uniform, correct thickness (max 12") • Boulders/oversized pieces • Final grade checked • Material segregation • Side slopes

Placement Method Acceptable?	Accept	Report	NA
Placement Method Remarks	Previous lifts Do NOT meet requirements. Final grade was verified to be within acceptable limits using cross sections, string line, or other method. (describe) Previous lifts have UNRESOLVED ISSUES outstanding. Segregation of coarse and fine material required reworking. Material was NOT spread evenly in uniform lifts of 12" or less as required in a timely manner, using a grader of suitable capability. Side slopes were NOT at proper grade. Large boulders caused compaction problems. Side slopes were NOT properly finished. Large boulders/chunks caused unacceptable protrusions . See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Previous lifts have UNRESOLVED ISSUES outstanding.;		

MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl

Compaction Properties Acceptable?	Accept	Report	NA
Compaction Properties Remarks	Organic and unsuitable material caused areas of low compaction To reduce moisture, material was win rowed and allowed to dry. Excess moisture in silty material led to pumping and insufficient compaction Material was Contaminated or Frozen. Water truck was used to add moisture to the material. Particle Sizes appear to be OUTSIDE of acceptable limits, samples have been taken for testing to meet frequency requirements. Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Organic and unsuitable material caused areas of low compaction;		

COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges

Compaction Method Acceptable?	Accept	Report	NA
Compaction Method Remarks	Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material Small skid or roller vibratory compactor was used to compact areas that were inaccessible to the large roller. Stepping was not used on a side slope which lead to inconsistent lift thickness and insufficient compaction in thicker areas See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Excessive compactive effort led to material degradation Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material;		

General Comments	Gen Comments			
Weather	Partly Cloudy ▼			
Temperature	Cool 45 - 50 ▼			
Inspection Duration (Hours)	6			
Actual Minimum Density				
Actual Average Density	24.6			
Calc'd Qty (CY)	3619.6			
Calc'd Qty (SY)	10858.9			
Entered Qty Installed (CY)	3450			
Entered Qty Installed (SY)	10789			
Acceptance Decision	Pass	Fail	Eng. Judge	In Progress



Base Layer Placement Inspection and Check List

Report Date: 3/22/2019

Client: British Lanolium

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505

Inspection Date: 6/15/16

Project No: BR-HWN

Client Project No: 562355

Crew Foreman:

Project/Task/Assn: Bedrock Highway Design Build / UTBC Base Leveling Course / UTBC Insp ChkList

Pay Item: UTBC - Segment 2.1

Material: BG&S Untreated Base Course Type I

Mtl Grade: UDOT UTBC I

Location: Here

Begin Sta/Off: 25+65 23LT

Lot End Sta/Off: 28+76 3RT

Spec Summary: 1 test per subplot of 2500 sy.

Area of Concern	Accept Report	Comments
MATERIALS SOURCE DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken	Accept	Material source/supplier is UNacceptable.;
SITE PREP - Cleared and Grubbed - Within limits - Drainage Maintained - No unsuitable, soft, wet, frozen, Subgrade - Steep slopes benched/stepped	Accept	Site was NOT graded to maintain drainage.;
EXCAVATED AREAS • Existing material scarified to 8 inches • Re-compacted	Accept	In excavated areas, existing material was NOT scarified to 8 inches.;
PLACEMENT METHOD • Previous Lifts Complete • Suitable Equipment used • Lifts uniform, correct thickness (max 12") • Boulders/oversized pieces • Final grade checked • Material segregation • Side slopes	Accept	Previous lifts have UNRESOLVED ISSUES outstanding.;
MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl	Accept	Organic and unsuitable material caused areas of low compaction;
COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges	Accept	Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material;

Weather: Partly Cloudy

Temperature: Cool 45 - 50

Quantity Installed (CY): 3450

Quantity Installed (SY): 10789

Inspection Duration (Hours): 6

Actual Minimum Density:

Actual Average Density: 24.6

Acceptance Decision: Pass

General Comments: Gen Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/19aa8562-232b-4032-6e95-42e57ad244a3>

Manager: *Greg Putnam*

Digital Signature By User Login

Inspection Checklist – Granular Borrow

Inspection Details

Test Date	December 17, 2015	Today	Clear
Pay Item	Granular Borrow - Segment 2.3		
Location Map Marker	40.3102962,-111.9003201	Here	Map
Location/Feature Detail	Left Shoulder Lane		
Station Begin	8500		
Station End	11899		
Offset Begin	24		
Offset Begin Left/Right	LT RT		
Offset End	47		
Offset End Left/Right	LT RT		
Default Proctor	Proctor - 115.7@10 (Corr) SW Geneva Select Clear		
Default Nuke Gauge	Troxler 04 Select Clear		
Std Count-MS	3245		
Std Count-DS	231		
Default Probe Depth (in)	10		
Default Lift Thickness	12		
(inches)			

Material	Mordor Quarry - Granular Borrow 3" minus	Select	Clear
Material Grade Criteria	UDOT GB Granular Borrow	Select	Clear
Test Frequency OR (Leave Blank if # SubLots is filled in)	5000		
Number of Sublots (Leave Blank if Test Frequency is Filled in)			
Auto-Create SubLots			

Crew Foreman [Luke Skywalker](#) [Select](#) [Clear](#)

MATERIALS SOURCE DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken

Mtl Documentation Acceptable?	Accept	Report	NA
Mtl Documentation Remarks	Material source/supplier is UNacceptable. Insufficient Lab Samples have been taken to meet frequency requirements for all required tests. (Proctors, gradations classifications, electro chemicals, Atterberg etc.) Some Required submittals are MISSING. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Material source/supplier in UNacceptable.; See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);		

SITE PREP - Cleared and Grubbed - Within limits - Drainage Maintained - No unsuitable, soft, wet, frozen, Subgrade - Steep slopes benched/stepped

Site Prep Acceptable?	Accept	Report	NA
Site Prep Remarks	Site was NOT cleared, grubbed and excavated within plan limits. On sloped areas greater than 4:1, horizontal benching/stepping was NOT used. Site was NOT graded to maintain drainage. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Soft, wet, frozen or unsuitable subgrade material has NOT been removed or mitigated. Site was NOT graded to maintain drainage.; Site was NOT graded to maintain drainage.;		

EXCAVATED AREAS • Existing material scarified to 8 inches • Re-compacted

Excavated Area Acceptable?	Accept	Report	NA
Excavated Area Remarks	In excavated areas, existing material was NOT scarified to 8 inches. Existing material was NOT properly re-compacted. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Existing material was NOT properly re-compacted.; r See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.); Existing material was NOT properly re-compacted.;		

PLACEMENT METHOD • Previous Lifts Complete • Suitable Equipment used • Lifts uniform, correct thickness (max 12") • Boulders/oversized pieces • Final grade checked • Material segregation • Side slopes

Placement Method Acceptable?	Accept	Report	NA
Placement Method Remarks	Previous lifts Do NOT meet requirements. Final grade was verified to be within acceptable limits using cross sections, string line, or other method. (describe) Previous lifts have UNRESOLVED ISSUES outstanding. Segregation of coarse and fine material required reworking. Material was NOT spread evenly in uniform lifts of 12" or less as required in a timely manner, using a grader of suitable capability. Side slopes were NOT at proper grade. Large boulders caused compaction problems. Side slopes were NOT properly finished. Large boulders/chunks caused unacceptable protrusions . See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Previous lifts have UNRESOLVED ISSUES outstanding.;		

MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl

Compaction Properties Acceptable?	Accept	Report	NA
-----------------------------------	--------	--------	----

Compaction Properties

Remarks

Organic and unsuitable material caused areas of low compaction

To reduce moisture, material was winrowed and allowed to dry.

Excess moisture in silty material led to pumping and insufficient compaction

Material was Contaminated or Frozen.

Water truck was used to add moisture to the material.

Particle Sizes appear to be OUTSIDE of acceptable limits, samples have been taken for testing to meet frequency requirements.

Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excess moisture in silty material led to pumping and insufficient compaction;

COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges

Compaction Method

Acceptable?

Accept

Report

NA

Compaction Method

Remarks

Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material

Small skid or roller vibratory compactor was used to compact areas that were inaccessible to the large roller.

Stepping was not used on a side slope which lead to inconsistent lift thickness and insufficient compaction in thicker areas

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excessive compactive effort led to material degradation

Excessive compactive effort led to material degradation;

General Comments

My Comments

Weather

Partly Cloudy

Temperature

Cool 45 - 50

Inspection Duration (Hours)

3

Spec Requirement

1 test per Sublot of 5000 SY. 96% Min, Average of two tests.

Actual Minimum Density

95.8

Actual Average Density

95.8

Calc'd Qty (CY)

2256.2

Entered Qty Installed (CY)

3420

Entered Qty Installed (SY)

2345

Acceptance Decision

Pass

Fail

Eng. Judge

In Progress

Technician Signoff

☑ Greg Putnam 1/2/16 9:30

Manager Signoff

☑ Greg Putnam 1/2/16 9:30



Granular Borrow Placement Inspection and Check List

Report Date: 3/19/2019

Client: British Lanolium

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505

Inspection Date: 12/17/15

Project No: BR-HWN

Client Project No: 562355

Crew Foreman:

Project/Task/Assn: Bedrock Highway Design Build / GB Granular Borrow / GB Insp ChkList

Pay Item: Granular Borrow - Segment 2.3

Material: Mordor Quarry - Granular Borrow 3" minus

Mtl Grade: UDOT GB Granular Borrow

Location: Left Shoulder Lane

Begin Sta/Off: 85+00 24RT

Lot End Sta/Off: 118+99 47RT

Spec Summary:

Area of Concern	Accept Report	Comments
MATERIALS SOURCE DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken	Accept	Material source/supplier in UNacceptable.; See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);
SITE PREP - Cleared and Grubbed - Within limits - Drainage Maintained - No unsuitable, soft, wet, frozen, Subgrade - Steep slopes benched/stepped	Accept	Site was NOT graded to maintain drainage.; Site was NOT graded to maintain drainage.;
EXCAVATED AREAS • Existing material scarified to 8 inches • Re-compacted	Accept	Existing material was NOT properly re-compacted.; r See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.); Existing material was NOT properly re-compacted.;
PLACEMENT METHOD • Previous Lifts Complete • Suitable Equipment used • Lifts uniform, correct thickness (max 12") • Boulders/oversized pieces • Final grade checked • Material segregation • Side slopes	Report	Previous lifts have UNRESOLVED ISSUES outstanding.;
MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl	Accept	Excess moisture in silty material led to pumping and insufficient compaction;
COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges	Accept	Excessive compactive effort led to material degradation;

Weather: Partly Cloudy

Temperature: Cool 45 - 50

Quantity Installed (CY): 3420

Quantity Installed (SY): 2345

Density Requirement: 1 test per Sublot of 5000 SY. 96% Min, Average of two tests.

Inspection Duration (Hours): 3

Actual Minimum Density: 95.8

Actual Average Density: 95.8

Acceptance Decision: Pass

General Comments: My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/6166c02a-28d7-48b4-60bc-1f17c07f791f>

Material Sample for Lab Tests

Reports

[Assignment Summary](#)
[Print Labels](#)

IMPORTANT!! - This assignment generates a **SAMPLE** that is started in the field and Completed in the LAB. Field personnel should mark Progress above to **STARTED**. Lab Personnel will mark it Complete once the sample is **RECEIVED** and processed at the lab

Sample Date Time	May 18, 2017 11:22	Now	Clear
SampleID/Barcode	CMT233456		
Sampled By Client?	☒ Yes ☐ No		
Test Method Standard	☒ ASTM ☐ AASHTO		
Client Pay Item PO WO	Pay Item		
Location Map Marker	Here Map Clear		
Material Source (Select Resource)	<input checked="" type="text"/> BG&S Open Graded Base Course Select Clear		
Material Source (If not selected via Resource)	SourceTxt		
Material Description (If not selected via Resource)	Desc		
Material Grade Criteria	<input checked="" type="text"/> ITD Aggregate Base Select Clear		
Material Target Criteria	Select Clear		
Sample Source	Pit/Stockpile		
DOT Sample Type	Random-Independent		
Oversight Split Sample ID			
Random 1	0.892		
Random 2	0.7687		

Test Station Grid

Sublot Station Begin		Sublot Offset Begin		
Sublot Station End		Sublot Offset End		
Test Station	0	Test Offset	0	

Feature

Feature ID (Lift, Pile#, Bent# etc.)

Elevation Desc
Location/Feature

Required Tests

Angle of Internal Friction	pH of Soils
CBR With R.R. Proctor	Proctor - Pending Classification
CBR W/O Proctor	Proctor-AASHTO T99 Standard
Chloride Content	Proctor-AASHTO T180 Modified
Direct Shear T-236	Proctor-ASTM D698 Standard
Electrochemical Test Set	Proctor-ASTM D1557 Modified
Fracture Face	Resistivity of Soils
Gradation - 1-inch Minus Std	Sand Equivalent
Gradation - Split	Soil Classification
Hydrometer Analysis	Specific Gravity
LA Wear	Sulfate Content
LL-PI (Atterberg Limits)	Unit Weight - Dry Rodded
Moisture Content	Unit Weight - Loose (Light Wt)
One Point Checkpoint	Unit Weight - C-131 or T-96
Organic content by Ignition	Unit Weight - C-535

Moisture Content (S39); Gradation - 1-inch Minus Std; Resistivity of Soils; Hydrometer Analysis; LL-PI (Atterberg Limits) Moisture Content One Point Checkpoint Hydrometer Analysis Fracture Face Proctor-ASTM D1557 Modified Angle of Internal Friction CBR With R.R. Proctor CBR W/O Proctor Chloride Content

Comments

My Coments

Lab Where Sample was
Dropped off:

My Awesome Co. SLC Lab

Select

Clear

Atterberg Limits

Test DateSeptember 3, 2021TodayClear

Date Sample ReceivedSeptember 3, 2021TodayClear

Test MethodAASHTO T???ASTM D????Edit List

Comment of DeviationsNo Deviations

Liquid Limit

AASHTO T89: Liquid Limit

Point Number	1	2
Container Number	23	32
Wt. of Wet Soil + Tare	20.00	24.70
Wt. of Dry Soil + Tare	19.30	23.43
Wt. of Tare	13.58	13.48
Number of Blows	24	23
Wt. of Water	0.70	1.27
Percent Moisture	12.24	12.76

T90: Plastic Limit Plasticity Index

Container Number	24	36
Wt. of Wet Soil + Tare	18.40	20.10
Wt. of Dry Soil + Tare	17.70	19.30
Wt. of Tare	10.45	10.58
Wt. of Water	0.70	0.80
Percent Moisture	9.66	9.17
Uncorrected Liquid Limit	12.5	
Liquid Limit	12.38	
Plastic Limit	9	
Plasticity Index	3.38	

Non Plastic?

Yes

No

Comments

My Comments

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Technician Signoff

☐ Unsigned

☒ Sign as Greg Putnam

Manager Signoff

☐ Unsigned

☒ Sign as Greg Putnam

Include in Summary Report?

Yes

No


ACME
 WIDGETS LTD.

1/5/2022

Atterberg Limits 1 Pt.

ASTM: D-4318 AASHTO: T-89, T-90

Client Star Fleet Energy
Address Main Shop 2
 5041 Pasadena Hwy
 #701
 Pasadena Texas, 77505
Project No Star-Lab1**Client Reference No** 45678**Barcode** CMM050319A**Material Source** BG&S Open Graded Base Course**Material Description** Material Desc. From Resc**Project** ZMR Retail Testing**Location Detail** Location/Feature**Comment of Deviations** No Deviations**Date Tested** 9/3/2021**Sample Rec. Date** 9/3/2021**Date Sampled** 5/18/2017**Sampled By** Greg Putnam**LL** = 12**PL** = 9**PI** = 3**Comments** My Comments**Tested By** *Greg Putnam*

Digital Signature By User Login

Manager

Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of My Awesome Co..

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505**System Link** <http://steploc.com/assignments/DF522F24-5376-4AE7-5AA5-DA8C06489816>**System Path** ZMR Retail Testing / SOILS TESTING AND OBSERVATION / Star-Lab1 LLPlasticLimit1pt 7/6 GP

1/5/2022 9:30:32 AM

Electrochemical Test Set

Test Date	November 16, 2016	🕒 Today	🗑️ Clear
Resistivity (>3000Ohm-cm)	3		
pH (5-10)	4		
Chlorides (<100 ppm)	5		
Sulfates (<200 ppm)	6		
Organic Content (<=1%)	7		
Pass Fail Eng. Judge	Pass Fail Eng. Judge In Progress		
Remarks	My Comments		



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Electro Chemical Test Set

AASHTO: T-228, T-229, T290, T291

Report Date: 2/26/2019

Date Tested: 11/16/16

Pit/Plant: North Pit

Material Description: BG&S - Select Backfill MSE

Sample No.: CMT233456

Project No: Star-Lab1

Client Job No: 45678

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 MSE Electrochem 2/26 JW

Pay Item:

Location: Location/Feature

Resistivity (>3000Ohm-cm)	3
pH (5-10)	4.00
Chlorides (< 100 ppm)	5.0
Sulfates (< 299 ppm)	6.0
Organic Content (<=1%)	7.00

Comments: My Comments

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/92dc105b-a3e6-48f6-3e50-bda5234e4440>

Moisture Content

Reports

🔍 Assignment Summary

🔍 Web-Moisture Content Report

🔍 Prnt-Moisture Rpt

Test Date

August 8, 2019

📅 Today

🗑 Clear

Moisture Content

D2216,T255,T265: Moisture Content

Pan ID:	AA
Pan + Wet Weight, W 1 (g):	3,353
Tare + Dry Weight W 2 (g):	3,196
Water Weight, W w =W 1 -W 2 (g):	158
Empty Pan Wt, W c (g):	750
Dry Aggregate Weight, W s =W 2 -W c (g):	2,446
Percent Moisture, 100 (W w /W s) (%):	6.4%

Pass Fail

Pass

Fail

Eng. Judge

In Progress

Comments

Manager Signoff ☒ Jenelle Wilcox 8/27/19 11:16

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Sample No.: CMT233456

Project No: 012225

Client Job No: 45678

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 MoistAnalysis 8/8 JW

Pay Item:

Location: Location/Feature

Moisture Content (%) 6.44%

Comments: Comments

Technician:

Digital Signature By User Login

Manager:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/cae307a0-7a81-4bdf-22f7-09f4093f6fc0>

Moisture Content

ASTM: D2216 AASHTO: T-255, T-265

Report Date: 8/27/2019

Date Sampled: 5/18/17

Sampled By: Greg Putnam

Date Tested: 8/8/19

Pit/Plant: South yard

Supplier: Bedrock Gravel and Stone

Material Description: BG&S Untreated Base Course
Type I

Moisture Content and Fines

Reports

[Assignment Summary](#)
[Web-Moisture Content and Fines Report](#)

Moisture & Fines

D2216,T255,T265: Moisture Content

Pan ID:	1
Pan + Wet Weight, W 1 (g):	5,642
Tare + Dry Weight W 2 (g):	4,652
Water Weight, W w =W 1 -W 2 (g):	990
Empty Pan Wt, W c (g):	265
Dry Aggregate Weight, W s =W 2 -W c (g):	4,387
Percent Moisture, 100 (W w /W s) (%):	22.6%

D1140, T11: Material Finer Than 75µm (No. 200) by Washing

Original Dry Weight (Ws above)	4,387
Washed Weight W200R (g)	3,576
Minus #200 Ws-W200R (g)	811
Percent of Materials Finer Than 75µm, 100[1-W 200R /(W 1 -W c)]	33.5%

Pass Fail

Pass

Fail

Eng. Judge

In Progress

Comments

Comments

Manager Signoff

☐ Unsigned

☒ Sign as Jenelle Wilcox



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Moisture Content and Minus #200

ASTM: D2216, D1140 AASHTO: T-255, T-265, T11

Report Date: 3/1/2019

Date Sampled: 3/7/19

Sampled By:

Date Tested: 3/1/19

Pit/Plant: SW Pit

Supplier: Acme Supply

Material Description: TX- Type A HMA Coarse Aggregate

Sample No.: 546

Project No: A6543

Client Job No: D3546

Project/Task/Assn: Highway QA Sample / Place Hot Mix Asphalt (HMA) / A6543 MoistAndFines 3/1 JW

Pay Item:

Location: Location detail

Moisture Content (%) 22.57%

Minus #200 (%) 33.49%

Comments: Comments

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/ddbdf575-f1a4-42a7-a4d8-bfbc8032e2e3>

Gradation Pit Run

Date Sample ReceivedJanuary 26, 2021

TodayClear

Material Source (Select Resource)

Mordor Quarry - Granular Borrow 3" minus

SelectClear

Material Source (If not selected via Resource)Source (If not selected)

Material Description (If not selected via Resource)Description (If not selected)

Sieve Split

Sieve Size	Cu. Weight Retained (g)	Indiv. Wt Retained (g)	Indiv. Wt Retained (g)	Indiv. Retained (%)	Cu. Retained (%)	Cu. Passing (%)*	Spec Min (%)	Spec Max (%)	Pass Fail
▼			0.0	0.0%	0.0%	100.0%	0		
3" ▼			0.0	0.0%	0.0%	100.0%	100	100	Pass
2.5" ▼			0.0	0.0%	0.0%	100.0%			
2" ▼			0.0	0.0%	0.0%	100.0%			
1.5" ▼		293.4	293.4	1.4%	1.4%	98.6%			
1" ▼		3,845.6	3,845.6	18.4%	19.8%	80.2%			
3/4" ▼		1,930.0	1,930.0	9.2%	29.0%	71.0%			
1/2" ▼		2,811.3	2,811.3	13.4%	42.4%	57.6%			
3/8" ▼		1,252.4	1,252.4	6.0%	48.4%	51.6%			
#4 ▼		2,527.9	2,527.9	12.1%	60.5%	39.5%			
Minus #4 Wet	21,229.5		8,568.9	0					
Total Dry Wt.	20,923.8		Moist Corr. Dry -4 Wt.			8,263.2			
▼			0.0	0.0%	0.0%	39.5%			
#10 ▼		68.0	68.0	14.3%	14.3%	33.9%	0	50	Pass
#16 ▼		47.9	47.9	10.0%	24.3%	29.9%			
#40 ▼		117.8	117.8	24.7%	49.0%	20.1%	0	20	Pass
#100 ▼		120.4	120.4	25.3%	74.3%	10.2%			
#200 ▼		48.6	48.6	10.2%	84.5%	6.1%	0	15	Pass
Minus 200(Pan)		6.4	6.4	1.3%	85.8%	5.6%			
Pan Wt.	428.1		74.1	Total -#200 Wet Orig. Wt. Dry Orig. Wt. Water Wt Moisture %					
Wet Wt. + Pan	922.5		494.4						
Dry Wt. + Pan	904.9		476.8						
Washed Wt.	409.1		17.6						
Pan number	a		3.7%						
Check						6.1%			

Pass Fail Eng. Judge

PassFailEng. JudgeIn Progress

Liquid Limit3

Plastic Limit4

Plasticity Index5

Non Plastic?

YesNo

Material ClassAASHTO A-4

Edit List

Remarks

Technician Signoff

Greg Putnam 1/26/21 14:57

Manager Signoff

Greg Putnam 1/26/21 14:57

Include in Summary Report?

YesNo



1/5/2022

Star Fleet Energy
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

Sieve Analysis - Pit Run

ASTM: C-136, C-117

Project No Star-Lab1
Client Reference No 45678
Barcode 1234
Material Source Mordor Quarry - Granular Borrow 3"
minus
Material Description Silty Brown Gravel
Project ZMR Retail Testing
Location Detail There

Date Tested 1/26/2021
Sample Rec. Date 1/26/2021
Date Sampled 3/14/2017
Sampled By Greg Putnam

Sieve Size	Indiv Wt. Retained	Indiv % Retained	Cumulative Percent Retained	Cumulative Percent Passing	Spec Min%	Spec Max%	Pass Fail
3"	0.0	0.0%	0.0	100	100	100	Pass
2.5"	0.0	0.0%	0.0	100			
2"	0.0	0.0%	0.0	100			
1.5"	293.4	1.4%	1.4	99			
1"	3,845.6	18.4%	19.8	80			
3/4"	1,930.0	9.2%	29.0	71			
1/2"	2,811.3	13.4%	42.4	58			
3/8"	1,252.4	6.0%	48.4	52			
#4	2,527.9	12.1%	60.5	39			
Minus #4	8,263.2						
Total Sample Wt	20,923.8						
#10	68.0	14.3%	14.3	34	0	50	Pass
#16	47.9	10.0%	24.3	30			
#40	117.8	24.7%	49.0	20	0	20	Pass
#100	120.4	25.3%	74.3	10			
#200	48.6	10.2%	84.5	6.1	0	15	Pass
Fines Only:			ASTM: D4318				
Wet Original Wt. 494.4			Liquid Limit 3.0				
Dry Original Wt. 476.8			Plastic Limit 4.0				
Washed Wt. 409.1			Plasticity Index 5.0				
- No. 200 Washed Out 67.7							
- No.200 Sieved Out 6.4			ASTM: D2216				
Total - No.200 74.1			Moisture 3.7%				
			= 15.5%				

Remarks Remarks

Technician Greg Putnam

Digital Signature By User Login

Manager Greg Putnam

Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not be reproduced, except in full, without the prior written approval of My Awesome Co.. Lab Address:
5041 Pasadena Hwy#701 Pasadena Texas, 77505

System Link <http://steploc.com/assignments/EA5B547D-0B32-49E1-6BE0-A676BC755FC1>

System Path ZMR Retail Testing / SOILS TESTING AND OBSERVATION / Star-Lab1 SieveCustomSplit Culnd

1/5/2022 9:50:53 AM

1/1

Gradation Standard

Test Date

July 9, 2019

Today

Clear

Sieve Standard

Sieve Size	Accu. Weight Retained (g)	Individual Weight Retained (g)	Accu. Retained (%)	Accu. Passing (%)	Spec Min (%)	Spec Max (%)	Pass Fail
3"		0.0	0.0%	100.0%	100	100	Pass
2-1/2"		0.0	0.0%	100.0%			
2"		0.0	0.0%	100.0%			
1-1/2"		0.0	0.0%	100.0%			
1"		0.0	0.0%	100.0%			
3/4"		0.0	0.0%	100.0%			
1/2"		0.0	0.0%	100.0%			
3/8"	106.0	106.0	5.0%	95.0%			
No. 4	275.9	169.9	12.9%	87.1%			
No. 10	1,229.6	1,229.6	57.4%	42.6%	0	50	Pass
No. 16	1,431.6	202.0	66.9%	33.1%			
No. 40	1,660.6	229.0	77.6%	22.4%	0	20	Fail
No. 100	1,660.6	0.0	77.6%	22.4%			
No. 200	1,966.4	305.8	91.8%	8.2%	0	15	Pass
Pan/-200 SO	2,035.0	68.6	95.0%	5.0%			
Pan Wt	1,000.0	170.8	Total -#200				
Wet Wt + Pan	3,141.1	2,141.1	Wet Orig. Wt:				
Dry Wt + Pan	3,141.1	2,141.1	Dry Orig. Wt:				
Washed Wt.	2,038.9	102.2	-200 Washed Out		Check	8.0%	
Pan number	GK	0.0%	Moisture %				

Gradation Pass Fail

Pass

Fail

Eng. Judge

In Progress

Liquid Limit

1

Plastic Limit

2

Plasticity Index

3

Material Class

AASHTO A-2-6

Edit List

Remarks

My Comments



British Lanolium
Main Shop 2
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

Sample Source

Sample No. Barcode 97

Project No. BR-HWN

Client Reference No. 562355

Project Bedrock DOT Highway Design Build

Pay Item Granular Borrow - Segment 2.3

Location Detail Over Here

Sieve Analysis - Standard

ASTM: C-136, C-117

Report Date 1/5/2022

Date Sampled 9/6/2017

Sampled By Greg Putnam

Date Tested 9/14/2021

Material Source SE Stock Pile

Material Class AASHTO A-2-6

ASTM: D2487

Material Description Silty Brown Gravel

Seive Size	Size MM	Indiv Wt. Retained	Indiv % Retained	CU % Retained	Cu % Passing	Spec Min%	Spec Max%	Pass Fail
3"	76.2					100	100	Pass
2-1/2"	63.5							
2"	50.8							
1-1/2"	38.1							
1"	25.4							
3/4"	19.05							
1/2"	12.7							
3/8"	9.525	106.0	5.0%	5.0%	95%			
No. 4	4.75	169.9	7.9%	12.9%	87%			
No. 10	2	1,229.6	57.4%	57.4%	43%	0	50	Pass
No. 16	1.18	202.0	9.4%	66.9%	33%			
No. 40	0.425	229.0	10.7%	77.6%	22%	0	20	Fail
No. 100	0.15	0.0	0.0%	77.6%	22%			
No. 200	0.075	305.8	14.3%	91.8%	8.2%	0	15	Pass
-200 Pan		68.6	3.2%	95.0%				

Wet Original Wt. 2,141.1

Water Wt 0.0

Dry Original Wt. 2,141.1

ASTM: D2216

Washed Wt. 2,038.9

Moisture % 0.0%

- No. 200 Washed Out 102.2

- No.200 Sieved Out 68.6

Total - No.200 170.8 = 8.0%

Remarks: My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager *Greg Putnam*

Digital Signature By User Login

System Link <http://steploc.com/assignments/B4429095-998C-460C-8A2A-5B30DA4932F1>

System Path Bedrock DOT Highway Design Build / GB Granular Borrow GMP / BDRK-HW SieveStandard 10/16 GP

1/5/2022 10:11:59 AM

Proctor Worksheet

Reports

Assignment Summary

Web-Proctor Worksheet Report

Proctor W/ Curve

Test Date March 22, 2018

Today

Clear

Proctor Test Procedure

AASHTO T-99

AASHTO T-180

ASTM D1557

ASTM D698

Method

A

B

C

D

Sample Preparation Method

Wet

Dry

Type of Rammer Face:

Sector Face

2" Round

Type of Compaction Rammer

Used

Manual

Automatic

Proctor Data

Laboratory Determination of Moisture -
Density Relationship (Proctor Curve)

Test Point	1	2	3	4	5	6
Water Added (%)						
Wet Mass of Compact Specimen + Mold (gr)	9,943	10,088	10,243	10,123		
Mass of Mold (gr)	5,702	5,702	5,702	5,702		
Weight of Molded Specimen (gr)	4,241	4,386	4,541	4,421	0	0
Mold Volume (cf)	0.075	0.075	0.075	0.075		
Wet Density (pcf)	124.7	128.9	133.5	130.0	0	0
Tare #	A	A	A	A		
Tare Mass (gr)	153.6	155.8	155.7	155.6		
Wet Mass of Compacted Sample + Tare (gr)	656.2	656.3	656.6	656.5		
Dry Mass of Compacted Sample + Tare (gr)	633.6	626.4	616.4	607.2		
Mass of Water (gr)	22.6	29.9	40.2	49.3	0.0	0.0
Mass of Dry Sample (gr)	480.0	470.6	460.7	451.6	0.0	0.0
Moisture Content (%)	4.7%	6.4%	8.7%	10.9%	0%	0%
Dry Density (pcf)	119.1	121.2	122.8	117.2	0.0	0.0
Use This Point ?	Yes ▼	Yes ▼	Yes ▼	Yes ▼	▼	▼

Curve X Axis Minimum

4

Curve X Axis Maximum

12

Curve Y Axis Minimum

116

Curve Y Axis Maximum

124

Apply Oversized Aggregate

Yes

No

Corrections?

+3/4

13.4

+3/8

5.1

+#4 (% Retained)

6.6

Minus #4 (% Retained)

74.9

Specific Gravity Source

Lab Tested

Assumed

Client Provided

Spec Grav Calc Grid

Soil Bulk Specific Gravity Calculation
ASTM C-127

Dry Weight: 2,581.1

Immersed Weight: 1,609.4

SSD Weight: 2,633.2

Bulk Specific Gravity: 2.521

Absorption %: 2.019

Pan Name

Rock Bulk Spec Gravity (Gm)

Rock Absorption (Ac) (%)

1

Zero Voids Dry Density 1

124

Zero Voids Dry Density 2

117

Enter Max Dry Density from

Report

Enter Optimum Moisture from

Report

Comments

My Comments



10/27/2021

Star Fleet Energy
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

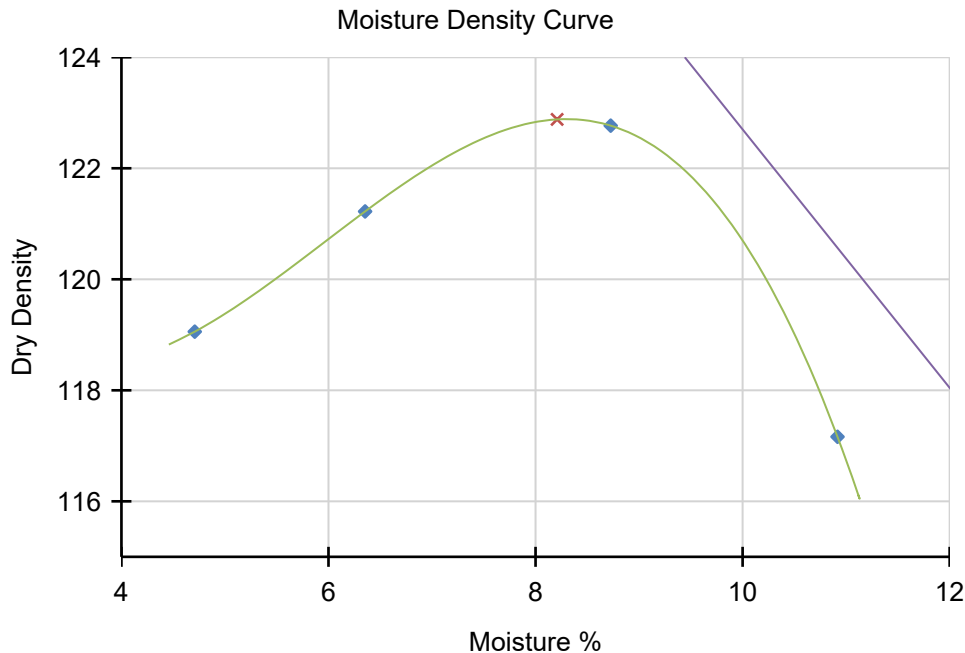
Project No Star-Lab1
Client Reference No 45678
Sample ID/Barcode CMM050319A
Material Criteria Bluffdale Base Course
Material Source BG&S Open Graded Base Course
Material Description Material Desc. From Resc
Project ZMR Retail Testing
Location Detail Location/Feature

Date Sampled 5/18/2017
Date Tested 4/21/2018
Sampled By Greg Putnam

Test Standard ASTM D1557
Compaction Method C
Rock Correction No
Rock Replacement No
Rock Specific Gravity 2.643
Specific Gravity Determination Lab Tested
Method of Sample Preparation Used Wet
Type of Compaction Rammer Used Automatic
Type of Rammer Face 2" Round
Optimum Moisture 8.2
Maximum Dry Dens 122.9

Sieve Analysis

Sieve Size	%Retained
+3/4"	13.4
+3/8"	5.1
+#4	6.6
Minus #4	74.9
Total	100.0



◆ Raw Data Pt ✕ Max Pt — Uncorrected Dry Density — Zero Void

Tested By Greg Putnam

Manager Ron Reagan

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of My Awesome Co. Inc..

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505

System Link <http://steploc.com/assignments/EF1D6608-B2D7-4C77-FCE2-324449460A31>

System Path ZMR Retail Testing / SOILS TESTING AND OBSERVATION / Star-Lab1 Proctor 7/31 GP

Angle of Internal Friction

Test Date	February 08, 2019	Today	Clear
Angle of Internal Friction (°)	90		
Pass Fail Eng. Judge	Pass	Fail	Eng. Judge
Remarks	Remarks		



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Angle of Internal Friction

AASHTO:???

Report Date: 2/26/2019

Date Tested: 2/26/19

Pit/Plant: North Pit

Material Description: BG&S - Select Backfill MSE

Sample No.: CMT233456

Project No.: Star-Lab1

Client Job No: 45678

Project/Task/Assn: ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / Star-Lab1 MSEAngleInternalFric 2/8 JW

Pay Item:

Location: Location/Feature

Angle of Internal Friction (°)

90

Comments: Remarks

Inspector: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/1394c638-b4b3-49ce-7686-983b88256082>

Coarse Aggregate Specific Gravity

Reports

Assignment Summary

Web-Soils - Coarse Agg Specific Gravity

Print-Coarse Agg Specific Gravity Report

Specific Gravity WkSheet

Coarse Aggregate Specific Gravity

Dry Weight - A	1000
SSD Weight - B	1105
Immersed Weight - C	600
Bulk Specific Gravity = $A/(B-C)$	1.980
Bulk Specific Gravity @SSD = $B/(B-C)$	2.188
Apparent Specific Gravity = $A/(A-C)$	2.500
Absorption % = $((B-A)/A) * 100$	10.50

Test Date February 14, 2019

Today

Clear

Remarks My Comments

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Sample No.: CMT233456
Project No: 012225
Client Job No: 45678
Project: ZMR Lab Testing and Inspection
Pay Item:
Location: Location/Feature

Coarse Aggregate Specific Gravity

ASTM C-127

Report Date: 8/27/2019

Date Tested: 1/24/2018

Pit/Plant: South yard

Material Description: BG&S Untreated Base Course
Type I

Bulk Specific Gravity:	1.980
Bulk Specific Gravity @SSD:	2.188
Apparent Specific Gravity:	2.500
Absorption %:	10.50

Comments: My Comments

Technician: *Greg Putnam*

Digital Signature By User Login

Manager:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/baf449de-47ef-430e-57d3-8497915f35fe>

Path:Task/Form SOILS TESTING AND OBSERVATION / Material Sample for Lab Tests GMP / Star-Lab1 Course Agg SpecGrav 1/24 GP

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

1/5/2022

Fine Aggregate Specific Gravity

Test Date

January 3, 2022

Today

Clear

Date Sample Received

January 3, 2022

Today

Clear

Test Method Standard

ASTM

AASHTO

Edit List

Specific Gravity WkSheet

Fine Aggregate Specific Gravity

Dry Weight	390.7
SSD Weight	403.4
SSD Weight W/Pycnometer	1,608.5
Pycnometer W/Water	1,351.9
Bulk Specific Gravity	2.661
Bulk Specific Gravity @SSD	2.748
Apparent Specific Gravity	2.913
Absorption %	3.3

Remarks

Remarks

Include in Summary Report?

Yes

No


ACME
 WIDGETS LTD.

1/5/2022

Fine Aggregate Specific Gravity

ASTM C-128

Client Star Fleet Energy
Address Main Shop 2
 5041 Pasadena Hwy
 #701
 Pasadena Texas, 77505
Project No Star-Lab1**Client Reference No** 45678**Material Source** BG&S Open Graded Base Course**Material Description** Material Desc. From Resc**Project** ZMR Retail Testing**Location Detail** Location/Feature**Date Tested** 1/3/2022**Sample Rec. Date** 1/3/2022**Date Sampled** 5/18/2017**Sampled By** Greg Putnam**Bulk Specific Gravity (OD)** 2.661**Bulk Specific Gravity (SSD)** 2.748**Apparent Specific Gravity** 2.913**Absorption %** 3.3**Remarks** Remarks**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of the agency.

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505**System Link** <http://steploc.com/assignments/27BA62E9-BD5A-4BAC-8142-001EDABF07D0>**System Path** ZMR Retail Testing / SOILS TESTING AND OBSERVATION / Star-Lab1 FineAggSpecGrav GP220103-1

1/5/2022 10:48:08 AM

Concrete Placement Advanced with MD Inspection

Date of Pour: February 16, 2017 Today Clear

Location Map Marker: Here Map Clear

Placement Location: Here

Test Method Standard: ASTM AASHTO

Contractor: Star Fleet Construction Select Clear

Pay Item: Search or browse

Mix Source - Design No.: West Pt AA(AE) 4000-C3361N59 Select Clear

Conc Acceptance Criteria: UDOT PCC Select Clear

Requirement Summary: UDOT - SLUMP, AIR, TEMP, STRENGTH Freq. - 1/50CY; W/C <= Design

Pour Required PSI: 3500

Install Method: Agitated via Chute

No	Truck No	Ticket No	Yds/ load	Tot Yds Cum	Slump (in)	Air (%)	Temp Conc	Temp Air	Water Added (gal)	Batch Time hh:mm	Pour Time hh:mm	Age Min	# Cyls SetID	Deficiency
1	347	D3654	10	10	1.5	4.8	78	79	0	10:25	11:03	38	6	
2	356	F4657	19	29	3	5.9	65	85	1	12:26	14:55	149	4	Def-Allow
3	347	S3654	8	37	2.25	6.4	65	70	2	8:25	10:45	140	2	Reject
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Total Cys:			37		3	3	3			Count of Cyl Sets:			3	1

Total Yards in Pour	10
Slump Test Count	3
Slump Fail Count	5
Air Test Count	3
Air Fail Count	9
Temp Count	3
Cyl Set Count	3
Trucks Deficient-Allowed	1

MIX/MTLS DOCUMENTED •
 Source/supplier verified • Mix Design
 Approved • Adequate lab test samples taken
 for concrete strength and Aggregate
 gradation • Surface evaporation Plan •
 Hot/Cold weather plan

Mix/Mtls Documentation	Accept	Report	NA
Acceptable?			

Mix/Mtls Documentation

Remarks

Concrete mix was NOT approved.

No Surface evaporation Plan was submitted.

Source/Supplier was not approved.

No Hot/Cold weather plan was submitted.

Inadequate lab test samples taken for concrete strength
and Aggregate gradation.See attached Issue Resolution (RD, NCR, RFI, FDC, CO
etc.)

SUBGRADE • Subgrade acceptable type
 and properly compacted • Not too dry • Not
 frozen

Subgrade Acceptable?

Accept

Report

NA

Subgrade Remarks

Foundation/subgrade material was NOT of acceptable type
and properly compacted.Excessively cold or frozen surfaces were NOT warmed or
removed to avoid freezing the concrete.Excessively dry subgrade was NOT sprinkled with water to
add moisture for proper curing.See attached Issue Resolution (RD, NCR, RFI, FDC, CO
etc.)Excessively hot surfaces were NOT cooled prior to
placement.Excessively dry subgrade was NOT sprinkled with water to
add moisture for proper curing.; See attached Issue
Resolution (RD, NCR, RFI, FDC, CO etc.); asdfgarfhaerh

INTERFACE WITH EXISTING CONCRETE

- Properly Cured, Cleaned and Surface Prepped
- Not excessively hot/cold

Interface Acceptable?

Accept

Report

NA

Interface Remarks

Interface to existing concrete were NOT properly reinforced, cured, cleaned and surface prepped.

Excessively cold or frozen surfaces were NOT warmed or removed to avoid freezing the concrete.

Excessively hot surfaces were NOT cooled prior to placement.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excessively hot surfaces were NOT cooled prior to placement.;

FORMWORK • Proper Materials • Bracing sufficient to retain shape and position • Size and dimensions per plan • clean and free of debris • Oiled for release

Formwork Acceptable?

Accept

Report

NA

Formwork Remarks

Formwork was NOT properly braced.

Formwork was NOT properly cleaned and oiled for release.

Formwork was NOT the correct size per plan.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Samples submitted for testing • Coating repaired • Number and placement per plan • Tied and Spliced per spec • Cover • Bar supports spacing and number to hold bar to move

Reinforcing Acceptable?

Accept

Report

NA

Reinforcing Remarks

Expansion Joints were NOT acceptable. Rebar tying splicing and overlapping was NOT per plan and spec.
Rebar was NOT approved. Cover provided for rebar was NOT per plan.
Some Rebar Mfg. Certifications and submittals are missing. Rebar supports were NOT acceptable.
Rebar coating is missing or damaged. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)
Number and placement of rebar was NOT per Plan.
Rebar coating is missing or damaged.;

PLACEMENT EQUIPMENT • Delivery truck
• delivered within time constraint • Agitated

Equipment Acceptable?

Accept	Report	NA
--------	--------	----

Equipment Remarks

Insufficient samples and cylinders were taken to meet requirements. Required Air Slump and Temperature tests were NOT performed.
Concrete was NOT Delivered and placed within the required time constraints Water Cement Ratio was NOT within requirements.
Concrete was NOT properly mixed and agitated. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)
Concrete did NOT have acceptable plastic flow, uniformity and workability characteristics.

PLACEMENT METHOD • Continuous • No interruption > 45 min • Placed near final destination • Avoided lateral movement via vibration • Temperature and Weather • No standing water

Placement Method

Acceptable?

Accept	Report	NA
--------	--------	----

Placement Method Remarks

Material was NOT placed as near as possible to the final position, causing excessive lateral movement via vibration.

Standing water was present, required mix modifications were verified, proper placement technique via pump or tremie was used.

Placement was NOT continuous and without interruption of greater than 45 minutes.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Ambient temperatures were NOT within acceptable limits to avoid freezing or excessive heat.

CONSOLIDATION METHOD • Proper Equipment, checked for effectiveness • Sufficient number of vibrators • Immediately after placement

Consolidation Acceptable?

Accept

Report

NA

Consolidation Remarks

Concrete was NOT properly consolidated with hand-held power vibrators.

Mud was consolidated with paving machine vibrators.

Consolidation efforts were TOO LATE to provide adequate consolidation.

Slip Form Auto-vibration NOT working.

Vibrators were checked and found to be ineffective.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

TOO FEW vibrators were available to provide adequate consolidation.

SURFACE FINISH • Properly Finished in a timely manner • Control Joints properly created per plan

Finish Acceptable?

Accept

Report

NA

Finish Remarks

Smooth trowel finish was applied.

Finish was NOT properly applied.

Traction finish was applied.

Crack control joints were NOT created per plan.

Broom Finish was applied.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

CURING • Timely application • Method appropriate for conditions • Proper application technique • Traffic protection in place

Curing Acceptable?

Accept

Report

NA

Curing Remarks

Curing methods were NOT implemented in a timely manner following finishing operations.

Measures were NOT taken to avoid loading prior to initial cure.

Chemical cure agent was NOT properly applied.

Insulation was placed to avoid freezing due to anticipated cold weather.

Chemicals were NOT applied per manufacturers recommendations.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Exposed concrete was covered by waterproof membrane to avoid excessive evaporation.

TEST CYLINDER CURE • Proper On-site storage w/ temperature control and time to allow initial Set • Temperature monitors in place

Test Cylinder Cure

Acceptable?

Accept

Report

NA

Test Cylinder Cure Remarks

Strength Cylinders were NOT properly stored onsite in temperature controlled container for a minimum of (??) Hrs prior to transport to Lab.

Temperature monitors were NOT installed to cover all cylinders.

Strength Cylinders stored onsite in cooler for a minimum of (??) Hrs prior to transport to Lab.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

(##) field cures were stored on site.

General Comments

My Comments

Weather

Clear w/ Wind

Temperature

Warm 65 - 80

Inspection Duration (Hours)

4

Acceptance Decision

Pass

Fail

Eng. Judge

In Progress

Inspector Certification

Crockett SRDT #63457

Select

Clear

Reviewer Certification

Bilbo ACI CTT #6579

Select

Clear



Concrete Placement Inspection and Check List

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date:

Project No: Star-Lab1

Client Project No: 45678

Crew Foreman: Star Fleet Construction

Project/Task/Assn: ZMR Lab Testing and Inspection / REINFORCED CONCRETE / KG5467 ConcPlaceTrkLog GP 2/18

Pay Item:

Concrete Mix:

Location: Here

Spec Summary: UDOT - SLUMP, AIR, TEMP, STRENGTH Freq. - 1/50CY; W/C <= Design

Area of Concern	Accept Report	Comments
MIX/MTLS DOCUMENTED • Source/supplier verified • Mix Design Approved • Adequate lab test samples taken for concrete strength and Aggregate gradation • Surface evaporation Plan • Hot/Cold weather plan	Accept	
SUBGRADE • Subgrade acceptable type and properly compacted • Not too dry • Not frozen	Report	Excessively dry subgrade was NOT sprinkled with water to add moisture for proper curing.; See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.); asdfgarfhaerh
INTERFACE WITH EXISTING CONCRETE • Properly Cured, Cleaned and Surface Prepped • Not excessively hot/cold	Report	Excessively hot surfaces were NOT cooled prior to placement.;
FORMWORK • Proper Materials • Bracing sufficient to retain shape and position • Size and dimensions per plan • clean and free of debris • Oiled for release	Accept	
REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Samples submitted for testing • Coating repaired • Number and placement per plan • Tied and Spliced per spec • Cover • Bar supports spacing and number to hold bar to move	Report	Rebar coating is missing or damaged.;
PLACEMENT EQUIPMENT • Delivery truck • delivered within time constraint • Agitated	Accept	
PLACEMENT METHOD • Continuous • No interruption > 45 min • Placed near final destination • Avoided lateral movement via vibration • Temperature and Weather • No standing water	Accept	
CONSOLIDATION METHOD • Proper Equipment, checked for effectiveness • Sufficient number of vibrators • Immediately after placement	Accept	
SURFACE FINISH • Properly Finished in a timely manner • Control Joints properly created per plan	Accept	
CURING • Timely application • Method appropriate for conditions • Proper application technique • Traffic protection in place	NA	
TEST CYLINDER CURE • Proper On-site storage w/ temperature control and time to allow initial Set • Temperature monitors in place	Accept	

Weather: Clear w/ Wind

Temperature: Warm 65 - 80

Quantity Installed: 10

Install Method: Agitated via Chute

General Comments My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/980f871a-995c-4c10-efc2-aacb876dfe18>

Manager: *Greg Putnam*

Digital Signature By User Login

Inspection Duration (Hours): 4

Acceptance Decision: Pass



CONCRETE POUR SUMMARY

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Date of Pour: 2/15/17
Air Test Count: 3
Slump Test Count: 3
Mix No: C3361N59
Deficient Count: 1
Total Yds in Pour: 10
Cyl Set Count: 3

Report Date: 5/14/2019
Project No. Star-Lab1
Client Ref No: 45678
Supplier: Acme Supply
Plant:
Placement Method: Agitated via Chute
Mix Specified PSI:
Pour Required PSI: 3,500

Contractor: Star Fleet Construction
Pay Item:

Location: Here

Project/Task/Assn: ZMR Lab Testing and Inspection / REINFORCED CONCRETE / KG5467 ConcPlaceTrkLog GP 2/18

Log No	Truck No	Ticket No	Tot Yds load	Tot Yds Cml	Slump (in)	Air (%)	Temp Conc	Temp Air	Water Added (gal)	Batch Time hh:mm	Pour Time hh:mm	Age Min	# Cylinders Cast	Deficiency Allowed or Rejected
1	347	D3654	10	10	1.5	4.8	78	79	0	9:25	10:03	38	6	
2	356	F4657	19	29	3	5.9	65	85	1	12:26	14:55	149	4	Def-Allow
3	347	S3654	8	37	2.25	6.4	65	70	2	8:25	10:45	140	2	Reject
4												0		
5												0		
6												0		
7												0		
8												0		
9												0		
10												0		
11												0		
12												0		
13												0		
14												0		
15												0		
16												0		
17												0		
18												0		
19												0		
20												0		

Remarks:

Technician: *Greg Putnam*
Digital Signature By User Login

Manager: *Greg Putnam*
Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/980f871a-995c-4c10-efc2-aacb876dfe18>

Concrete Tests (One or More Cylinder Sets)

Enter Pour information on this form. Then add a "New Sub-Assignment" (Above) for each Test/Cylinder Sample Set.

Pour Date	October 1, 2018		Today	Clear
Pour Structure	Building 2			
Pour Type	Foundation ▼			
General Placement Location	Column at Grid G12			
Contractor	Staker			
Pay Item (Select If Setup)	Search or browse ▼			
Pay Item PO WO	A5460			
Spec Strength(psi)	650			
Test Method Standard	ASTM AASHTO			
Mix Design (Select Resource)	My Mix Select Clear			
Supplier (If No Mix Design Resc.)	Star Fleet Construction Select Clear			
Plant (If No Mix Design Resc.)	Text Plant			
Mix Design No (If No Mix Design Resc.)	Text Mix Design No			
Bag Mix (If No Mix Design Resc.)	Text Bag Mix			
Cement Type (If No Mix Design Resc.)	Text Cement Type			

Air Admix?	Yes	No
Other Admix?	Yes	No
Pozzolan?	Yes	No
Hot Water?	Yes	No
NaCl?	Yes	No
Cylinder Field Storage - How & Where	Cooler	
Lab Facility	My Awesome Co. SLC Lab Select Clear	
Install Method	Agitated via Chute ▼	
Total Yards in Pour	21	
Remarks	My Comments	

Sample Cylinder Set

Reports

[Assignment Summary](#)
[Web-Concrete Strength Report](#)
[Prmt-Conc Base Multi](#)
[Print Labels](#)
[Prmt-Concrete Flex Strength](#)
[Web-Concrete Flex Strength Report](#)

IMPORTANT!! - This assignment generates a **SAMPLE** that is started in the field and Completed in the LAB. Field personnel should mark Progress above to **STARTED**. Lab Personnel will mark it Complete once the sample is **RECEIVED** and processed at the lab.

Test Date Time	October 1, 2018 08:21	Now	Clear
Sample Barcode	9945		
Specific location of this Test/Sample	Location of this test		
Truck Number	7847		
Ticket Number	8376		
Yards in Load	76		
Accumulated Yards	87		
Slump (in)	6		
Is this a Spread?	☒ Yes ☐ No		
Air (%)	56		
Concrete Temperature	43		
Air Temperature	76		
Water Added (gal)	4		
Unit Weight	6		

Batch Age Calculation (24Hr,

ie. 15:24)

Batch Time hh:mm	Pour Time hh:mm	Age Min
10:00	11:00	60

Sample Collection Source

Truck

If the cylinder set configuration you need doesn't exist, you can always create Cylinder Breaks by selecting "New Sub-Assignment" see top of Form. Field Cures will always be created this way. Be sure to identify which Cure Break records are Field Cures.

Cure Break Criteria - Defines

4X8 7,28,28,28

which Cure Item Records are

[Select](#)[Clear](#)

created below

Create Break Sub-Records - Push only ONCE!! (<<See Tree View)

Average 28 day Strength 2929

Data For Other Trucks

Truck No	Ticket No	Yds/ load	Tot Yds Cum	Slump (in)	Air (%)	Temp Conc	Location/Remark
5465	84587	3	3	2	5	75	Location Remark
6584	65477	4	7	1	10	65	Second Location Remark
8554	65484	5	12	5	6	55	Third Location Remark
9885	98458	2	14	4	4	50	Fourth Location Remark

Lab Where Cylinders were

My Awesome Co. SLC Lab

Received(Entered by Lab)

[Select](#)[Clear](#)

Sample Cylinder – Cure and Break

Reports

Assignment Summary	Web-Interim Break Rpt - w/ResoFull Insp & Truck Log	Web-Interim Break Rpt - w/ResoMulti Cyl Sets/No Truck Log
Pmt-Conc Base Multi Break	Pmt-Conc Strength Interim Full DOT	

An Interim Strength report will be Auto-Distributed when a Cure Sample Break is approved. When the final cure sample(s) are broken, the Final strength report will be queued for approval (See Parent).

Cast Date	November 27, 2018 00:20	Now	Clear
Date in Cure Room	November 28, 2018 09:30	Now	Clear
Field Cure?	☒ Yes ☐ No		
Cure Age (Days)	28		
Break Date	Dec 25, 2018		
Cyl Diameter(in)	4		
Specimen Height/Depth (in)	6		
Cube/Box/Prism Width (in)	6.1		
Cube/Box/Prism Length/Span (in)	18		
Max Load (Lbs)	10540		
Strength (PSI)	839		
Fracture Type	A/1		
Pad Type	Neoprene		
Broken by	Jenelle Wilcox	Select	Clear



10/27/2021

Star Fleet Energy
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

Concrete Compressive Strength

AASHTO: T119, T152, T23, T22, T121, T309, T141

Project No Star-Lab1
Client Reference No 45678
Concrete Supplier Acme Supply
Plant Plant #2
Type Cement III
Project ZMR Retail Testing
Test Location Location of this test
Pour Location Column at Grid G12
Pour Structure Building 2
Set Id-Barcode 9943
Specified PSI 3,500
Place Method Agitated via Chute
Total Yds in Pour 21.0
Ticket No G2543
Truck No 34
Field Storage Cooler

Date Tested 10/1/2018
Pour Date 10/1/2018
Contractor Staker
Bag Mix 7
Mix No C3361N44
Enviromental Cond Cold 32 - 45
Pour Type Foundation Stem Wall
Air Admix No
Admixture Yes
Pozzolan No
Hot Water No
NaCl Yes
Yds in Load 9.3
Accum Yds 18.0

Air Content (%) 4.6
Slump 2.50
Concrete Temp F° 56
Air Temp F° 78
Added Water (gal) 3.0
Unit Weight (lb/ft3) 149.3
Age Min 50.0

ID	Date Broken	Age in Days	Measured Avg Dia	Area (in2)	Load (lbs)	Strength PSI / MPA	% of SPEC.	Cylinder EndCap	Break Type	Broken By
A-9943	10/2/2018	1 (12Hr)	4.00	12.57	23,786	1,890 13.0	54.1	Neoprene	B/2	Frodo Bagins
B-9943	10/4/2018	3 (36Hr)	4.00	12.57	29,476	2,340 16.2	67.0	Neoprene	A/1	Frodo Bagins
C-9943	10/8/2018	7 (FC)	4.00	12.57	42,890	3,410 23.5	97.5	Neoprene	B/2	Margaret Houlihan
D-9943	10/29/2018	28	4.00	12.57	48,096	3,830 26.4	109.3	Neoprene	C/-	Doctor Spock
E-9943	10/29/2018	28	4.00	12.57	48,560	3,860 26.6	110.4	Neoprene	A/1	Mark Twain
F-9943	10/29/2018	28	4.00	12.57	51,328	4,080 28.2	116.7	Neoprene	B/2	James Kirk

FC = Field Cure **Average 28 Day Strength** 3,923

Break Type A/1 Cone/Cone; B/2 Cone Split/Cone Vertical; C/- Cone Shear/NA; D/4 Shear/Diagonal; E/3 Columnar/Columnar; -/5 NA/Edge
AASHTO/ASTM Fracture; -/6 NA/Two Edge Fracture. Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231

Remarks Specific location

Inspector Mark Twain
Digital Signature By User Login

Manager Greg Putnam
Manager
Digital Signature By User Login

Supplemental Truck Data

Truck No	Ticket No	Total Yds Load	Total Yds Cum	Slump (in)	Air (%)	Temp Conc	Location Remark Set Info
34	D2354	9.0	9.0	2.25	4.6	89	My Location infomaton
65	D5467	9.0	18.0	1.70	5.7	76	Other Locations
87	D48675	9.0	27.0	3.90	4.9	98	Over There
68	D5323	9.0	36.0	3.60	7.0	97	More location Info

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of My Awesome Co. Inc..

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505

System Link <http://steploc.com/assignments/B87253EB-BEEC-4CB2-A73E-34E7ECA0C28B>

System Path ZMR Retail Testing / REINFORCED CONCRETE / Star-Lab1 ConcTestSet 10/1 GP



FLEXURAL STRENGTH TEST

AASHTO: T119, T152, T23, T22, T121, T309, T141

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 2/27/2019
Project No: Star-Lab1
Client Project No: 45678

Project: ZMR Lab Testing and Inspection
Contractor: Staker
Pay Item: A5460
Pour Structure: Building 2
Pour Type: Foundation
Pour Location: Column at Grid G12

Cast Date:	10/1/18	Placement Method:	Agitated via Chute	Air Content:	56.0
Set Id-Barcode:	123	Concrete Supplier:	Star Fleet Construction	Slump:	6.00
Specified PSI:	650	Plant:		Concrete Temp F°:	43
Bag Mix:	Test Bag Mix	Admixture:	No	Air Temp F°:	76
Mix No:	Test Mix Design No	Pozzolan:	Yes	Hot Water:	No
Type Cement:	Test Cement Type	Yds in Load:	76	NaCl:	Yes
Ticket No:	8376	Accum. Yds:	87	Added Water(gal):	4.0
Truck No:	7847	Total Yds in Pour:	21	Unit Weight:	6
Field Storage:	CMT Lab			Age Min:	60

DATE BROKEN	AGE in Days	WIDTH (in)	DEPTH (in)	SPAN (in)	LOAD (lbs)	STRENGTH PSI / MPA		% of SPEC.	BROKEN BY
12/25/2018	28 FC	6.10	6.00	18.00	10540	864	6.0	132.9	Jenelle Wilcox
12/25/2018	28 FC	6.07	5.94	18.00	9930	835	6.0	128.5	Jenelle Wilcox
12/25/2018	28 FC	6.11	5.89	18.00	10040	853	6.0	131.2	Jenelle Wilcox

FC = Field Cure Average 28 day Strength (psi): 851.0

Remarks: My Comments

Technician: *Jenelle Wilcox*
 Digital Signature By User Login

Manager: *Jenelle Wilcox*
 Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/28140c16-505d-468d-455f-d19c88289404>

Path:Task/Form REINFORCED CONCRETE / 012345 ConcTestsOnly(Multi) 1/11 JW / Star-Lab1 ConcTestSet 1/23 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



WET CONCRETE COMPRESSIVE STRENGTH

ASTM: C143, C231, C31, C39, C138, C1064, C172

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 8/27/2019
Project No: 012225
Client Project No: 45678

Project: ZMR Lab Testing and Inspection
Pay Item: A5460
Pour Structure: Building 2
Pour Type: Foundation
Placement Location: Column at Grid G12
Test Location: Location of this test

Contractor: Staker

Cast Date:	10/1/18	Placement Method:	Agitated via Chute	Air Content (%):	56.0
Set Id-Barcode:	9945	Concrete Supplier:	Star Fleet Construction	Slump (in):	6.00
Specified PSI:	650	Plant:	My Mix Plant	Concrete Temp F°:	43
Bag Mix:	125	Air Admix:	Yes	Air Temp F°:	76
Mix No:	My Mix Design No	Admixture:	No	Hot Water:	No
Type Cement:	A type of Cement	Pozzolan:	Yes	CaCl:	Yes
Ticket No:	8376	Yds in Load:	76	Added Water (gal):	4.0
Truck No:	7847	Accum. Yds:	87	Unit Weight (lbs/ft3):	6
Field Storage:	Cooler	Total Yds in Pour:	21	Age Min:	60

DATE BROKEN	AGE in Days	Measured Avg Dia	AREA (in2)	LOAD (lbs)	STRENGTH PSI / MPA		% of SPEC.	Cylinder End Prep	BREAK TYPE	BROKEN BY
11/13/2018	7 FC	0	0.00	54890	Infinity	0.00	0.0	Neoprene	B/2	Margaret Houlihan
12/25/2018	28 FC	4.00	12.57	10540	840	5.79	129.2	Neoprene	A/1	Jenelle Wilcox
11/14/2018	28	4.00	12.57	51328	4090	28.20	629.2	Neoprene	B/2	James Kirk
10/29/2018	28	4.00	12.57	48560	3860	26.61	593.8	Neoprene	A/1	Mark Twain
11/14/2018	7 FC	4.00	12.57		0	0	0	Neoprene		Daffy Duck
11/14/2018	5 FC	4.00	12.57	5465	440	3.03	67.7	Neoprene	A/1	Daffy Duck
11/26/2018	6 FC	4.00	12.57		0	0	0	Neoprene		

FC = Field Cure Average 28 day Strength (psi): 2,930

Break Type A/1 Cone/Cone; B/2 Cone Split/Cone Vertical; C/- Cone Shear/NA; D/4 Shear/Diagonal; E/3 Columnar/Columnar; -/5 NA/Edge Fracture;
AASHTO/ASTM: -/6 NA/Two Edge Fracture. Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231

Remarks: My Comments

Technician: *Greg Putnam*
Digital Signature By User Login

Manager: *Jenelle Wilcox*
Digital Signature By User Login

Supplemental Truck Data

Truck No	Ticket No	Tot Yds load	Tot Yds Cml	Slump (in)	Air (%)	Temp Conc	Location Remark Set Info
5465	84587	3	3	2	5.0	75	Location Remark
6584	65477	4	7	1	10.0	65	Second Location Remark
8554	65484	5	12	5	6.0	55	Third Location Remark
9885	98458	2	14	4	4.0	50	Fourth Location Remark

Lab Address: 2760 W. 3100 S. Salt Lake City, Ut 84119

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



WET CONCRETE COMPRESSIVE STRENGTH

ASTM: C143, C231, C31, C39, C138, C1064, C172

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 8/27/2019
Project No: 012225
Client Project No: 45678

Project: ZMR Lab Testing and Inspection
Contractor: Staker
Pay Item: A5460
Placement Location: Column at Grid G12
Test Station:

Offset: 0

Cast Date:	10/1/18	Ticket No:	8,376	Air Content (%):	56.0
Set Id-Barcode:	9945	Concrete Supplier:	Star Fleet Construction	Slump (in):	6.00
Specified PSI:	650	Plant:	My Mix Plant	Concrete Temp F°:	43
Bag Mix:	125	Air Admix:	Yes	Air Temp F°:	76
Mix No:	My Mix Design No	Admixture:	No	Hot Water:	No
Type Cement:	A type of Cement	Pozzolan:	Yes	CaCl:	Yes
Cement (Lbs):		Yds in Load:	76	Added Water (gal):	4.0
		Accum. Yds:	87	Unit Weight (lbs/ft3):	6
Fly Ash (Lbs):				Truck No:	7847
Placement Method:	Agitated via Chute	Total Yds in Pour:	21	Age Min:	60
Field Storage:	Cooler				

DATE BROKEN	AGE in Days	Measured Avg Dia	AREA (in2)	LOAD (lbs)	STRENGTH PSI / MPA		% of SPEC.	Cylinder End Prep	BREAK TYPE	BROKEN BY
11/13/2018	7 FC	0	0.00	54890	Infinity	0.0	0.0	Neoprene	B/2	Margaret Houlihan
12/25/2018	28 FC	4.00	12.57	10540	840	5.8	129.2	Neoprene	A/1	Jenelle Wilcox
11/14/2018	28	4.00	12.57	51328	4090	28.2	629.2	Neoprene	B/2	James Kirk
10/29/2018	28	4.00	12.57	48560	3860	26.6	593.8	Neoprene	A/1	Mark Twain
11/14/2018	7 FC	4.00	12.57		0	0	0	Neoprene		Daffy Duck
11/14/2018	5 FC	4.00	12.57	5465	440	3.0	67.7	Neoprene	A/1	Daffy Duck
11/26/2018	6 FC	4.00	12.57		0	0	0	Neoprene		

FC = Field Cure Average 28 day Strength (psi): 2,930

Break Type A/1 Cone/Cone; B/2 Cone Split/Cone Vertical; C/- Cone Shear/NA; D/4 Shear/Diagonal; E/3 Columnar/Columnar; -/5 NA/Edge Fracture; -/6 NA/Two Edge Fracture. Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231

Remarks: My Comments

Full Inspection Sample Cylinder Set

Reports

[Assignment Summary](#)
[Web-Concrete Strength Report \(W/MD\)](#)
[Print-Concrete Str W M D](#)
[Print Labels](#)

IMPORTANT!! - This assignment generates a **SAMPLE** that is started in the field and Completed in the LAB. Field personnel should mark Progress above to **STARTED**. Lab Personnel will mark it Complete once the sample is **RECEIVED** and processed at the lab

This Concrete Strength Report's **PROGRESS** should be marked **COMPLETE** when samples enter the cure room. This assignment should appear in the "Concrete Strength Tests to Be Approved" list when all Cure Samples have a strength value.

Sample Date Time: February 18, 2017 12:48 [Now](#) [Clear](#)

Sample Barcode: 2343

Truck Log Row: 1

Split Sample ID: 34567

Cure Break Criteria: [4X8-3,5,7,28,28,28](#) [Select](#) [Clear](#)

Create Break Sub-Records - Push only ONCE!! (<<See Tree View)

Cement (Lbs): 457

Fly Ash (Lbs): 148

Total Cement Material: 605

Batch Water (Lbs): 235

Free Water (Lbs): 20

Allowable Added Water (gals): 2

Water Added (gals): 6

Total Water (Lbs): 305

Actual W/C Ratio: 0.5

Design W/C Ratio: 0.45

Unit Weight: 146.8

Sample Type: Rand Ind ▼

Sample Source: Pump ▼

Air Admix? [Yes](#) [No](#)

Other Admix? [Yes](#) [No](#)

Hot Water Used? [Yes](#) [No](#)

Yards in Load: 21

Accumulated Yards: 96

Field Storage: Cooler

Random 1: 0.3872

Random 2: 0.3251

Test Station Grid

Sublot Station Begin	12000	Sublot Offset Begin	12	RT	▼
Sublot Station End	13000	Sublot Offset End	24	RT	▼
Test Station	12387	Test Offset	16	RT	

Location Details

Over Here

Location Map Marker

Here Map Clear

Average 28 day Strength

3910

Pass/Fail

Pass Fail Eng. Judge In Progress

Lab Where Cylinders were Received(Entered by Lab)

My Awesome Co. SLC Lab Select Clear

Remarks

My Comments

An Interim Strength report will be Auto-Distributed when a Cure Sample Break is approved. When the final cure sample(s) are broken, the Final strength report will be queued for approval (See Parent).

Cast Date

February 18, 2018 12:48 Now Clear

Date in Cure Room

February 19, 2018 17:45 Now Clear

Field Cure?

Yes No

Cure Age (Days)

7

Break Date

Feb 25, 2018

Cyl Diameter(in)

4

Specimen Height/Depth (in)

Cube/Box/Prism Width (in)

5

Cube/Box/Prism Length/Span (in)

10

Max Load (Lbs)

27689

Strength (PSI)

2203

Fracture Type

B/2 ▼

Pad Type

Neoprene ▼

Broken by

Mark Twain Select Clear



WET CONCRETE COMPRESSIVE STRENGTH

ASTM: C143, C231, C31, C39, C138, C1064, C172

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 7/31/2019
Project No: Star-Lab1
Client Project No: 45678

Project: ZMR Lab Testing and Inspection
Contractor: Star Fleet Construction
Pay Item:
Placement Location: Over Here Here
Test Station: 123+87 **Offset:** 16 RT
Cast Date: 2/18/17 **Ticket No:** D3654
Set Id-Barcode: 2343 **Concrete Supplier:** Acme Supply
Specified PSI: 3,500 **Plant:** Plant #3
Bag Mix: 6 **Air Admix:** Yes
Mix No: C3361N59 **Admixture:** BSAF 243
Type Cement: III HE **Air Entrainment:** No
Cement (Lbs): 457 **Yds in Load:** 21
Fly Ash (Lbs): 148 **Accum. Yds:** 96
Placement Method: Agitated via Chute **Total Yds in Pour:** 10
Field Storage: Cooler

Air Content (%): 4.8
Slump (in): 1.50
Concrete Temp F°: 78
Air Temp F°: 79
Hot Water: No
Actual W/C Ratio: 0.504
Added Water (gal): 6.0
Unit Weight (lb/ft3): 146.8
Truck No: 347
Age Min: 38

DATE BROKEN	AGE in Days	Measured Avg Dia	AREA (in2)	LOAD (lbs)	STRENGTH PSI / MPA		% of SPEC.	Cylinder End Prep	BREAK TYPE	BROKEN BY
2/25/2018	7 FC	4.00	12.57	27689	2200	15.2	62.9	Neoprene	B/2	Mark Twain
3/18/2018	28	4.00	12.57	48960	3900	26.9	111.4	Neoprene	B/2	Greg Putnam
3/18/2018	28	4.00	12.57	51680	4110	28.3	117.4	Neoprene	C/-	Luke Skywalker
3/1/2018	28	4.00	12.57	46780	3720	25.6	106.3	Neoprene	A/1	Greg Putnam
3/23/2018	56	4.00	12.57	47588	3790	26.1	108.3	Neoprene	A/1	Mark Twain

FC = Field Cure Average 28 day Strength (psi): 3,910

Break Type A/1 Cone/Cone; B/2 Cone Split/Cone Vertical; C/- Cone Shear/NA; D/4 Shear/Diagonal; E/3 Columnar/Columnar; -/5 NA/Edge Fracture;
AASHTO/ASTM: -/6 NA/Two Edge Fracture. Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231

Remarks: My Comments

Technician: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/3348cd10-6eaa-4eb9-2437-69bbbf99467f>

Path:Task/Form REINFORCED CONCRETE / KG5467 ConcPlaceTrkLog GP 2/18 / KG5467 ConcSampleCylSet GP 2/18

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Concrete Sample Flex Beam Set

IMPORTANT!! - This assignment generates a SAMPLE that is started in the field and Completed in the LAB. Field personnel should mark Progress above to STARTED. Lab Personnel will mark it Complete once the sample is RECEIVED and processed at the lab.

Test Method

AASHTO T???ASTM D????Edit List

Test Date Time

March 22, 2019 14:59NowClear

Sampled By Client?

YesNo

Sample Barcode

GMP346

Specific location of this

Grid R-32

Test/Sample

Truck Number

35

Ticket Number

D5468

Yards in Load

9

Accumulated Yards

18

Slump (in)

2.5

Is this a Spread?

YesNo

Air (%)

4.5

Concrete Temperature

76

Air Temperature

56

Water Added (gal)

4

Unit Weight

148

Batch Age Calculation (24Hr,
i.e. 15:24)

Batch Time hh:mm	Pour Time hh:mm	Age Min
11:10	11:56	46

Sample Collection Source

PumpEdit List

If the cylinder set configuration you need doesn't exist, you can always create Cylinder Breaks by selecting "New Sub-Assignment" see top of Form. Field Cures will always be created this way. Be sure to identify which Cure Break records are Field Cures.

Cure Break Criteria - Defines

6x6x18 Flex Beams 7,28,28,28

which Cure Item Records are

SelectClear

created below

Create Break Sub-Records - Push only ONCE!! (<<See Tree View)

Average 28 day Strength

3882

Data For Other Trucks

Truck No	Ticket No	Yds/ load	Tot Yds Cum	Slump (in)	Air (%)	Temp Conc	Location/Remark

Lab Where Cylinders were

Received(Entered by Lab)

SelectClear

Concrete Flex Beams

Reports

Assignment Summary	Web-Interim Break Rpt - w/RescFull Insp & Truck Log	Web-Interim Break Rpt - w/RescMulti Cyl Sets/No Truck Log
Print Conc Base Multi Break	Print Conc Strength Interim Full DOT	

An Interim Strength report will be Auto-Distributed when a Cure Sample Break is approved. When the final cure sample(s) are broken, the Final strength report will be queued for approval (See Parent).

Cast Date	April 2, 2019 15:18	Now	Clear
Date in Cure Room		Now	Clear
Field Cure?	Yes No		
Cure Age (Days)	28		
Break Date	Apr 30, 2019		
Cyl Diameter(in)			
Specimen Height/Depth (in)	6		
Cube/Box/Prism Width (in)	6.1		
Cube/Box/Prism Length/Span (in)	18		
Max Load (Lbs)	10540		
Strength (PSI)	864		
Fracture Type	A/1		
Pad Type	Neoprene		
Broken by	Doctor Spock Select Clear		



1/5/2022

Star Fleet Energy
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

Flexural Strength Test

AASHTO: T119, T152, T23, T22, T121, T309, T141

Project No Star-Lab1
Client Reference No 45678
Concrete Supplier Star Fleet Construction
Plant Plant #2
Type Cement III
Project ZMR Retail Testing
Pour Location Column at Grid G12
Pour Structure Building 2
Set Id-Barcode GMP346
Specified PSI 3,500
Place Method Agitated via Chute
Total Yds in Pour 21.0
Ticket No D5468
Truck No 35
Field Storage Cooler

Date Tested 3/22/2019
Pour Date 10/1/2018
Contractor Staker
Bag Mix 7
Mix No C3361N44

Pour Type Foundation Stem Wall
Air Content (%) 4.5
Slump (in) 2.50
Concrete Temp F° 76
Air Temp F° 56
Added Water (gal) 4.0
Unit Weight (lb/ft3) 148.0
Age Min 46.0

Air Admix No
Admixture Yes
Pozzolan No
Hot Water No
NaCl Yes
Yds in Load 9.0
Accum Yds 18.0

DATE BROKEN	AGE in Days	WIDTH (in)	DEPTH (in)	SPAN (in)	LOAD (lbs)	STRENGTH PSI / MPA	% of SPEC.	Broken By
3/25/2019	3	6.00	6.00	18.0000	35,467	2,955	21.0	Frodo Bagins
3/29/2019	7	6.25	6.35	18.7300	24,356	1,815	13.0	Luke Skywalker
4/19/2019	28	6.00	6.00	18.0000	45,467	3,790	27.0	Luke Skywalker
4/19/2019	28	6.00	6.00	18.0000	47,689	3,975	28.0	Luke Skywalker
FC = Field Cure					Average 28 Day Strength (psi)		3,880	

Remarks Specific location

Technician *Greg Putnam*
Digital Signature By User Login

Manager *Greg Putnam*
Manager
Digital Signature By User Login

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of My Awesome Co..

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505

System Link <http://steploc.com/assignments/8D383C06-48C4-4B7E-B247-5D7BBBD07C5D>

System Path ZMR Retail Testing / REINFORCED CONCRETE / Star-Lab1 ConcBeamSet 3/22 GP

1/5/2022 11:22:15 AM

1/1

Inspection Checklist – Concrete/Steel Reinforcement

Inspection Date	February 20, 2019	Today	Clear
Location Map Marker	Here	Map	Clear
Item Inspected 1	Concrete Base 1		
Location(s) 1	South West Corner		
Elevation 1	Ground Floor		
Item Inspected 2	Concrete Base 2		
Location(s) 2	North East Corner		
Elevation 2	Ground Floor		

MIX/MTLS DOCUMENTED • Source/supplier verified • Mix Design Approved • Adequate lab test samples taken for concrete strength • Hot/Cold weather plan

Mix/Mtls Documentation	Accept	Report	NA
Acceptable?			
Mix/Mtls Documentation	Concrete mix was NOT approved.	No Surface evaporation Plan was submitted.	
Remarks	Source/Supplier was not approved.	No Hot/Cold weather plan was submitted.	
	Inadequate lab test samples taken for concrete strength and Aggregate gradation.	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)	

SUBGRADE • Subgrade acceptable type and properly compacted • Not too dry • Not frozen

Subgrade Acceptable?

Accept

Report

NA

Subgrade Remarks

Foundation/subgrade material was NOT of acceptable type and properly compacted.

Excessively cold or frozen surfaces were NOT warmed or removed to avoid freezing the concrete.

Excessively dry subgrade was NOT sprinkled with water to add moisture for proper curing.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excessively hot surfaces were NOT cooled prior to placement.

Excessively hot surfaces were NOT cooled prior to placement.;

FORMWORK • Proper Materials • Bracing sufficient to retain shape and position • Size and dimensions per plan • clean and free of debris • Oiled for release

Formwork Acceptable?

Accept

Report

NA

Formwork Remarks

Formwork was NOT properly braced.

Formwork was NOT properly cleaned and oiled for release.

Formwork was NOT the correct size per plan.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Samples Submitted for Testing • Coating Condition • Number and placement per plan • Tied and Spliced per spec • Cover • Bar Positioners spacing and number

Reinforcing Acceptable?

Accept

Report

NA

Reinforcing Remarks

Expansion Joints were NOT acceptable.

Rebar tying splicing and overlapping was NOT per plan and spec.

Rebar was NOT approved.

Cover provided for rebar was NOT per plan.

Some Rebar Mfg. Certifications and submittals are missing.

Rebar supports were NOT acceptable.

Rebar coating is missing or damaged.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Number and placement of rebar was NOT per Plan.

PLACEMENT EQUIPMENT • Delivery Truck Suitability • delivered within time constraint • Agitated

Equipment Acceptable?

Accept

Report

NA

Equipment Remarks

Insufficient samples and cylinders were taken to meet requirements.

Required Air Slump and Temperature tests were NOT performed.

Concrete was NOT Delivered and placed within the required time constraints

Water Cement Ratio was NOT within requirements.

Concrete was NOT properly mixed and agitated.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Concrete did NOT have acceptable plastic flow, uniformity and workability characteristics.

Water Cement Ratio was NOT within requirements.;

PLACEMENT METHOD • Continuous • Placed near final destination • Vibrators not used for lateral movement • Temperature and Weather • No standing water

Placement Method

Acceptable?

Accept

Report

NA

Placement Method Remarks

Material was NOT placed as near as possible to the final position, causing excessive lateral movement via vibration.

Placement was NOT continuous and without interruption of greater than 45 minutes.

Ambient temperatures were NOT within acceptable limits to avoid freezing or excessive heat.

Standing water was present, required mix modifications were verified, proper placement technique via pump or tremie was used.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Consolidation Remarks

Concrete was NOT properly consolidated with hand-held power vibrators.

Consolidation efforts were TOO LATE to provide adequate consolidation.

Vibrators were checked and found to be ineffective.

TOO FEW vibrators were available to provide adequate consolidation.

Mud was consolidated with paving machine vibrators.

Slip Form Auto-vibration NOT working.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

CONSOLIDATION METHOD • Proper Equipment, checked for effectiveness • Sufficient number of vibrators • Consolidated Immediately after placement

TEST CYLINDER • Proper On-site storage w/ temperature control and time to allow initial Set • Temperature monitors in place • Samples at Required Frequency

Consolidation Acceptable?

Accept

Report

NA

Test Cylinder Cure

Acceptable?

Accept

Report

NA

Test Cylinder Cure Remarks

Strength Cylinders were NOT properly stored onsite in temperature controlled container for a minimum of (??) Hrs prior to transport to Lab.

Temperature monitors were NOT installed to cover all cylinders.

Strength Cylinders stored onsite in cooler for a minimum of (??) Hrs prior to transport to Lab.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

(##) field cures were stored on site.

Schedules/Details/RFI

Referenced

Remarks

Weather

Temperature

Inspection Duration (Hours)

Code Inspected to

AWS-D1.1

AWS-D1.8

IBC

AISC

PCI

Acceptance Decision

Pass

Fail

Eng. Judge

In Progress

Inspector Certification

Kidd ICC Concrete #8901

Select

Clear

Reviewer Certification

Frodo ICC Conc #6789

Select

Clear



Concrete for Buildings Special Inspection and Check List

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 2/20/19

Project No: Star-Lab1

Client Project No: 45678

Code Inspected to: AWS-D1.1

Project/Task/Assn: ZMR Lab Testing and Inspection / REINFORCED CONCRETE / Concrete Building Structural GMP 12/5

	Item Inspected	Location(s)	Elevation
1	Concrete Base 1	South West Corner	Ground Floor
2	Concrete Base 2	North East Corner	Ground Floor

Area of Concern	Accept Report	Comments
MIX/MTLS DOCUMENTED • Source/supplier verified • Mix Design Approved • Adequate lab test samples taken for concrete strength • Hot/Cold weather plan	Accept	
SUBGRADE • Subgrade acceptable type and properly compacted • Not too dry • Not frozen	Report	Excessively hot surfaces were NOT cooled prior to placement.;
FORMWORK • Proper Materials • Bracing sufficient to retain shape and position • Size and dimensions per plan • clean and free of debris • Oiled for release	Accept	
REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Samples Submitted for Testing • Coating Condition • Number and placement per plan • Tied and Spliced per spec • Cover • Bar Positioners spacing and number	Accept	
PLACEMENT EQUIPMENT • Delivery Truck Suitability • delivered within time constraint • Agitated	Report	Water Cement Ratio was NOT within requirements.;
PLACEMENT METHOD • Continuous • Placed near final destination • Vibrators not used for lateral movement • Temperature and Weather • No standing water	NA	
CONSOLIDATION METHOD • Proper Equipment, checked for effectiveness • Sufficient number of vibrators • Consolidated Immediately after placement	Accept	
TEST CYLINDER • Proper On-site storage w/ temperature control and time to allow initial Set • Temperature monitors in place • Samples at Required Frequency	Accept	

Weather: Partly Cloudy

Inspection Duration (Hours): 2

Temperature: Mild 50 - 65

Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Details of the schedule

Remarks: Some remarks here

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

Inspector Cert: Kidd ICC Concrete #8901

Manager Cert: Frodo ICC Conc #6789

System Link: <http://demo.Vahalo.com/assignments/5a4e5dfe-056f-48bb-53ac-abdebd4daf2a>

Concrete Yield & Unit Weight Calculations

Water (lbs)	924.63
Cement (lbs)	5585
Pozzolan (lbs)	970
Coarse Agg #1 (lbs)	17760
Coarse Agg #2 (lbs)	
Coarse Agg #3 (lbs)	
Fine Agg #1 (lbs)	12760
Fine Agg #2 (lbs)	
Total Batched Wt (lbs)	37999.63
Yield (cu ft)	267.6
Yield (cu yds)	9.9
Load Size (Theor) (cu yds)	10
Yield (Relative)	99
Actual Yield (cu ft/yd)	26.76
Wt of Conc + Tare (lbs)	44
Wt of Tare (lbs)	85
Wt of Concrete (lbs)	35.5
Vol of Container	0.25

Unit Weight (p.c.f.)	142
Total Cementitious (lbs)	6555
Actual Cu Yds	9.9
Cement Content (lbs/cu yd)	661.37
Cement Content (sacks/cu yd)	7.04
Batched Water (lbs)	924.63
Water in Agg (lbs)	30520
Water/Cement Ratio	4.8

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



YIELD AND UNIT WEIGHT CALCULATIONS

AASHTO: T121

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 2/27/2019
Project. No: Star-Lab1
Client Project No: 45678

Project: ZMR Lab Testing and Inspection

Batch Number: **Cubic Yards:**

Slump: 6 **Air Content:**

Mix #: 52852061

Conc. Temp: 43

Ingredient	Batched Weight	Yield (cu ft):	267.60
Water (lbs):	924.63	Yield (cu yds):	9.9
Cement (lbs):	5,585	Load Size (Theor) (cu yds):	10.0
Pozzolan (lbs):	970	Yield (Relative):	99%
Coarse Agg #1 (lbs):	17,760	Actual Yield (cu ft/yd):	26.8
Coarse Agg #2 (lbs):	0	WT of Conc + Tare (lbs):	44.0
Coarse Agg #3 (lbs):	0	WT of Tare (lbs):	85.0
Fine Agg #1 (lbs):	12,760	WT of Concrete (lbs):	35.5
Fine Agg #2 (lbs):	0	Vol of Container:	0.250
Total Batched WT (lbs):	37,999.63	Unit Weight (p.c.f.):	142.0
Cement Content		Water/Cement Ratio	
Total Cementitious (lbs):	6,555	Batched Water (lbs):	924.63
Actual Cu Yds:	9.9	Water in Agg (lbs):	30520
Cement Content (lbs/cu yd):	661.37	Water/Cement Ratio:	4.80
Cement Content (sacks/cu yd):	7.04		

Remarks: My Comments

Technician:

Digital Signature By User Login

Manager:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/0bf0a771-138e-4d5a-0bb4-874170ecd3d4>

Path:Task/Form REINFORCED CONCRETE / 012345 ConcTestsOnly(Multi) 1/11 JW / Star-Lab1 ConcTestSet 1/23 JW / Star-Lab1
YieldUnitWeight 2/22 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Material Aggregate Pit Sample

Reports

[🔍 Assignment Summary](#)
[🖨️ Print Labels](#)

IMPORTANT!! - This assignment generates a **SAMPLE** that is started in the field and Completed in the LAB. Field personnel should mark Progress above to **STARTED**. Lab Personnel will mark it **Complete** once the sample is **RECEIVED** and processed at the lab

Sample Date Time	January 1, 2020 12:00		🕒 Now	🗑️ Clear
Sampled By Client?	☐ Yes ☒ No			
Test Method Standard	☐ ASTM ☒ AASHTO			
Barcode	JW10101092020			
Pay Item	Search or browse ▼			
Material Source (Select Resource)	TX- TypeA HMA Fine Aggregate	👉 Select	🗑️ Clear	
Material Source (If not selected via Resource)				
Material Description (If not selected via Resource)				
Material Grade Criteria	ITD Aggregate Base	👉 Select	🗑️ Clear	
Material Target Criteria	HMA Staker Target 3/4/16	👉 Select	🗑️ Clear	
Sample Source	Windrow ▼			
Sample Type	Random-Independent ▼			
Split Sample Id	112233			
Feature	Apron ▼			
Feature ID (Lift, Pile#, Bent#, etc.)	998877			
Other Location Detail	Other Location Detail From Mtl Agg Pit Sample			
Comments	Comments for Mtl Agg Pit Sample			
Lab Where Sample was Received(Entered by Lab)	My Awesome Co. SLC Lab	👉 Select	🗑️ Clear	

Clay Lumps & Friable Particles

Reports

🔍 Assignment Summary

🔍 Pmt-Clay Lumps & Friable Particles Report

Test Date

October 16, 2019

📅 Today 🗑 Clear

Date Sample Received

October 15, 2019

📅 Today 🗑 Clear

Clay Lumps and Friable
Particles

Coarse					
	Original Wt.	% Retained	Final Wt.	% Loss	Weighted Loss
1.5" - .75"	1,000.0	15.5	998.3	0.2	0.0
.75" - .375"	1,000.0	40.5	950.2	5.0	2.0
.375" - #4	1,000.0	28.3	925.1	7.5	2.1
Total		84.3			
Reference Table - Weight per size					
		Grams min.			
1.5" - .75"		3000			
.75" - .375"		2000			
.375" - #4		1000			
+ #16		25.0			
Fine					
	Original Wt.	% Retained	Final Wt.	% Loss	Weighted Loss
+ #16	1,000.0	16.0	950.2	5.0	0.8
Total		16.0			
Total Sample		100.3			5.0

Specification

Remarks

Remarks about clay lumps


ACME
 WIDGETS LTD.

2/27/2020

Clay Lumps and Friable Particles in Aggregates
ASTM C142
Client Star Fleet Construction

Address ISTC - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520

Project No 012225

Client Reference No 45678

Material ACME Fine Sand Agg (1813004FA)

Sample Source Pile 3 in south yard

Project ZMR Lab Testing and Inspection

Location Detail Other details of location

Date Tested 10/16/2019

Sample Rec. Date 10/15/2019

Date Sampled 10/1/2019

Sampled By Jenelle Wilcox

	<u>% Retained</u>	<u>% Loss</u>	<u>Weighted Loss</u>	<u>Specification</u>
Coarse				
1.5" to 3/4"	15.5	0.2	0.0	
3/4" to 3/8"	40.5	5.0	2.0	
3/8" - #4	28.3	7.5	2.1	
Fine + #16	16.0	5.0	0.8	
Total Sample			5.0	3.0

Remarks Remarks about clay lumps

Technician

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119

System Link <http://demo.vahalo.com/assignments/DB420272-DD1D-465C-D0CB-8A36B28D151E>
System Path ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 ClayLumpsFriable 10/30 JW

2/27/2020 3:14:53 PM

Dry Rodded Unit Weight

Reports

🔗 Assignment Summary

🔗 Prnt-Dry Rodded Unit Weight Report

Test DateFebruary 2, 2020TodayClear

Date Sample ReceivedFebruary 1, 2020TodayClear

Dry Rodded Unit Weight

Calibration of Measure

Mass of Measure & Plate	5.0
Mass of Meas., Water & Plate	10.0
Mass of Water (lbs)	5.000
Temperature of Water (F)	60.0
Density of Water (lbs/ft3)	62.366
Volume of Measure (ft3)	0.080

Bulk Density and Voids Determination

Mass of Empty Measure	10.0
Mass of Measure + Aggregate	15.0
Mass of Aggregate	5.0
Density of Aggregate	62.366
Aggregate Relative Density	10.0
Void Content	90.005

Note: If masses are measured in grams, divide by 453.6 to convert to pounds.

Pass Fail Eng. Judge

PassFailEng. JudgeIn Progress

Remarks

remarks about this


ACME
 WIDGETS LTD.

2/27/2020

Bulk Density and Voids in Aggregates**Client** Star Fleet Construction**Address** ISTC - Bay Town
3166 Decker Dr.
Baytown Texas, 77520**AASHTO T-19****Project No** 012225**Date Tested** 2/2/2020**Client Reference No** 45678**Sample Rec Date** 2/1/2020**Material** TX- TypeA HMA Fine Aggregate**Date Sampled** 1/1/2020**Sample Source** NW Pile**Sampled By** Star Fleet Construction**Project** ZMR Lab Testing and Inspection**Location Detail** Other Location Detail From Mtl Agg Pit Sample**Density of Aggregate** 62**Void Content** 90**Remarks** remarks about this**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/70CDD255-17E9-46CF-A358-7FB423094923>**System Path** ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / 012225 DryRodUnitWt 1/31 JW

2/27/2020 1:25:35 PM

Flakiness Index

Reports

🔗 Assignment Summary

🔗 Pmt-Flakiness Index Report

Determining the Percentage of Flakiness Particles Index of Coarse Aggregate Particles in Coarse Aggregate

Test Date

January 5, 2020

📅 Today

🗑 Clear

Date Sample Received

January 4, 2020

📅 Today

🗑 Clear

Flakiness Index

Sieve Size	1"	3/4"	1/2"	3/8"	1/4"	Total Mass
Beginning Particles Wt.	56.0	127.0	109.0	46.0	50.0	388.0
Particles Passing Wt.	15.7	100.2	55.4	30.5	45.0	246.8
Percent Flakiness	28.0%	78.9%	50.8%	66.3%	90.0%	63.6%

Remarks

Remarks


ACME
 WIDGETS LTD.

2/27/2020

Client Star Fleet Construction
Address ISTC - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520
Project No 012225**Client Reference No** 45678**Material** TX- TypeA HMA Fine Aggregate**Sample Source** NW Pile**Project** ZMR Lab Testing and Inspection**Location Detail** Other Location Detail From Mtl Agg Pit Sample

Determining the Percentage of Flakiness Particles Index of Coarse Aggregate

UDOT MOI 933

Date Tested 1/5/2020**Sample Rec. Date** 1/4/2020**Date Sampled** 1/1/2020**Sampled By** Star Fleet Construction**Test Results****Percent Flakiness****Specification**

1"	28%	
3/4"	79%	
1/2"	51%	
3/8"	66%	
1/4"	90%	
Total Mass	64%	20% Max

Remarks Remarks**Technician** *Jenelle Wilcox*

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/CEE793CE-96E0-4C7B-6F85-D6BB5AEA5890>**System Path** ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / 012225 FlakinessIndex 1/9 JW

2/27/2020 2:20:29 PM

Flat & Elongated Particles

Reports

🔗 Assignment Summary

🔗 Prnt-Flat & Elongated Particles Report

Test Date

January 5, 2020

📅 Today 🗑 Clear

Date Sample Received

January 2, 2020

📅 Today 🗑 Clear

Method

A

B

Ratio Used

5

ⓘ

Flat & Elongated Particles

Sieve Size	Individual Percent Retained	Number of Particles in Size Fraction	Number of Flat Particles	Percent of Flat Particles	Number of Elongated Particles	Percent of Elongated Particles	Number of Flat & Elongated Particles	Percent of Flat & Elongated Particles
1" to 3/4"	56.0	12	10	83.3	8	66.7	4	33.3
3/4" to 1/2"	55.0	13	5	38.5	5	38.5	5	38.5
1/2" to 3/8"	50.0	15	6	40.0	6	40.0	5	33.3
3/8" to No. 4	45.0	18	7	38.9	4	22.2	6	33.3

Comments

Comments


ACME
 WIDGETS LTD.

2/27/2020

Flat & Elongated Particles in Coarse Aggregate

ASTM D4791

Client Star Fleet Construction
Address ISTD - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520
Project No 012225**Client Reference No** 45678**Material** TX- TypeA HMA Fine Aggregate**Sample Source** NW Pile**Project** ZMR Lab Testing and Inspection**Location Detail** Other Location Detail From Mtl Agg Pit Sample**Date Tested** 1/5/2020**Sample Rec. Date** 1/2/2020**Date Sampled** 1/1/2020**Sampled By** Star Fleet Construction**Ratio Used** 5**Method** A

Seive Size	Individual Percent Retained	Particles in Size Fraction	Percent of Flat Particles	Percent of Elongated Particles	Percent of Flat & Elongated Particles
1" to 3/4"	56.0	12.0	83.3	66.7	33.3
3/4" to 1/2"	55.0	13.0	38.5	38.5	38.5
1/2" to 3/8"	50.0	15.0	40.0	40.0	33.3
3/8" to No. 4	45.0	18.0	38.9	22.2	33.3

Weighted Averages Results

Seive Size	Flat Particles	Elongated Particles	Flat & Elongated Particles
1" to 3/4"	46.7	37.3	18.7
3/4" to 1/2"	21.2	21.2	21.2
1/2" to 3/8"	20.0	20.0	16.7
3/8" to No. 4	17.5	10.0	15.0
Total	105.3%	88.5%	71.5%

Comments Comments**Technician** Jenelle Wilcox

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/BE038444-14AF-421B-5582-FA690340C2FF>**System Path** ZMR Lab Testing and Inspection / SOILS TESTING AND OBSERVATION / 012225 FlatElongated 1/9 JW

2/27/2020 2:09:05 PM

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!

1/5/2022

LA Abrasion

Test Date	January 5, 2022	Today	Clear
Date Sample Received	January 5, 2022	Today	Clear
Specification	40%		
Sampling Method	Method B		
Comment of Deviations			

LA Abrasion

Test Information

LA Abrasion Type	ASTM C-131
Test Method	B

Screen Size

	Original Weight
	Input
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	2,499.5
1/2" - 3/8"	2,500.5
3/8" - 1/4"	
1/4" - #4	
#4 - #8	
Original Total Wt.	5,000.0
	5000 ± 10
+ #12 Final Wt.	3,575.4
Percent Loss	28.5%

No of Spheres	11
Pass Fail	Pass Fail Eng. Judge In Progress
Remarks	My Remarks


ACME
 WIDGETS LTD.

1/5/2022

Client Star Fleet Energy
Address Main Shop 2
 5041 Pasadena Hwy
 #701
 Pasadena Texas, 77505
Project No Star-Lab1**Client Reference No** 45678**Material Source** Acme 1.5" Course Agg (1813004CA)**Material Description** Grey Course Crushed Gravel**Project** ZMR Retail Testing**Location Detail** East Stock Pile**Specification** 40%**Comment of Deviations**

Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

ASTM C-131

Date Tested 1/5/2022**Sample Rec. Date** 1/5/2022**Date Sampled** 5/18/2021**Sampled By** Client**Sample Method** Method B**Grading =** B**Number of Spheres =** 11**Percent Wear =** 28%**Remarks** My Remarks
Technician *Greg Putnam*
 Digital Signature By User Login

Manager
 Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of the agency.

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505**System Link** <http://steploc.com/assignments/5C71EBA5-BB9C-4EFE-7953-D665D5B666F0>**System Path** ZMR Retail Testing / REINFORCED CONCRETE / Star-Lab1 LAAbrasion1" GP220105-1

1/5/2022 2:24:21 PM

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!

1/1

Micro-Deval

Reports

🔗 Assignment Summary

🔗 Prnt-Micro-Deval Report

Test DateNovember 2, 2019TodayClear

Date Sample ReceivedNovember 1, 2019TodayClear

Maximum Aggregate Size (in)3/4" ⓘ

Grading UsedA

Original Weight10002

Weight After Abrasion9588

Revolutions12000

Percent Loss12

Reference Test Results

Test Number	Test Date	Percent Loss	Standard Deviation	Test ID
1	10/24/2019	18.9	0.3	A
2	10/25/2019	19.4	-0.2	B
3	10/26/2019	18.5	0.7	C
4	10/27/2019	17.7	1.5	D
5	10/28/2019	20.1	-0.9	E
6	10/29/2019	18.3	0.9	F
7	10/30/2019	18.7	0.5	G
8	10/31/2019	20.0	-0.8	H
9	11/1/2019	20.8	-1.6	I
10	11/2/2019	19.2	0.0	J
11	11/3/2019	19.2	0.0	K
12	11/4/2019	19.0	0.2	L
13	11/5/2019	19.8	-0.6	M
14	11/6/2019	19.8	-0.6	N
15	11/7/2019	18.6	0.6	O
16	11/8/2019	20.5	-1.3	P
17	11/9/2019	18.6	0.6	Q
18	11/10/2019	19.2	0.0	R
19	11/11/2019	17.8	1.4	S
20	11/12/2019	20.3	-1.1	T
Average		19.2		

Date of last closestOctober 28, 2019TodayClear

Reference Aggregate Test

Percent Loss of the above0test

Variance from standard

RemarksRemarks about this


ACME
 WIDGETS LTD.

2/27/2020

Client Star Fleet Construction**Address** ISTC - Bay Town
3166 Decker Dr.
Baytown Texas, 77520**Project No** 012225**Client Reference No** 45678**Material** ACME Fine Sand Agg (1813004FA)**Sample Source** Pile 3 in south yard**Project** ZMR Lab Testing and Inspection**Location Detail** Other details of location
**Resistance of Coarse Aggregates to Degradation
by Abrasion in the Micro-Deval Apparatus**
AASHTO T-327-16**Date Tested** 11/2/2019**Sample Rec. Date** 11/1/2019**Date Sampled** 10/1/2019**Sampled By** Jenelle Wilcox**Maximum Aggregate Size** 3/4"**Percent Loss** 12.0%
Reference Aggregate Testing Information
Date of last closest Reference Aggregate Test 10/28/2019**Percent Loss of the above Test** 0.0%**Remarks** Remarks about this**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/A7D0A5C6-6393-40F7-C4FA-0D28CEDD4AA1>**System Path** ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 MicroDeval 11/4 JW

2/27/2020 3:04:57 PM

Moisture Vapor Emission

Reports

🔍 Assignment Summary

🖨️ Prnt-Moisture Emission on Concrete Report

Test Date

December 3, 2019

TodayClear

Date Sample Received

December 2, 2019

TodayClear

Specification Lbs/Day

1.5

Moisture Emission in Concrete

Test #	INPUT MILITARY TIME				Moisture Emission				Test Location
	Start Date	Start Time	Finish Date	Finish Time	Start Weight	Finish Weight	Time	lbs/100ft2/24 hour period	
1	04/02/04	9:30	04/05/04	9:30	100.0	102.2	72.00	3.32	Building A, Caffeine ingestion room
2	04/02/04	9:30	04/04/04	9:30	100.0	102.2	48.00	4.98	
3	04/02/04	15:30	04/05/04	15:30	100.0	102.2	72.00	3.32	
4	04/02/04	15:30	04/05/04	10:30	100.0	102.2	67.00	3.57	
5							0.00	0	
6							0.00	0	
7							0.00	0	
8							0.00	0	
9							0.00	0	
10							0.00	0	

Pass Fail Eng. Judge

PassFailEng. JudgeIn Progress

Remarks


ACME
 WIDGETS LTD.

2/27/2020

Client Star Fleet Construction**Address** ISTC - Bay Town
3166 Decker Dr.
Baytown Texas, 77520
**Standard Method for Measuring Moisture Vapor
Emission Rate of Concrete Subfloor Using
Anhydrous Calcium Chloride**
ASTM F-1896-98**Project No** 012225**Client Reference No** 45678**Material** Acme 1.5" Course Agg (1813004CA)**Sample Source** South east corner of the yard**Project** ZMR Lab Testing and Inspection**Location Detail** Here**Date Tested** 12/3/2019**Sample Rec. Date** 12/2/2019**Date Sampled** 4/3/2019**Sampled By** Greg Putnam

<u>Test #</u>	<u>Time Duration</u> <u>(hrs)</u>	<u>Moisture</u>	<u>Specification</u>	<u>Location</u>
		<u>Emission</u> <u>(lbs/day)</u>	<u>Max</u> <u>(lbs/day)</u>	
1	72.00	3.32	1.50	Building A, Caffeine Ingestion room
2	48.00	4.98	1.50	
3	72.00	3.32	1.50	
4	67.00	3.57	1.50	
5	0.00		1.50	
6	0.00		1.50	
7	0.00		1.50	
8	0.00		1.50	
9	0.00		1.50	
10	0.00		1.50	

Remarks Remarks**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

1/5/2022

Sand Equivalent

Test Date

January 5, 2022

Today

Clear

Date Sample Received

January 5, 2022

Today

Clear

Test Method

ASTM

AASHTO

Edit List

Prep Method

Wet

Dry

Edit List

Shaker Method

Mechanical Shaker

Edit List

Sand Equivalency Minimum

20

f not selected via Resource)

Sand Equivalent Time

Tube #	1	2	3
Time Begin Soaking (10 +/- 1 minute)	1:00	13:03	13:06
Time Begin Agitation (30 seconds)	1:10	1:13	1:16
Begin Sedimentation (hh:mm:ss)	13:11	13:14	13:17
Time of Clay Reading (after 20 minutes +/- 15 seconds)	13:31	13:34	13:37

Sand Equivalent Test

Tube #	1	2	3
Sand Reading	3.0	3.0	3.0
Clay Reading	10.9	11.0	11.0
Sand Equivalent Value	28.0	28.0	28.0
Average Value	28.0		

Comments

My Comments

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress


ACME
 WIDGETS LTD.

1/5/2022

Sand Equivalent Value of Soils and Fine Aggregate

ASTM D2419

Client Star Fleet Construction
Address ISTC - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520

Project No ITD-17Bg
Client Reference No A020(309)
Material Source Mordor Quarry - Granular Borrow 3"
 minus
Material Description Silty Brown Gravel
Project ITD - Bridge Replacement
Location Detail East Stockpile

Date Tested 1/5/2022
Sample Rec Date 1/5/2022
Date Sampled 12/19/2017

Sampled By

Prep Method Wet
Shaker Method Mechanical Shaker

Specification

Sand Reading Average	1.5	
Clay Reading Average	5.5	
Sand Equivalent Value	28.0	20.0 Min

Remarks My Comments

Technician *Greg Putnam*
 Digital Signature By User Login

Manager
 Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not reproduced, except in full, without the prior written approval of the agency.

Lab Address 5041 Pasadena Hwy#701 Pasadena Texas, 77505
System Link <http://steploc.com/assignments/4B2BB3DB-CE93-435D-F4AF-97E64A19E874>
System Path ITD - Bridge Replacement / Structural Backfill / ITD-17Bg SandEquiv 12/19 GP

1/5/2022 2:49:32 PM

Soundness of Fine and Coarse Aggregates

Reports

[Assignment Summary](#)
[Print-Soundness of Fine & Coarse Aggregates](#)

Test Date	January 5, 2020	Today	Clear
Date Sample Received	January 1, 2020	Today	Clear
Cycles	5		
Type of Solution	MgSO4		
Condition of Solution	Used		

Gradation Input

Sieve Size	Input Grams	Input % Passing	% Passing USED IN Test	Actual % Retained	Corrected to 100% Retained
3 1/2"	0.0		0	100.0	142.0
2 1/2"	0.0		0	0.0	0.0
2"	5,373.0		68	-68.5	-97.2
1 1/2"	1,079.0		62	6.3	9.0
1"	2,042.0		50	12.0	17.0
3/4"	1,060.0		44	6.2	8.8
1/2"	916.0		39	5.4	7.6
3/8"	500.0		36	2.9	4.2
No. 4	1,021.0		30	6.0	8.5
-No. 4	5,116.0	Total Retained		70.4	100.0
Total - #4	17,031.4				
No. 8	64.0		26	3.5	11.7
No. 16	49.0		23	2.7	9.0
No. 30	98.0		18	5.3	17.9
No. 50	42.0		16	2.3	7.7
No. 100	64.9		12	3.5	11.9
No. 200	100.0		7.0	5.4	18.3
-No. 200(Pan)	13.7	0.0		7.0	23.6
Total -#200	119.7		6.5		100.0
Wet Original Wt.	555.2	Total Fine Retained		29.6	
Dry Original Wt.	547.0	Total Retained		100.0	
Washed Wt.	441.0				

Soundness - Coarse

Qualitative Examination of Coarse Aggregates

Sieve Size	Total No. of pieces before Split No. of test			Crumble No. of Pieces		Crack No. of Pieces		Flake No. of Pieces		Disintegration No. of Pieces	
	Pieces	%		Pieces	%	Pieces	%	Pieces	%	Pieces	%
3 1/2" to 2 1/2"	8	2	25	1	13	1	13	1	13	1	13
2 1/2" to 2"	10	1	10	3	30	2	20	1	10	0	0
2" to 1 1/2"	20	1	5	1	5	1	5	5	25	5	25
1 1/2" to 1"	36	13	36	1	3	12	33	5	14	8	22
1" to 3/4"	19	6	32	4	21	8	42	2	11	3	16

Soundness Test of Coarse Aggregate

Sieve Size	Required Mass	Container ID No.	Fraction Mass		Percent Passing Designated Sieve After Sieve Test	Original % Retained	% Weighted Loss
3 1/2" to 2 1/2"	7000 +/- 100		Before	After	0	0.0	0
Rescreen 2 1/4"							
2 1/2" to 2"	3000 +/- 300		2,825	2,656		-97.2	0.00
2" to 1 1/2"	2000 +/- 200		1,958	1,898		9.0	0.00
Total	5000 +/- 300		4,783	4,554	4.8	-88.2	-4.22
Rescreen 1 1/4"							
1 1/2" to 1"	1000 +/- 50		1,012	952		17.0	0.00
1" to 3/4"	500 +/- 30		513	450		8.8	0.00
Total	1500 +/- 50		1,525	1,402	8.1	25.9	2.09
Rescreen 5/8"							
3/4" to 1/2"	670 +/- 10		675	637		7.6	0.00
1/2" to 3/8"	330 +/- 5		333	275		4.2	0.00
Total	1000 +/- 10		1,008	912	9.5	11.8	1.12
Rescreen 5/16"							
3/8" to #4	300 +/- 5		298	265	11.1	8.5	0.94
Rescreen #5							
Total						-42.0	-0.07

Soundness - Fine

Soundness Test of Fine Aggregate

Sieve Size	Required Mass	Container ID No.	Fraction Mass		Percent Passing Designated Sieve After Sieve Test	Original % Retained	% Weighted Loss
#4 to #8	100 +/- 1		Before	After	11.2	11.7	1.31
#8 to #16	100 +/- 1		100	91.9	8.1	9.0	0.73
#16 to #30	100 +/- 1		100	95.2	4.8	17.9	0.86
#30 to #50	100 +/- 1		100	95.8	4.2	7.7	0.32
#50 to #100	---					11.9	
#100	---					23.6	
#200	---					18.3	
Total						100.0	3.22

Remarks

Remarks



3/3/2020

Soundness of Fine and Coarse Aggregates

Client Star Fleet Construction**Address** ISTC - Bay Town
3166 Decker Dr.
Baytown Texas, 77520

ASTM C-88, AASHTO T104

Project No 012225**Date Tested** 1/5/2020**Client Reference No** 45678**Sample Rec. Date** 1/1/2020**Material** ACME Fine Sand Agg (1813004FA)**Date Sampled** 10/1/2019**Aggregate Source** Pile 3 in south yard**Sampled By** Jenelle Wilcox**Project** ZMR Lab Testing and Inspection**Location Detail** Other details of location**No. Cycles** 5**Type of Solution** MgSO4**Condition of Solution** Used**Soundness Test of Coarse Aggregate**

Sieve Fraction	% Retained in Gradation	Beginning Mass	Percent Passing Designated Sieve After Sieve Test	Weighted Percent Loss	
3 1/2" to 2 1/2"	0.0	0			
2 1/2" to 1 1/2"	-88.2	4,783	4.8	-4	
1 1/2" to 3/4"	25.9	1,525	8.1	2	
3/4" to 3/8"	11.8	1,008	9.5	1	
3/8" to #4	8.5	298	11.1	1	Spec
Total Coarse Fraction Weighted % Loss				0	16% Max

Soundness Test of Fine Aggregate

Sieve Fraction	% Retained in Gradation	Beginning Mass	Percent Passing Designated Sieve After Sieve Test	Weighted Percent Loss	
#4 to #8	11.7	100	11.2	1	
#8 to #16	9.0	100	8.1	1	
#16 to #30	17.9	100	4.8	1	
#30 to #50	11.9	100	4.2	0	
#50 to #100	18.3	---	---	---	
Minus #100	23.6	---	---	---	Spec
Total Fine Fraction Weighted % Loss				3	16% Max
Total Combined Weighted % Loss				3	

Qualative Examination of Coarse Aggregate

Sieve Fraction	Total No. of Pieces Before Test	Particles Exhibiting Distress									
		Split		Crumble		Crack		Flake		Disintegration	
		No. of Pieces	%	No. of Pieces	%	No. of Pieces	%	No. of Pieces	%	No. of Pieces	%
3 1/2" to 2 1/2"	8	2	25	1	13	1	13	1	13	1	13
2 1/2" to 2"	10	1	10	3	30	2	20	1	10	0	0
2" to 1 1/2"	20	1	5	1	5	1	5	5	25	5	25
1 1/2" to 1"	36	13	36	1	3	12	33	5	14	8	22
1" to 3/4"	19	6	32	4	21	8	42	2	11	3	16

Remarks Remarks**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/1851FA4E-759C-4243-3D81-A78D35123E12>**System Path** ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 SoundnessCoarse 1/9 JW

3/3/2020 10:25:41 AM

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!

Page 112 of 215

1

Uncompacted Voids

Reports

Assignment Summary

Pmt-Uncompacted Void Content of Fine Agg Report

Test DateFebruary 2, 2020TodayClear

Date Sample ReceivedFebruary 1, 2020TodayClear

Uncompacted Void Content
of Fine Aggregate

Testing Requirements

Test MethodMethod A

Fine Aggregate Sizes	Target	Actual
No. 8 - No. 16	44 ± 0.2	70.00
No. 16 - No. 30	57 ± 0.2	80.00
No. 30 - No. 50	72 ± 0.2	90.00
No. 50 - No. 100	17 ± 0.2	100.00
Total	190 ± 0.2	340.00

Test Data

Description	Test #1	Test #2
Measure + Sand (grams)	100.00	100.00
Empty Measure (grams)	80.00	85.00
Sand (grams)	20.00	15.00
Volume of Measure (ml)	26.00	25.00
GSB(OD)	5.00	5.50
Voids (%)	42.31	62.00
Average	52.15	

Pass Fail Eng. Judge

PassFailEng. JudgeIn Progress

Remarks

Some Remarks


ACME
 WIDGETS LTD.

2/27/2020

Uncompacted Void Content of Fine Aggregate

Client Star Fleet Construction
Address ISTC - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520
AASHTO T-304**Project No** 012225**Date Tested** 2/2/2020**Client Reference No** 45678**Sample Rec Date** 2/1/2020**Material** ACME Fine Sand Agg (1813004FA)**Date Sampled** 10/1/2019**Sample Source** Pile 3 in south yard**Sampled By** Jenelle Wilcox**Project** ZMR Lab Testing and Inspection**Location Detail** Other details of location**Test Method** Method A**Voids** 52**Remarks** Some Remarks**Technician**

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/D0149B5D-887A-4612-808A-399E3843DF37>**System Path** ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 UncmpctVoids 2/4 JW

2/27/2020 2:56:10 PM

Asphalt Inspection

Reports

[Assignment Summary](#)
[Web-Inspection Check list - HMA](#)
[Pmt-H M A Insp Chklist](#)
[Pmt-Inspection Check list - HMA](#)

HMA placement details

Inspection Date	December 7, 2016	Today	Clear
Location Map Marker	Here Map Clear		
Location Details	Location Details		
Pay Item (Select)	Search or browse		
Pay Item PO WO	Pay Item		
Station Begin	12000		
Station End	14000		
Offset Begin	12		
Offset Begin Left/Right	LT RT		
Offset End	24		
Offset End Left/Right	LT RT		
Width (Ft)	12		
Default Nuke Gauge	Troxler 04 Select Clear		
Std Count-DS1	346		
Std Count-DS2	457		
Gauge Offset (If Used)			
Installed HMA Mix Design	HMA -1.5-A PG 64-34 Staker Select Clear		
Mix Design (If No Mix Design Resc.)	Mix Design No		

Supplier (If No Mix Design Resc.)	Supplier
Pit/Plant (If No Mix Design Resc.)	Pit Plant
HMA Acceptance Criteria	UDOT HMA Select Clear
Requirement Summary	Density 96-98%, Cores (Tons) <700=4; 701-900=6; 901-1100=8; >1100=10
Max Density from Mix Design	
Marshall/Rice Density	149.5
Default Curve / Lab#	
Tested Layer Thickness (in)	6
Mode Depth (in)	3
Lift Number	1
Crew Foreman	JOE

MIX/MTLS DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken for Mix strength and Aggregate gradation •

Mix/Mtls Documentation Acceptable?	Accept Report NA
Mix/Mtls Documentation Remarks	HMA mix and it's ingredients were NOT verified as approved and acceptable. Some required Submittals were missing.
	Supplier is not approved. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)
	Some required Submittals were missing.;

PRE-PLACEMENT • Receiving surface clean, free of deleterious materials deformities and potholes • Proper Tack coat application • Verify placement depth and width per plan •

Pre-Placement Acceptable?	Accept	Report	NA
Pre-Placement Remarks	Tack coat was NOT properly applied. Tack coat was NOT allowed sufficient time to cure before HMA placement. Utility covers, monuments and other existing features have NOT been located referenced and protected. Receiving surfaces were NOT clean and free of organic or deleterious material. Receiving surfaces were NOT free of deformities or potholes. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Utility covers, monuments and other existing features have NOT been located referenced and protected.;		

PLACEMENT EQUIPMENT & METHOD • Proper Paver used • Smooth, even placement at proper temperature • Steady speed • proper edge slopes or match to curb and gutter

Placement Equip & Method Acceptable?	Accept	Report	NA
Placement Equip & Method Remarks	The Paving machine failed. Proper Edge slope or Match to Curb and Gutter Was Not Accomplished. HMA Placed using unacceptable technique. Lab samples were collected from behind the paver and submitted for Sieve analysis and Asphalt content (##), Rice specific gravity and VMA(##). HMA Placed at inconsistent speed. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) Mix temperature at time of placement was too low/high The Paving machine failed.;		

POST-PLACEMENT • Compacted using proper equipment and rolling technique • Small vibratory compactor was used as needed • Density and thickness cores taken • Longitudinal and transverse joints offset • Protected from traffic during cure

Post-Placement Acceptable?	Accept	Report	NA
Post-Placement Remarks	Compaction was done using unacceptable equipment. Longitudinal and transverse joints were NOT offset as required. Small vibratory compactor was NOT used in areas where large rollers were ineffective or could not reach. Temperature and weather conditions were NOT acceptable for HMA placement. Density and thickness cores were NOT randomly laid out and performed as required. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) HMA was NOT kept free of loading allowed to properly cure. Compaction was done using unacceptable equipment.;		
General Comments	My Comments		
Weather	Overcast		
Temperature	Mild 50 - 65		
Inspection Duration (Hours)	4		

Calc'd Qty Installed (SY) 2666.7

Calc'd Qty Installed (CY) 222.2

Calc'd Qty Installed (Ton) 448.5

Entered Qty Installed (SY) 54

Entered MS&T Qty Installed (Ton) 34

Entered Qty Installed (CY)

Specified Compaction Method **Rice** **Marshall**

Acceptance Decision **Pass** **Fail** **Eng. Judge** **In Progress**

HMA Placement – Density Test (Sub-Records)

Reports

[Assignment Summary](#)
[Web-HMA Density Report \(Grid\)](#)
[Web-HMA Density Report No Stationing\(Grid\)](#)
[Print-H M A Density Report \(Grid\)](#)
[Print-H M A Density Report No Stationing\(Grid\)](#)

Specified Compaction

Method

Rice**Marshall**

Specified Density

92

HMA Densities

Automatic Sublot Calculation					Total Ft2	24000			
Lot Begin Sta/Offset/L-R		12000	12	RT	Length	2000			
Lot End Sta/Offset/L-R		14000	24	RT	Width	12			
# Sublots		10							
Sub Lot #	Location	Temp (°F)	Wet Dens pcf	Marshall Rice Dens	% Rel Compact	Pass Fail	Randoms	Sublot Beg/End	Test Offset
1	Location 1 Test Sta 120+0 - 23' RT	78	145.0	149.5	97.0%	Pass ▼	0.0039 0.9400	12000 12200	23 RT
2	Location 2 Test Sta 123+72 - 15' RT	68	146.0	149.5	97.7%	Pass ▼	0.8643 0.3123	12200 12400	15 RT
3	Location 3 Test Sta 124+98 - 22' RT	76	147.0	149.5	98.3%	Pass ▼	0.4934 0.8385	12400 12600	22 RT
4	Location 4 Test Sta 127+81 - 17' RT	62	154.5	149.5	103.3%	Fail ▼	0.9068 0.4658	12600 12800	17 RT
5	Location 5 Test Sta 128+74 - 14' RT	67	152.3	149.5	101.9%	Fail ▼	0.3749 0.1788	12800 13000	14 RT
6	Test Sta 131+61 - 23' RT			149.5		▼	0.8093 0.9459	13000 13200	23 RT
7	Test Sta 132+25 - 21' RT			149.5		▼	0.1294 0.7539	13200 13400	21 RT
8	Test Sta 134+12 - 19' RT			149.5		▼	0.0601 0.6036	13400 13600	19 RT
9	Test Sta 137+40 - 19' RT			149.5		▼	0.7032 0.6574	13600 13800	19 RT
10	Test Sta 139+53 - 14' RT			149.5		▼	0.7696 0.1912	13800 14000	14 RT



HMA Placement Inspection and Check List

Report Date: 6/19/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 12/7/16

Project No: Star-Lab1

Client Project No: 45678

Crew Foreman: JOE

Project: ZMR Lab Testing and Inspection

Pay Item:

HMA Mix: HMA -1.5-A PG 64-34 Staker

Material Type: UDOT HMA

Location: Location Details

Begin Sta/Off: 120+00 12RT

Lot End Sta/Off: 140+00 24RT

Area of Concern	Accept Report	Comments
MIX/MTLS DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken for Mix strength and Aggregate gradation •	Report	Some required Submittals were missing.;
PRE-PLACEMENT • Receiving surface clean, free of deleterious materials deformities and potholes • Proper Tack coat application • Verify placement depth and width per plan •	Accept	Utility covers, monuments and other existing features have NOT been located referenced and protected.;
PLACEMENT EQUIPMENT & METHOD • Proper Paver used • Smooth, even placement at proper temperature • Steady speed • proper edge slopes or match to curb and gutter	Accept	The Paving machine failed.;
POST-PLACEMENT • Compacted using proper equipment and rolling technique • Small vibratory compactor was used as needed • Density and thickness cores taken • Longitudinal and transverse joints offset • Protected from traffic during cure	Accept	Compaction was done using unacceptable equipment.;

Weather: Overcast

Temperature: Mild 50 - 65

Quantity Installed (Ton): 34

Inspection Duration (Hours): 4

Acceptance Decision: Pass

General Comments: My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/3c5fa238-1dbb-457b-7540-88077a6891f9>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Placement Inspection - Density Grid

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.



HMA Field Densities

AASHTO: T355, ASTM: 2950

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Project No: Star-Lab1

Client Project No: 45678

Pay Item: Pay Item

Location: Location Details

Project: ZMR Lab Testing and Inspection

Density Gauge: Troxler 04

Model: 4649 B

S/N: 234567

Calibration Date: 6/4/14

Std Count-MS: 346

Std Count-DS: 457

Offset:

Report Date: 6/19/2019

Date Tested: 12/7/16

Mix Design: 15-2H-07-4-019

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Layer Thickness: 6

Mode Depth: 3

Specified Density: 92

Lift #: 1

Sub Lot #	Location Detail	Station Offset	Temp (°F)	Wet Density pcf	Marshall Bulk Density	% Relative Compaction	Pass Fail
1	Location 1	Test Sta 120+0 - 23'RT	78	145	149.5	97	Pass
2	Location 2	Test Sta 123+72 - 15'RT	68	146	149.5	97.7	Pass
3	Location 3	Test Sta 124+98 - 22'RT	76	147	149.5	98.3	Pass
4	Location 4	Test Sta 127+81 - 17'RT	62	154.5	149.5	103.3	Fail
5	Location 5	Test Sta 128+74 - 14'RT	67	152.3	149.5	101.9	Fail
6							
7							
8							
9							
10							

Average 99.6

Comments: My Comments

Technician: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/b533147d-19be-4094-4ded-22abfa4b16b9>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Placement Inspection - Density Grid / HMA Density Grid

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Sample for Lab Tests

IMPORTANT!! - This assignment generates a **SAMPLE** that is started in the field and Completed in the LAB. Field personnel should mark Progress above to **STARTED**. Lab Personnel will mark it **Complete** once the sample is **RECEIVED** and processed at the lab

Sample Date	March 11, 2017 18:15	Now	Clear
Sampled/Barcode	2345		
Sampled By Client?	☒ Yes ☐ No		
Location Map Marker	Here Map Clear		
Pay Item (Select)	Search or browse		
Pay Item WO PO	Test2		
HMA Mix	Select Clear		
Mix Design (If No Mix Design Resc.)	Mix Design		
Supplier (If No Mix Design Resc.)	Supplier		
Pit/Plant (If No Mix Design Resc.)	Plant		
Aggregate Grade Criteria	UDOT Agg Fine Sand Select Clear		
Agg Plus Minus Target Criteria	HMA Agg 1/2" Staker Pt East 4/15 Select Clear		
Sample Type	Random-Independent		
Split Sample ID			
Random 1	0.1518		
Random 2	0.4925		

Test Station Grid

Sublot Station Begin	6	Sublot Offset Begin	12	LT
Sublot Station End	10	Sublot Offset End	15	LT
Test Station	6	Test Offset	11	LT

Location/Feature	Over Here
Elevation Desc.	4587

Temperature																							
Tonnage																							
Raw Height Data																							
Required Tests	<table> <tr> <td>1 pt Marshall 50 Blows (B32)</td> <td>Incineration Only</td> </tr> <tr> <td>1 pt Marshall 75 Blows (B32)</td> <td>Incineration Correction 5 pt (B71)</td> </tr> <tr> <td>Asphalt Binder Content & Sieve</td> <td>Lotman</td> </tr> <tr> <td>Bulk Specific Gravity</td> <td>Marshall 50 Unit Wt Only</td> </tr> <tr> <td>Core Density (B07)</td> <td>Marshall 75 Unit Wt Only</td> </tr> <tr> <td>Gyratory (Field one Point) (B49)</td> <td>Moisture Content (B68)</td> </tr> <tr> <td>Hamburg Wheel Tracker (UDOT)</td> <td>PG Binder</td> </tr> <tr> <td>HMA Daily Lot Assessment</td> <td>Volumetric Mix Design APWA</td> </tr> <tr> <td>HMA Full SubLot</td> <td>Volumetric Mix Design w/Verification (UDOT)</td> </tr> <tr> <td>Maximum Density (Rice) (B24)</td> <td>Volumetric 1 pt (Lab Mix)</td> </tr> <tr> <td>Incineration Grade (B14)</td> <td>Volumetric 1 pt w/Rice (Field Mix)</td> </tr> </table>	1 pt Marshall 50 Blows (B32)	Incineration Only	1 pt Marshall 75 Blows (B32)	Incineration Correction 5 pt (B71)	Asphalt Binder Content & Sieve	Lotman	Bulk Specific Gravity	Marshall 50 Unit Wt Only	Core Density (B07)	Marshall 75 Unit Wt Only	Gyratory (Field one Point) (B49)	Moisture Content (B68)	Hamburg Wheel Tracker (UDOT)	PG Binder	HMA Daily Lot Assessment	Volumetric Mix Design APWA	HMA Full SubLot	Volumetric Mix Design w/Verification (UDOT)	Maximum Density (Rice) (B24)	Volumetric 1 pt (Lab Mix)	Incineration Grade (B14)	Volumetric 1 pt w/Rice (Field Mix)
1 pt Marshall 50 Blows (B32)	Incineration Only																						
1 pt Marshall 75 Blows (B32)	Incineration Correction 5 pt (B71)																						
Asphalt Binder Content & Sieve	Lotman																						
Bulk Specific Gravity	Marshall 50 Unit Wt Only																						
Core Density (B07)	Marshall 75 Unit Wt Only																						
Gyratory (Field one Point) (B49)	Moisture Content (B68)																						
Hamburg Wheel Tracker (UDOT)	PG Binder																						
HMA Daily Lot Assessment	Volumetric Mix Design APWA																						
HMA Full SubLot	Volumetric Mix Design w/Verification (UDOT)																						
Maximum Density (Rice) (B24)	Volumetric 1 pt (Lab Mix)																						
Incineration Grade (B14)	Volumetric 1 pt w/Rice (Field Mix)																						
	Marshall 75 Blows (B32); Core Density (B07); Incineration Only																						
Comments	My Comments																						
Lab Where Sample was Received(Entered by Lab)	My Awesome Co. SLC Lab Select Clear																						

HMA Incineration Grade

Reports

Assignment Summary

Web-HMA Incineration Gradation

Print-HMA Incineration Gradation Report

Test Date February 06, 2019

Today

Clear

Asphalt Binder Content

A- Before Incineration Wt (g)	54.00	K-Percent Loss (From Ticket)	58
B - After Incineration Wt (g)	10.00	L-Temp Comp (From Ticket)	54
C - Pan Wt (g)	14.00	M-Incineration Correction Factor (From Ticket)	2
D - Total Agg Wt Before Incineration (g)	40.00	N-Weight Loss (From Ticket)	5
E - Total Agg Wt After Incineration (g)	-4.00	O-Calibrated Asphalt Content (K-L-M)	2.00
F - Wt of Asphalt (Weigh Back) A - B (g)	44.00	Incinerator Temperature, C°	116
G - Incineration Correction Factor (Weigh Back)	1.00		
H - Gross Percent Asphalt [F/D] (%)	110.00%	R-% Moisture Content in HMA	0.04%
I - Adjusted Asphalt Content F - G - H (%)	9.96%	Reported Asphalt Content (O-R)	2.00

Sieve

Before Wash Wt.	54.0	Pan No:						
After Wash Wt.	75.0							
Sieve Size	Cumulative Weight Retained (g)	Cu. Retained (%)	Cu. Passing (%)*	Target	Plus-Minus	Spec Range Min%	Spec Range Max%	Pass Fail
1"	13.0	24%	76%					
3/4"	24.2	45%	55%	100	6	94	100	Fail
1/2"	31.5	58%	42%	91				
3/8"	39.5	73%	27%	76				
#4	45.0	83%	17%	52				
#8	52.5	97%	3%	32	5	27	37	Fail
#16	64.3	119%	-19%	22				
#50	69.4	129%	-29%	13	3	10	16	Fail
#200	71.8	133.0%	-33.0%	6.8	2	4.8	8.8	Fail
-200 Pan	55.0							
-200 Wash Out	-21.0							
Total Dry Mass	34.0							

Tons

42

Station

4

Temp (°F)

75

Time February 08, 2019 12:30

Now

Clear

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Remarks

Remarks

Technician Signoff ☒ Jenelle Wilcox 2/27/19 12:35Manager Signoff ☐ Unsigned☒ Sign as Jenelle Wilcox

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Binder Content, Sieve Analysis

AASHTO: T308, T30

Client: British Lanolium
Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505

Report Date: 6/7/2019
Date Sampled: 4/2/16
Date Tested: 8/1/16

Sample No.: 6345
Project No: BR-HWN
Client Job No: 562355
Project: Bedrock Highway Design Build
Pay Item: Pay Item
Location: Over Here

Mix Design: HMA -1.5-A PG 64-34 Staker
Supplier: Bedrock Gravel and Stone
Pit/Plant: Point East Hot Plant
Temp Compensation: 0.1
Incinerator Temp C°: 539.0

Gross Incineration Loss: 4.24% Aggregate Corr. Factor: 0.13% Corrected Binder Content: 4.11%

Sieve Size	Accumulated Wt. Retained (Grams)	Individual Percent Retained (%)	Accumulated Percent		Target	Spec Range Min (%)	Spec Range Max (%)	Pass Fail
			Retained (%)	Percent Passing (%)				
1"	0.0	0.0	0.0	100.0	75		83	Fail
3/4"	0.0	0.0	0.0	100.0	100	94	100	Pass
1/2"	283.8	14.2	14.2	85.8	91			
3/8"	697.2	34.8	34.8	65.2	76			
#4	1,228.5	61.3	61.3	38.7	52			
#8	1,511.9	75.4	75.4	24.6	32	27	37	Fail
#16	1,679.3	83.7	83.8	16.2	22			
#50	1,795.3	89.5	89.5	10.5	13	10	16	Pass
#200	1,880.0	93.7	93.8	6.2	6.8	4.8	8.8	Pass
Pan	1,899.9	94.7	94.8	5.2				
Dry Original Wt:	2,004.9							
Washed Wt:	1,900.5							
- No. 200 W.O.:	104.4							
- No. 200 S.O.:	19.9							
- No. 200 Total:	124.3							

Comments: My Remarks

Technician: Greg Putnam

Manager:

Digital Signature By User Login

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/977d9cd4-818e-4a15-a38c-e8f0b5ba5d2f>

Path:Task/Form HMA / Super Pave / HMA Sample For Lab Tests / Asphalt Binder Content & Sieve

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA PG Binder

Reports

- 🔍 Assignment Summary
- 🔍 Web-HMA PG Binder Report
- 🔍 Prnt-H M A PG Binder Report

Test Date	February 13, 2019	🕒 Today	🗑 Clear
Results	34.5		
Pass/Fail	Pass Fail Eng. Judge In Progress		
Remarks	My Commnets		



Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

PG Binder Test

AASHTO: ???

Report Date: 6/7/2019

Date Sampled: 3/11/17

Date Tested: 3/13/17

Sample No: 2345

Project No: Star-Lab1

Client Job No: 45678

Mix Design: HMA -1.5-A PG 64-34 Staker

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Project: ZMR Lab Testing and Inspection

Pay Item: Test2

Location: Over Here

PG Binder Result: 34.5

Remarks: My Commnets

Technician: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/0440027b-0e42-49ab-26dc-15fdb8d68ae>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 PGBinder GP 3/13

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Rice Specific Gravity

Reports

Assignment Summary

Web-HMA Rice Specific Gravity

Print-HMA Rice Specific Gravity

Test Date February 20, 2019

Today

Clear

Rice Specific Gravity

AASHTO T209 Rice Specific Gravity

Sample:	A	B
Weight of Asphalt (A):	56.0	75.0
Flask w/ Water (B):	2.0	3.0
Flask and Mix (C):	22.0	24.0
Volume:	36.0	54.0
Rice Specific Gravity, $Gr = A/[A+B-C]$:	1.556	1.389
HMA Density $= Gr * 62.245$:	96.8	86.5
Average SPG of Sublot:	1.472	
Average Density (PCF):	91.6	

Pass/Fail

Pass

Fail

Eng. Judge

In Progress

Remarks

My Remarks

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Rice Specific Gravity

AASHTO: T209

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Report Date: 7/30/2019

Date Sampled: 3/11/17

Date Tested: 2/20/19

Sample No.: 2345

Project No: Star-Lab1

Client Job No: 45678

Mix Design: HMA -1.5-A PG 64-34 Staker

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Project: ZMR Lab Testing and Inspection

Pay Item: Test2

Location: Over Here

Sample:	A	B
Weight of Asphalt (A):	56.0	75.0
Flask w/ Water (B):	2.0	3.0
Flask and Mix (C):	22.0	24.0
Volume:	36.0	54.0
Rice Specific Gravity, $Gr = A/[A+B-C]$:	1.556	1.389
HMA Density = $Gr * 62.245$:	96.8	86.5
Average SPG of Sublot:	1.472	
Average Density (PCF):	91.6	

Remarks: My Remarks

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/f34d37d6-215e-4ff6-19d1-e9c361bc5cb8>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 RiceSpecGrav GP 3/13

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Incineration Grade Full Sublot

Reports

Assignment Summary	Web-HMA Incineration Grade Full Sublot	Web-HMA Incineration Grade Full UDOT
Web-HMA Incineration Grade Short	Pmt-H M A Incin Grade Full	Pmt-H M A Full Test Set
Web-HMA Incineration Grade Volumetric	Pmt-H M A Incineration Grade Volumetric	

Test Date April 12, 2019

Today

Clear

Test Method Standard

ASTM

AASHTO

Asphalt Binder Content/w

Moist

Weigh Back Method

C - Basket Wt (g)	3,282.1	1,598.9	D - Total Agg Wt Before Incineration (g) Sample Only
A - Before Incineration Wt (g) Sample + Basket	4,881.0	1,525.2	E - Total Agg Wt After Incineration (g) Sample Only
B - After Incineration Wt (g) Sample + Basket	4,807.3	73.7	F - Wt of Asphalt (Weigh Back) A - B (g)
G - Incineration Correction Factor (Weigh Back)	0.13	4.61%	H - Gross Percent Asphalt [F/D] (%)
Basket No	g	3.47%	I - Adjusted Asphalt Content H-G-R (%)

From the Ticket

K-Percent Loss (From Ticket)	5.14	
L-Temp Comp (From Ticket)	0.09	
M-Incineration Correction Factor (From Ticket)	0.13	3.91
N-Weight Loss (From Ticket)	91.0	
Incinerator Temperature, C°	538	

Moisture Content

Tare	500.0	
Wet Wt +Tare	1,500.0	1.01%
Dry Wt +Tare	1,490.0	4.92

R-% Moisture Content in HMA

Reported Asphalt Content (O or I)

Sieve

Before Wash Wt.	1,525.0	Pan No:						
After Wash Wt.	1,434.5							
Sieve Size	Cumulative Weight Retained (g)	Cu. Retained (%)	Cu. Passing (%)*	Target	Plus-Minus	Spec Range Min%	Spec Range Max%	Pass Fail
1"	0.0	0%	100%	75	8	67	83	Fail
3/4"	0.0	0%	100%	100	6	94	100	Pass
1/2"	117.7	8%	92%	91				
3/8"	335.7	22%	78%	76				
#4	727.1	48%	52%	52				
#8	1,006.8	66%	34%	32	5	27	37	Pass
#16	1,197.5	79%	21%	22				
#50	1,320.1	87%	13%	13	3	10	16	Pass
#200	1,418.2	93.0%	7.0%	6.8	2	4.8	8.8	Pass
-200 Pan	1,434.3							
-200 Wash Out	90.5							
Total Dry Mass	1,524.8							

Rice Bulk VMA

Rice Specific Gravity (AASHTO T209)		A	B
Pan No:	E	R	
Weight of Asphalt (A):	1,728.3	1,817.5	
Flask w/ Water (B):	7,451.2	7,407.7	
Flask and Mix (C):	8,479.5	8,488.1	Average
Volume:	700.0	737.1	718.6
Rice Specific Gravity, Gmm = A/[A+B-C]:	2.469	2.466	2.467
HMA Density =Gmm*62.245:	153.68	153.48	153.58

Gyratory Compaction - - - Pan No:		F	g
@ N initial:	0.0	0.0	
@ N des:	115.8	115.5	
@ N max:			

Bulk Specific Gravity		A	B
Weight of Dry Specimen in Air A (g):	4,655.0	4,655.2	
Weight of Specimen in Water C (g):	2,678.6	2,677.2	
Weight of SSD Specimen in Air B (g):	4,637.9	4,676.0	Average
Bulk Specific Gravity, Gmb = A/[B-C]:	2.376	2.329	2.352
HMA Density =Gmb*62.245:	147.88	144.97	146.43
%AV - Total Air Voids:	3.8%	5.5%	4.7%
Specific Gravity of Agg Gsb (From Mix):	2.631		
Asphalt Content %AC:	4.92		Average
%VMA = 100- (((100-%AC)*Gmb)/Gsb):	14.14	15.83	15.0

Adjusted Asphalt Content 4.92

Reporting Option

Weigh Back Method

Incinerator Ticket

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Remarks

Some remarks

Technician Signoff

☐ Unsigned☒ Sign as Jenelle Wilcox

Manager Signoff

☐ Unsigned☒ Sign as Jenelle Wilcox



Star Fleet Construction
3166 Decker Dr. Baytown, Texas 77520

Binder Content, Sieve Analysis

ASTM: D6926, D6927, D5444 AASHTO: T308, T30, T329

Sample No.: 2345
Project No: Star-Lab1
Client Job No: 45678
Project: ZMR Lab Testing and Inspection
Pay Item: Test2
Location: Over Here

Report Date: 6/21/2019
Date Tested: 3/11/17
Date Tested: 4/12/19
Mix Design: HMA -1.5-A PG 64-34 Staker
Supplier: Bedrock Gravel and Stone
Pit/Plant: Point East Hot Plant

WEIGH BACK METHOD		INCINERATOR TICKET INFORMATION	
Before Incineration Weight w/ Pan	4881	Percent Loss: (from Ticket)	5.14
After Incineration Weight w/ Pan	4807.3	Temp Comp: (from Ticket)	0.09
Pan Wt.	3282.1	Correction Factor: (from Ticket)	0.13
Agg Wt. Before Incineration:	1598.9	Weight Loss: (from Ticket)	91
Agg Wt. After Incin. (Weigh back)	1525.2	Calibrated Asphalt Content: (from Ticket)	3.90989899
Wt. of Asphalt (Weigh back)	73.7	Incinerator Temperature, C°	538
Correction Factor (Weigh back)	0.13		
Gross Percent Asphalt	4.61%	Moisture Content	0.01
Adjusted Asphalt Content	3.47%	Reported Asphalt Content	4.92

Sieve Size	Accumulated Wt. Retained (Grams)	Individual Percent Retained (%)	Accumulated Percent Retained (%)	Accumulated Percent Passing (%)	Target PlusMinus	Spec Range	Pass Fail
1"	0.0	0.0%	0.0%	100%	75 ±8	67 - 83	Fail
3/4"	0.0	0.0%	0.0%	100%	100 ±6	94 - 100	Pass
1/2"	117.7	7.7%	7.7%	92%	91		
3/8"	335.7	14.3%	22.0%	78%	76		
#4	727.1	25.7%	47.7%	52%	52		
#8	1,006.8	18.3%	66.0%	34%	32 ±5	27 - 37	Pass
#16	1,197.5	12.5%	78.5%	21%	22		
#50	1,320.1	8.0%	86.6%	13%	13 ±3	10 - 16	Pass
#200	1,418.2	6.4%	93.0%	7.0%	6.8 ±2	4.8 - 8.8	Pass
Pan	1,434.3	1.1%	94.1%				

		Max Density (RICE)		Bulk Specific Gravity			
		A	B	A	B		
Dry Original Wt:	1,525.0	Wt of Asphalt:	1728.3	1817.5	Dry Wt.	4655	4655.2
Washed Wt:	1,434.5	Flask+Water:	7451.2	7407.7	SSD Wt.	4637.9	4676
- No. 200 W.O.:	90.5	Flask and Mix:	8479.5	8488.1	Wt. in Water.	2678.6	2677.2
- No. 200 S.O.:	16.1	Volume:	700	737.1	Gmb	2.376	2.329
- No. 200 Total:	106.6	Specific Gravity:	2.469	2.466	Unit Wt	147.9	145.0
Compaction (Height @ No. of Gyrations)		HMA Density:	153.7	153.5	%Air Voids	3.77%	5.55%
il 0	0			%VMA		14.1	15.8
s 115.8	115.5						

Comments: Some remarks

Technician: Jenelle Wilcox

Digital Signature By User Login

Manager: Jenelle Wilcox

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/a3f278c9-1a9c-4589-96eb-1b78d803f8b1>

ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMAACContentSieveRiceBulkVMA 3/28 JW

Path: Task/Form

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.



Binder Content, Sieve Analysis

ASTM: D6307, D5444, D2041, D2726, D6925, D3203

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 6/21/2019

Date Sampled: 3/11/17

Date Tested: 4/12/19

Mix Design: HMA -1.5-A PG 64-34 Staker

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Sample No.: 2345

Project No: Star-Lab1

Client Job No: 45678

Project: ZMR Lab Testing and Inspection

Pay Item: Test2

Location: Over Here

Sample Mass	1598.9	Moisture Tare	500.0
Basket Mass	3282.1	Wet Wt +Tare	1,500.0
Sample Mass + Basket	4881	Dry Wt +Tare	1,490.0
After Ignition Mass	1525.2	Moisture Content	0.01
After Ign Mass+Basket	4807.3	Incinerator Temperature C°	538
Percent Binder (Ticket)	5.14	Wt. of Asphalt (Weigh back)	73.7
Temp Comp (Ticket)	0.09	Gross Percent Asphalt	4.61%
Correction Factor	0.13	Reported Asphalt Content	4.92
Adjusted AC Content:	3.47%		

Sieve Size	Accumulated Wt. Retained (Grams)	Individual Percent Retained (%)	Accumulated Percent Retained (%)	Accumulated Percent Passing (%)	Target PlusMinus	Spec Range	Pass Fail
1"	0.0	0.0	0.0	100.0	75 ±8	67 - 83	Fail
3/4"	0.0	0.0	0.0	100.0	100 ±6	94 - 100	Pass
1/2"	117.7	7.7	7.7	92.3	91		
3/8"	335.7	14.3	22.0	78.0	76		
#4	727.1	25.7	47.7	52.3	52		
#8	1,006.8	18.3	66.0	34.0	32 ±5	27 - 37	Pass
#16	1,197.5	12.5	78.5	21.5	22		
#50	1,320.1	8.0	86.6	13.4	13 ±3	10 - 16	Pass
#200	1,418.2	6.4	93.0	7.0	6.8 ±2	4.8 - 8.8	Pass
Pan	1,434.3	1.1	94.1				

Dry Original Wt: 1,525.0 **Washed Wt:** 1,434.5 **- No. 200 W.O.:** 90.5 **- No. 200 S.O.:** 16.1 **- No. 200 Total:** 106.6

Bulk Specific Gravity

Max Density (RICE)

	Gyo Height	Dry Wt.	SSD	Mass of Pyc Filled w/H2 O	Mass of Mix in Air	Mass of Pyc + Mix +H2 O	%Air Voids
A	115.8	4655	4637.9	7451.2	1728.3	8479.5	3.77%
B	115.5	4655.2	4676	7407.7	1817.5	8488.1	5.55%
	Mass in Water	Gmb	Unit Wt	Volume	Gmm	Unit Wt.	%VMA
A	2678.6	2.376	147.9	700	2.469	153.7	14.1
B	2677.2	2.329	145.0	737.1	2.466	153.5	15.8

Comments: Some remarks

Technician: Jenelle Wilcox

Digital Signature By User Login

Manager: Jenelle Wilcox

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/a3f278c9-1a9c-4589-96eb-1b78d803f8b1>

ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMAACContentSieveRiceBulkVMA

Path:Task/Form 3/28 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.



Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Binder Content, Sieve Analysis

ASTM: D5444, D6307

Report Date: 6/21/2019

Date Sampled: 3/11/17

Date Tested: 4/12/19

Sample No.: 2345

Project No: Star-Lab1

Client Project No: 45678

Pay Item: Test2

Project: ZMR Lab Testing and Inspection

Location: Over Here

Mix Design: HMA -1.5-A PG 64-34 Staker

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Incinerator Temp C°: 538.0

Gross Incineration Loss:		4.61%	Aggregate Corr. Factor:		0.13%	Temperature Corr. Factor:		0.09%	Corrected Binder Content:		4.92%
Sieve Size	Accumulated Wt. Retained (Grams)	Individual Percent Retained (%)	Accumulated Percent Retained (%)	Accumulated Percent Passing (%)	Target	Spec Range Min (%)	Spec Range Max (%)	Pass	Fail		
1"	0.0	0.0	0.0	100.0	75	67	83		Fail		
3/4"	0.0	0.0	0.0	100.0	100	94	100		Pass		
1/2"	117.7	771.8	7.7	92.3	91						
3/8"	335.7	2,200.8	22.0	78.0	76						
#4	727.1	4,766.4	47.7	52.3	52						
#8	1,006.8	6,598.8	66.0	34.0	32	27	37		Pass		
#16	1,197.5	7,848.1	78.5	21.5	22						
#50	1,320.1	8,651.2	86.6	13.4	13	10	16		Pass		
#200	1,418.2	9,294.0	93.0	7.0	6.8	4.8	8.8		Pass		
Pan	1,434.3	9,399.1	94.1	5.9							
Dry Original Wt:		1,525.0									
Washed Wt:		1,434.5									
- No. 200 W.O.:		90.5									
- No. 200 S.O.:		16.1									
- No. 200 Total:		106.6									

Comments: Some remarks

Technician: Jenelle Wilcox

Digital Signature By User Login

Manager: Jenelle Wilcox

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/a3f278c9-1a9c-4589-96eb-1b78d803f8b1>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMAACContentSieveRiceBulkVMA 3/28 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.



VOLUMETRIC ONE POINT

ASTM: D6307, D5444, D2041, D2726, D6925, D3203

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 6/21/2019
Date Sampled: 3/11/17
Date Tested: 4/12/19
Mix Design: HMA -1.5-A PG 64-34 Staker
Supplier: Bedrock Gravel and Stone
Pit/Plant: Point East Hot Plant

Sample No: 2345
Project No: Star-Lab1
Client Project No: 45678
Project: ZMR Lab Testing and Inspection
Pay Item: Test2
Location: Over Here

GYRATORY COMPACTION (Height @ No. of Gyrations)

@ Ni : 0.0 0.0
 @ Nd : 115.8 115.5
 @ Nm : 0 0

INCINERATOR TICKET INFORMATION

Percent Loss: 5.14
Temp Comp: 0.09
Correction Factor (%): 0.13
Weight Loss: 91
Calibrated Asphalt Content: 3.909891
Incinerator Temperature (C°): 538
Moisture Content: 0.01
Reported Asphalt Content: 4.92

MAX DENSITY (RICE)

Average Specific Gravity: 2.467
Average HMA Density: 153.6

BULK SPECIFIC GRAVITY

Average Gmb: 2.352
Average Unit Wt: 146.4
Average Air Voids (%): 4.66
Average VMA (%): 15.0

Sieve Size	Individual Percent Retained (%)	Accumulated Percent Passing (%)	Target	Spec Range Min (%)	Spec Range Max (%)	Pass Fail
1"	0.0	100.0	75 ±8	67	83	Fail
3/4"	0.0	100.0	100 ±6	94	100	Pass
1/2"	7.7	92.3	91			
3/8"	14.3	78.0	76			
#4	25.7	52.3	52			
#8	18.3	34.0	32 ±5	27	37	Pass
#16	12.5	21.5	22			
#50	8.0	13.4	13 ±3	10	16	Pass
#200	6.4	7.0	6.8 ±2	4.8	8.8	Pass
Pan	1.1					
Dry Original Wt:	1,525.0					
Washed Wt:	1,434.5					
- No. 200 W.O.:	90.5					
- No. 200 S.O.:	16.1					
- No. 200 Total:	106.6					

Comments: Some remarks

Technician: Jenelle Wilcox
 Digital Signature By User Login

Manager: Jenelle Wilcox
 Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/a3f278c9-1a9c-4589-96eb-1b78d803f8b1>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMAACContentSieveRiceBulkVMA 3/28 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA 1 pt Marshall Asphalt Properties

Reports

- 🔍 Assignment Summary
- 🔍 Web-HMA Marshall 1 Pt.
- 🔍 Pmt-H M A1pt Marshall

Asphalt Properties

Test Date	April 12, 2019	📅 Today	🗑 Clear
Test Method Standard	ASTM AASHTO		
Lot No.	23		
Sublot No.	1		
Test Temperature	96		
Sample Type	Core Lab		
No of Blows	4		
Incinerated Binder Content	2.3		
Bulk Specific Gravity	2.450		
Unit Weight	134.7		
Stability	5		
Flow	3		
Air Voids %	2.8		
VMA	3.6		
Max Specific Gravity	2.300		
Max Unit Weight	138.6		

Gradation

Gradation Sample No.	2	
1	100	⬆ ⬇ ⬆
3/4	85	
1/2	56	
3/8	47	

#4	23
#8	17
#16	13
#50	3
#200	1
Pass Fail Eng. Judge	Pass Fail Eng. Judge In Progress
Remarks	Remarks

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Marshall One Point Summary

ASTM: D6926, D6927, D5444, D6307, D2041, D2726, D3203

Client: Star Fleet Construction

Report Date: 6/21/2019

Address: 3166 Decker Dr. Baytown, Texas 77520

Project No: Star-Lab1

Client Project No: 45678

Date Tested: 4/12/19

No of Blows: 4

Mix Design: HMA -1.5-A PG 64-34 Staker

Lot No: 23

Supplier: Bedrock Gravel and Stone

Sublot No: 1

Pit/Plant: Point East Hot Plant

Test Temp: 96

Pay Item: Test2

Sample Type: Core

Project: ZMR Lab Testing and Inspection

ASPHALT PROPERTIES

GRADATION

Sample Number	2345		Sample Number	2		
		Design Criteria	Sieve Size	% Passing	Spec Range Min %	Spec Range Max %
Asphalt Binder Content	2.30	70-100	1	100.0	67	83
Bulk Specific Gravity	2.450	70-90	3/4"	85.0	94	106
Unit Weight	134.7	60-80	1/2"	56.0	91	91
Stability	5	50-70	3/8"	47.0	76	76
Flow	3	30-50	#4	23.0	52	52
Air Voids %	2.8	20-35	#8	17.0	27	37
VMA	3.6	15-30	#16	13.0	22	22
Maximum Specific Gravity	2.300	10-20	#50	3.0	10	16
Maximum Unit Weight	138.6	6-11	#200	1.0	4.8	8.8

Technician: *Jenelle Wilcox*

Manager:

Digital Signature By User Login

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/7b8c7707-6c01-430f-b658-1b8a30faf92b>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMAMarshall1Pt 4/4 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Bulk Specific Gravity

Reports

Assignment Summary

Web-HMA Bulk Specific Gravity

Print-HMA Bulk Specific Gravity Report

Test Date February 13, 2019

Today

Clear

Bulk Specific Gravity

AASHTO T166 Bulk Specific Gravity

Specific Gravity of Binder, G _{ac}		127.000
%AC		0.20%
Sample	A	B
Rice Value	25.00	10.00
Height of Specimen (in)	100.00	10.00
Weight of Dry Specimen in Air A (g)	55.00	57.00
Weight of SSD Specimen in Air B (g)	57.00	59.50
Weight of Specimen in Water C (g)	2.00	1.00
Bulk Specific Gravity, G _a = A/[B-C]	100%	97%
%AV - Total Voids in Mix	0%	0%
%VMA = [%AV*(100-%AC)]/G _a	1%	1%

Gyratory Compaction

(Height @ No. of Gyration)

@ N initial	390.0	4.0
@ N des	490.0	130.0
@ N max	100.0	270.3

Remarks

Remarks Here



Bulk Specific Gravity

AASHTO: T166

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Report Date: 7/30/2019

Date Sampled: 3/11/17

Date Tested: 2/13/19

Mix Design: HMA -1.5-A PG 64-34 Staker

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Project: ZMR Lab Testing and Inspection

Pay Item: Test2

Location: Over Here

Sample No.: 2345

Project No: Star-Lab1

Client Job No: 45678

Specific Gravity of Binder, Gac	127.0	
%AC	0.2	
Sample	A	B
Rice Value	25.0	10.0
Height of Specimen (in)	100.0	10.0
Weight of Dry Specimen in Air A (g)	55.0	57.0
Weight of SSD Specimen in Air B (g)	57.0	59.5
Weight of Specimen in Water C (g)	2.0	1.0
Bulk Specific Gravity, $G_a = A/[B-C]$	1.000	0.974
%AV - Total Voids in Mix	0.01	0.01
%VMA = $AV + [(\%AC * G_a) / G_{ac}]$	0.010	0.012

Gyratory Compaction (Height @ No. of Gyration)

@ N initial	390.0	4.0
@ N des	490.0	130.0
@ N max	100.0	270.3

Remarks: Remarks Here

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/eaf09308-35c0-4286-b185-0d0fbefa65bd>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 HMABulkSpecGrav 5/15 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Fractured Faces

Reports

Assignment Summary

Web-HMA Fractured Faces Report

Print - HMA Fractured Faces Report

Test Date August 12, 2019 10:50

Now

Clear

Test Method Standard

ASTM

AASHTO

Fractured Faces

Line	A	B	C	D	E	F
Description	1 Fractured Face	2 or More Fractured Faces	Questionable 2 Faces	Questionable 1 Face	No Fracture	Total Mass (Sum of A through E)
Particle Mass	50.0	1,161.9	0.0	0.0	7.9	1,219.8
% Fracture (P)	99.4	95.3				

Notes:

1. ASTM does not provide for questionable particles. You must simply decide!
2. ASTM defines a fractured face as one that has a projected area at least one fourth that of the maximum projected area of the particle.
3. ASTM says to perform the test separately for each number of fractured faces required. If, for example, there is a requirement of 95% with 1 or more fractured faces and 90% with 2 or more fractured faces, one should first perform the two or more fractured faces, followed by the determination for one or more.

Nominal Maximum Aggregate Size	Minimum Sample Mass	
	ASTM D 5821	AASHTO TP 61
1 1/2"	7500	2500
1"	3000	1500
3/4"	1500	1000
1/2"	500	700
3/8"	200	400

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Remarks

Some remarks

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Fractured Faces

ASTM: D5821

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 8/27/2019
Date Sampled: 3/11/2017
Date Tested: 8/12/2019

Mix Design: HMA -1.5-A PG 64-34 Staker
Supplier: Bedrock Gravel and Stone
Pit/Plant: Point East Hot Plant
Project: ZMR Lab Testing and Inspection
Pay Item: Test2
Location: Over Here

Sample No.: 2345
Project No: 012225
Client Project No: 45678

SUMMARY OF TEST RESULTS

One or more fracture faces (%): 99.4
Two or more fracture faces (%): 95.3

Remarks: Some remarks

Technician: *Jenelle Wilcox*

Manager:

Digital Signature By User Login

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/a5c5eb92-3580-446e-9820-8850e85199b7>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Sample For Lab Tests / Star-Lab1 TwoFracturedFaces 8/12 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Cores w/Thickness & Density

Reports

Assignment Summary

Pmt-Compressive Strength of Drilled Cores

Test Date

March 5, 2019

Today

Clear

Date Sample Received

March 2, 2019

Today

Clear

Curing Type

Wet

Dry

Curing Cycle Start Date

May 19, 2019

Today

Clear

Curing Cycle Finish Date

May 24, 2019

Today

Clear

Capping Type

Sulfur

Long Axis Orientation

Vertical

Horizontal

Compressive Strength of Drilled Cores

Core #	Core Weight lbs.	Diameter Inches	Height AVG	Height meas. #1	Height meas. #2	Height meas. #3	Height meas. #4	Height meas. #5	Area Inches ²	Length/ Diameter Ratio	Correction Factor	Load in Pounds	Corrected PSI	Identification		
1	2.5	3.00	4.99	5.00	4.90	5.12	5.00	4.95	7.07	1.66	0.96	10,000	1,360	#####		
2	2.5	3.25	5.04	5.25	4.90	5.12	5.00	4.95	8.30	1.55	0.96	10,000	1,160	#####		
3	2.5	3.15	5.01	5.10	4.90	5.12	5.00	4.95	7.79	1.59	0.96	10,000	1,230	#####		
4	2.5	3.20	5.02	5.15	4.90	5.12	5.00	4.95	8.04	1.57	0.96	10,000	1,190	#####		
5	2.5	3.10	5.04	5.25	4.90	5.12	5.00	4.95	7.55	1.63	0.96	10,000	1,270	#####		
6	2.5	3.25	5.01	5.10	4.90	5.12	5.00	4.95	8.30	1.54	0.96	10,000	1,160	#####		
7	2.5	3.10	5.02	5.15	4.90	5.12	5.00	4.95	7.55	1.62	0.96	10,000	1,270	#####		
8	2.5	3.00	4.99	5.00	4.90	5.12	5.00	4.95	7.07	1.66	0.96	10,000	1,360	#####		
9	2.5	3.00	4.99	5.00	4.90	5.12	5.00	4.95	7.07	1.66	0.96	10,000	1,360	#####		
10	2.5	3.00	4.99	5.00	4.90	5.12	5.00	4.95	7.07	1.66	0.96	10,000	1,360	#####		
Averages													1,272	psi	Standard Deviation, psi	84.7

Bulk Specific Gravity

Core #	Dry Weight	Suspended Weight	SSD Weight	Volume CC	Specific Gravity	Unit Weight PCF	Absorption Percent
1	13.2	14.2	14.8	0.6	22.000	1,373	12.1
2	13.0	14.0	14.6	0.6	21.667	1,352	12.3
3	13.3	14.1	14.5	0.4	33.250	2,075	9.0
4	13.4	14.2	14.7	0.5	26.700	1,666	10.1
5	13.1	14.3	14.6	0.3	43.667	2,725	11.5
6	13.2	14.1	14.7	0.6	22.000	1,373	11.4
7	13.3	14.3	14.5	0.2	66.500	4,150	9.0
8	13.4	14.4	14.5	0.1	134.000	8,362	8.2
9	13.1	14.1	14.3	0.2	65.500	4,087	9.2
10	13.4	14.2	14.4	0.2	67.000	4,181	7.5

Remarks

Remarks

ASTM C42

Client Star Fleet Construction

Address ISTC - Bay Town
3166 Decker Dr.
Baytown Texas, 77520

Project No 012225

Client Reference No 45678

Material Mix Design

Sample Source Plant

Project ZMR Lab Testing and Inspection

Location Detail Over Here

Date Tested 3/5/2019

Sample Rec. Date 3/2/2019**Date Sampled** 3/11/2017

Sampled By Star Fleet Construction

Curing Type Wet

Capping Type Sulfur

Long Axis Orientation Horizontal

Curing Cycle Start Date 5/19/2019

Curing Cycle Finish Date 5/24/2019

<u>Core #</u>	<u>Diameter</u> <u>Inches</u>	<u>Height</u>	<u>Area</u> <u>Inches^2</u>	<u>Length/</u> <u>Diameter</u> <u>Ratio</u>	<u>Correction</u> <u>Factor</u>	<u>Load in</u> <u>Pounds</u>	<u>Corrected</u> <u>PSI</u>	<u>Unit Wt</u>
1	3.00	4.99	7.07	3.00	0.96	10,000	1,360	1,372.80
2	3.25	5.04	8.30	3.25	0.96	10,000	1,160	1,352.00
3	3.15	5.01	7.79	3.15	0.96	10,000	1,230	2,074.80
4	3.20	5.02	8.04	3.20	0.96	10,000	1,190	1,666.08
5	3.10	5.04	7.55	3.10	0.96	10,000	1,270	2,724.80
6	3.25	5.01	8.30	3.25	0.96	10,000	1,160	1,372.80
7	3.10	5.02	7.55	3.10	0.96	10,000	1,270	4,149.60
8	3.00	4.99	7.07	3.00	0.96	10,000	1,360	8,361.60
9	3.00	4.99	7.07	3.00	0.96	10,000	1,360	4,087.20
10	3.00	4.99	7.07	3.00	0.96	10,000	1,360	4,180.80
Average							1,272	

<u>Core #</u>	<u>Identification</u>
1	jfnfnfnfnfnfnfnfnfnfn
2	jfnfnfnfnfnfnfnfnfnfn
3	jfnfnfnfnfnfnfnfnfnfn
4	jfnfnfnfnfnfnfnfnfnfn
5	jfnfnfnfnfnfnfnfnfnfn
6	jfnfnfnfnfnfnfnfnfnfn
7	jfnfnfnfnfnfnfnfnfnfn
8	jfnfnfnfnfnfnfnfnfnfn
9	jfnfnfnfnfnfnfnfnfnfn
10	jfnfnfnfnfnfnfnfnfnfn

Remarks Remarks

Technician *Jenelle Wilcox*

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119

System Link <http://demo.vahalo.com/assignments/6883E365-D7A0-4B69-50C7-03CA54A279DA>

System Path ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 CoresThickDens 12/13 JW

Page 141 of 215

Incineration Points

Reports

🔗 Assignment Summary

🔗 Pmt-Incineration Points Report

Test Date

April 22, 2019

📅 Today 🗑 Clear

Date Sample Received

April 19, 2019

📅 Today 🗑 Clear

Ignition Oven Process

Target Binder Content

5.15

WEIGHT BACK VALUES

Sample Number	1	2	3	4	5
Basket Tare	3,408.4	3,411.6	3,093.9		
Original Sample Weight	5,519.20	5,488.10	5,300.10		
Sample Wt. After Incineration	5,404.10	5,373.80	5,181.80		
Binder Content (Weigh Back)	5.45	5.50	5.36	0	0
Correction Value	0.30	0.35	0.21	0	0
Do you want to use this value	Yes ▼	Yes ▼	Yes ▼	▼	▼

TICKET VALUES

Percent Binder (from ticket)	5.41	5.45	5.38		
Correction Value	0.26	0.30	0.23	0	0
Do you want to use this value	Yes ▼	Yes ▼	Yes ▼	▼	▼

0.290.070.14

0.260.040.07

Sample Range Limit

0.15

Pass Fail Eng. Judge

Pass

Fail

Eng. Judge

In Progress

Remarks

Some Remarks


ACME
 WIDGETS LTD.

2/27/2020

Ignition Oven Calibration**AASHTO T-308****Client** Star Fleet Construction
Address ISTC - Bay Town
 3166 Decker Dr.
 Baytown Texas, 77520
Project No 012225**Client Reference No** 45678**Material** Mix Design**Sample Source** Plant**Project** ZMR Lab Testing and Inspection**Location Detail** Over Here**Date Tested** 4/22/2019**Sample Rec. Date** 4/19/2019**Date Sampled** 3/11/2017**Sampled By** Star Fleet Construction**IGNITION OVEN PROCESS**

Sample Number	1	2	3	4	5
WEIGHT BACK VALUES					
Basket Tare	3,408.4	3,411.6	3,093.9		
Original Sample Weight	5,519.20	5,488.10	5,300.10		
Sample Wt. After Incineration	5,404.10	5,373.80	5,181.80		
Binder Content (Weigh Back)	5.45	5.50	5.36		
Correction Value	0.30	0.35	0.21		
TICKET VALUES					
Percent Binder (from ticket)	5.41	5.45	5.38		
Correction Value	0.26	0.30	0.23		

***Note:** Weigh back is for informational purposes only**Incineration Oven Correction**
Weigh Back Correction Factor 0.29
Standard Deviation 0.07
Sample Range Limit 0.15
Sample Range 0.14

Oven Calibration Correction Factor 0.26
Standard Deviation 0.04
Sample Range Limit 0.15
Sample Range 0.07
Remarks Some Remarks**Technician** *Jenelle Wilcox*

Digital Signature By User Login

Manager

Digital Signature By User Login

Lab Address 2760 W. 3100 S. Salt Lake City Ut, 84119**System Link** <http://demo.vahalo.com/assignments/4991C777-12C8-447B-3A74-B92720F58186>**System Path** ZMR Lab Testing and Inspection / ASPHALTIC CONCRETE PAVING / 012225 IncinerationPoints 11/19 JW

2/27/2020 3:42:33 PM

HMA Density (10 Line Grid)

Reports

Assignment Summary

Web-HMA Density Report No Sta (Grid)

Pmt-H M A Density Report No Sta(Grid)

Web-HMA Density Rpt (Grid)

Pmt-H M A Density Rpt (Grid)

HMA placement details

Test Date November 1, 2018

Today

Clear

Location Map Marker

Here

Map

Clear

Location Details General Placements details here

Pay Item (Select) Search or browse

Pay Item/PO/WO Pay

Station Begin 12000

Station End 13000

Offset Begin 12

Offset Begin Left/Right

LT

RT

Offset End 24

Offset End Left/Right

LT

RT

Width (Ft) 12

Nuke Gauge Troxler 04

Select

Clear

Std Count-DS1 234

Std Count-DS2 645

Gauge Offset (If Used) 2

Installed HMA Mix Design HMA -1.5-A PG 64-34 Staker

Select

Clear

Mix Design (If No Mix Design

Design

Resc.)

Supplier (If No Mix Design

Supplier

Resc.)

Pit/Plant (If No Mix Design

Plant

Resc.)

HMA Acceptance Criteria

UDOT HMA

Select

Clear

Requirement Summary

Density 96-98%, Cores (Tons) <700=4; 701-900=6; 901-1100=8; >1100=10

Max Density from Mix Design

Marshall/Rice Density

149.6

Tested Layer Thickness (in)

3

Mode Depth (in)

2

Lift Number

1

Specified Compaction

Method

Rice

Marshall

Specified Density

92

HMA Densities

Automatic Sublot Calculation						Total Ft2	12000		
Lot Begin Sta/Offset/L-R		12000	12	RT	Length	1000			
Lot End Sta/Offset/L-R		13000	24	RT		Width	12		
# SubLots		10							
Sub Lot #	Location	Temp (°F)	Wet Dens pcf	Marshall Rice Dens	% Rel Compact	Pass Fail	Randoms	Sublot Beg/End	Test Offset
1	Location 1 Test Sta 120+42 - 12' RT	78	145.7	149.6	97.4%	Pass	0.4270	12000	12
2	Location 2 Test Sta 121+88 - 13' RT	91	145.8	149.6	97.5%	Pass	0.0405	12100	RT
							0.8812	12100	13
3	Location 3 Test Sta 122+62 - 23' RT	80	146.5	149.6	97.9%	Pass	0.1177	12200	RT
4							0.6300	12200	23
	Test Sta 123+33 - 23' RT			149.6			0.9252	12300	RT
5							0.3362	12300	23
	Test Sta 124+2 - 15' RT			149.6			0.9756	12400	RT
6							0.0206	12400	15
	Test Sta 125+25 - 22' RT			149.6			0.2846	12500	RT
7							0.2598	12500	22
	Test Sta 126+41 - 15' RT			149.6			0.8514	12600	RT
8							0.4125	12600	15
	Test Sta 127+98 - 16' RT			149.6			0.2581	12700	RT
9							0.9849	12700	16
	Test Sta 128+11 - 20' RT			149.6			0.3584	12800	RT
10							0.1166	12800	20
	Test Sta 129+58 - 15' RT			149.6			0.6986	12900	RT
							0.5813	12900	15
							0.2852	13000	RT



HMA Field Densities

AASHTO: T355, ASTM: 2950

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Project No: Star-Lab1

Client Project No: 45678

Pay Item: Pay

Location: General Placements details here

Project: ZMR Lab Testing and Inspection

Density Gauge: Troxler 04

Model: 4649 B

S/N: 234567

Calibration Date: 6/4/14

Std Count-MS: 234

Std Count-DS: 645

Offset: 2

Report Date: 5/14/2019

Date Tested: 11/1/18

Mix Design: 15-2H-07-4-019

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Layer Thickness: 3

Mode Depth: 2

Specified Density: 92

Lift #: 1

Sub Lot #	Location Detail	Temp (°F)	Wet Density pcf	Marshall Bulk Density	% Relative Compaction	Pass Fail
1	Location 1	78	145.7	149.6	97.4	Pass
2	Location 2	91	145.8	149.6	97.5	Pass
3	Location 3	80	146.5	149.6	97.9	Pass
4						
5						
6						
7						
8						
9						
10						

Average: 97.6

Technician: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/55c92db4-261c-4e6c-577f-195c813695e7>

Path:Task/Form

Manager: *Greg Putnam*

Digital Signature By User Login

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.



HMA Field Densities

AASHTO: T355, ASTM: 2950

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Project No: Star-Lab1

Client Project No: 45678

Pay Item: Pay

Location: General Placements details here

Project: ZMR Lab Testing and Inspection

Density Gauge: Troxler 04

Model: 4649 B

S/N: 234567

Calibration Date: 6/4/14

Std Count-MS: 234

Std Count-DS: 645

Offset: 2

Report Date: 6/21/2019

Date Tested: 11/1/18

Mix Design: 15-2H-07-4-019

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Layer Thickness: 3

Mode Depth: 2

Specified Density: 92

Lift #: 1

Sub Lot #	Location Detail	Station Offset	Temp (°F)	Wet Density pcf	Marshall Bulk Density	% Relative Compaction	Pass Fail
1	Location 1	Test Sta 120+42 - 12'RT	78	145.7	149.6	97.4	Pass
2	Location 2	Test Sta 121+88 - 13'RT	91	145.8	149.6	97.5	Pass
3	Location 3	Test Sta 122+62 - 23'RT	80	146.5	149.6	97.9	Pass
4		Test Sta 123+33 - 23'RT					
5		Test Sta 124+2 - 15'RT					
6		Test Sta 125+25 - 22'RT					
7		Test Sta 126+41 - 15'RT					
8		Test Sta 127+98 - 16'RT					
9		Test Sta 128+11 - 20'RT					
10		Test Sta 129+58 - 15'RT					

Average: 97.6

Technician: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/55c92db4-261c-4e6c-577f-195c813695e7>

Path:Task/Form

Manager: *Greg Putnam*

Digital Signature By User Login

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Inspection Checklist – HMA Placement

Reports

Assignment Summary	Web-Inspection Check list - HMA	Pmt-H M A Insp Chklist
Pmt-Inspection Check list - HMA		

HMA placement details

Inspection Date	December 7, 2016	Today	Clear
Location Map Marker	.	Here	Map
Location Details	Location Details		
Pay Item (Select)	Search or browse		
Pay Item PO WO	Pay Item		
Station Begin	12000		
Station End	14000		
Offset Begin	12		
Offset Begin Left/Right	LT	RT	
Offset End	24		
Offset End Left/Right	LT	RT	
Width (Ft)	12		
Default Nuke Gauge	Troxler 04	Select	Clear
Std Count-DS1	346		
Std Count-DS2	457		
Gauge Offset (If Used)			
Installed HMA Mix Design	HMA -1.5-A PG 64-34 Staker	Select	Clear
Mix Design (If No Mix Design Resc.)	Mix Design No		
Supplier (If No Mix Design Resc.)	Supplier		

Pit/Plant (If No Mix Design Resc.)	Pit Plant
HMA Acceptance Criteria	UDOT HMA Select Clear
Requirement Summary	Density 96-98%, Cores (Tons) <700=4; 701-900=6; 901-1100=8; >1100=10
Max Density from Mix Design	
Marshall/Rice Density	149.5
Default Curve / Lab#	
Tested Layer Thickness (in)	6
Mode Depth (in)	3
Lift Number	1
Crew Foreman	JOE

MIX/MTLS DOCUMENTED • Source/supplier verified • Submittals reviewed and Approved • Adequate lab test samples taken for Mix strength and Aggregate gradation •

Mix/Mtls Documentation Acceptable?	Accept	Report	NA
Mix/Mtls Documentation Remarks	HMA mix and it's ingredients were NOT verified as approved and acceptable. Some required Submittals were missing.		
	Supplier is not approved. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		
	Some required Submittals were missing.;		

PRE-PLACEMENT • Receiving surface clean, free of deleterious materials deformities and potholes • Proper Tack coat application • Verify placement depth and width per plan •

Pre-Placement Acceptable?	Accept	Report	NA
Pre-Placement Remarks	Tack coat was NOT properly applied. Tack coat was NOT allowed sufficient time to cure before HMA placement. Receiving surfaces were NOT clean and free of organic or deleterious material. Receiving surfaces were NOT free of deformities or potholes.		
	Utility covers, monuments and other existing features have NOT been located referenced and protected. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)		

Pre-Placement Remarks

Tack coat was NOT properly applied. Tack coat was NOT allowed sufficient time to cure before HMA placement.

Utility covers, monuments and other existing features have NOT been located referenced and protected.

Receiving surfaces were NOT clean and free of organic or deleterious material. Receiving surfaces were NOT free of deformities or potholes.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Utility covers, monuments and other existing features have NOT been located referenced and protected.;

PLACEMENT EQUIPMENT & METHOD • Proper Paver used • Smooth, even placement at proper temperature • Steady speed • proper edge slopes or match to curb and gutter

Placement Equip & Method Acceptable?

Accept Report NA

Placement Equip & Method Remarks

The Paving machine failed.

Proper Edge slope or Match to Curb and Gutter Was Not Accomplished.

HMA Placed using unacceptable technique.

Lab samples were collected from behind the paver and submitted for Sieve analysis and Asphalt content (##), Rice specific gravity and VMA(##).

HMA Placed at inconstant speed.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Mix temperature at time of placement was too low/high

The Paving machine failed.;

POST-PLACEMENT • Compacted using proper equipment and rolling technique • Small vibratory compactor was used as needed • Density and thickness cores taken • Longitudinal and transverse joints offset • Protected from traffic during cure

Post-Placement Acceptable?

Accept Report NA

Post-Placement Remarks

Compaction was done using unacceptable equipment.

Longitudinal and transverse joints were NOT offset as required.

Small vibratory compactor was NOT used in areas where large rollers were ineffective or could not reach.

Temperature and weather conditions were NOT acceptable for HMA placement.

Density and thickness cores were NOT randomly laid out and performed as required.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

HMA was NOT kept free of loading allowed to properly cure.

Compaction was done using unacceptable equipment.;

General Comments

My Comments

Weather Overcast

Temperature Mild 50 - 65

Inspection Duration (Hours) 4

Calc'd Qty Installed (SY) 2666.7

Calc'd Qty Installed (CY) 222.2

Calc'd Qty Installed (Ton) 448.5

Entered MS&T Qty Installed (Ton) 34

Acceptance Decision

Pass Fail Eng. Judge In Progress

HMA Placement - Density Test (10 Line Grid)

Specified Compaction

☒ Rice
 ☐ Marshall

Method

Specified Density

92

HMA Densities

Automatic Sublot Calculation						Total Ft2	24000		
Lot Begin Sta/Offset/L-R		12000	12	RT	Length	2000			
Lot End Sta/Offset/L-R		14000	24	RT		Width	12		
# SubLots		10							
Sub Lot #	Location	Temp (°F)	Wet Dens pcf	Marshall Rice Dens	% Rel Compact	Pass Fail	Randoms	Sublot Beg/End	Test Offset
1	Location 1	78	145.0	149.5	97.0%	Pass	0.0039	12000	23
	Test Sta 120+0 - 23' RT						0.9400	12200	RT
2	Location 2	68	146.0	149.5	97.7%	Pass	0.8643	12200	15
	Test Sta 123+72 - 15' RT						0.3123	12400	RT
3	Location 3	76	147.0	149.5	98.3%	Pass	0.4934	12400	22
	Test Sta 124+98 - 22' RT						0.8385	12600	RT
4	Location 4	62	154.5	149.5	103.3%	Fail	0.9068	12600	17
	Test Sta 127+81 - 17' RT						0.4658	12800	RT
5	Location 5	67	152.3	149.5	101.9%	Fail	0.3749	12800	14
	Test Sta 128+74 - 14' RT						0.1788	13000	RT
6				149.5			0.8093	13000	23
	Test Sta 131+61 - 23' RT						0.9459	13200	RT
7				149.5			0.2074	13200	21
	Test Sta 132+41 - 21' RT						0.7539	13400	RT
8				149.5			0.0601	13400	19
	Test Sta 134+12 - 19' RT						0.6036	13600	RT
9				149.5			0.7032	13600	19
	Test Sta 137+40 - 19' RT						0.6574	13800	RT
10				149.5			0.7696	13800	14
	Test Sta 139+53 - 14' RT						0.1912	14000	RT



HMA Field Densities

AASHTO: T355, ASTM: 2950

Star Fleet Construction

3166 Decker Dr. Baytown, Texas 77520

Project No: Star-Lab1

Client Project No: 45678

Pay Item: Pay Item

Location: Location Details

Project: ZMR Lab Testing and Inspection

Density Gauge: Troxler 04

Model: 4649 B

S/N: 234567

Calibration Date: 6/4/14

Std Count-MS: 346

Std Count-DS: 457

Offset:

Report Date: 5/14/2019

Date Tested: 12/7/16

Mix Design: 15-2H-07-4-019

Supplier: Bedrock Gravel and Stone

Pit/Plant: Point East Hot Plant

Layer Thickness: 45765

Mode Depth: 3

Specified Density: 92

Lift #: 1

Sub Lot #	Location Detail	Station Offset	Temp (°F)	Wet Density pcf	Marshall Bulk Density	% Relative Compaction	Pass Fail
1	Location 1	Test Sta 120+0 - 23'RT	78	145	149.5	97	Pass
2	Location 2	Test Sta 123+72 - 15'RT	68	146	149.5	97.7	Pass
3	Location 3	Test Sta 124+98 - 22'RT	76	147	149.5	98.3	Pass
4	Location 4	Test Sta 127+81 - 17'RT	62	154.5	149.5	103.3	Fail
5	Location 5	Test Sta 128+74 - 14'RT	67	152.3	149.5	101.9	Fail
6							
7							
8							
9							
10							

Average 99.6

Comments: My Comments

Technician: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/b533147d-19be-4094-4ded-22abfa4b16b9>

Path:Task/Form ASPHALTIC CONCRETE PAVING / HMA Placement Inspection - Density Grid / HMA Density Grid

Manager: *Greg Putnam*

Digital Signature By User Login

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

HMA Mat Cores

HMA Mat Core Sample

Pave Date	November 4, 2021	 Today	 Clear
Sample/Core Date	November 4, 2021	 Today	 Clear
Test Date	November 4, 2021	 Today	 Clear
SampleID/Barcode	002		
Lift Number (Int)	2		
Location Map Marker	 Here  Map  Clear		
Location	Location		
Pay Item (Select)	Search or browse 		
Pay Item WO PO	Pay Item WO PO		
Installed HMA Mix Design	HMA -1.5-A PG 64-34 Staker  Select  Clear		
Mix Design (If No Mix Design Resc.)	Mix Design (If No Mix Design Resc.)		
Supplier (If No Mix Design Resc.)	Supplier (If No Mix Design Resc.)		
Pit/Plant (If No Mix Design Resc.)	Pit/Plant (If No Mix Design Resc.)		
HMA Acceptance Criteria	DOT HMA  Select  Clear		
Requirement Summary	Density 96-98%, Cores (Tons) <700=4; 701-900=6; 90		
Rice Density from Mix Design	2.5		
Test Method	A B C D  Edit List		

1/5/2022

Sample Type	Random-Independent		 Edit List
Split Sample ID	Split Sample ID		
Specified Minimum	95		
Specified Total Thickness	5.5		

HMA Mat Core

Automatic Sublot Calculation					Total Ft2	
Lot Begin Sta/Offset/L-R	1200	12	RT	Length	700	
Lot End Sta/Offset/L-R	1900	24	RT	Width	12	
# Sublots	7			Water Wt Lbs/Ft3	62.245	

Sub Lot #	Location	Pan Wt grams	Dry + Pan grams	Dry Wt grams	SSD Wt grams	Imm Wt grams	Volume CC	Sp. Grav	Density Lbs/Ft3	Max Density Lbs/Ft3	Comp Percent	Thickness Inches	Total Thickness Inches	Absorption	Randoms	Sublot Beg/End	Test Offset
1	Test Sta 12+40 - 14'RT														0.4078	1200	14
	My Location	150.0	500.0	350	437.0	267.0	170.0	2.059	128.2	135.0	95.0	3.07	5.30	51.18	0.2117	1300	RT
2	Test Sta 13+28 - 13'RT														0.2823	1300	13
		150.0	478.0	328	412.0	254.0	158.0	2.076	129.2	135.0	95.7	3.34	5.70	53.16	0.1495	1400	RT
3	Test Sta 14+82 - 16'RT														0.8208	1400	16
		130.0	725.0	595	621.9	335.2	286.7	2.075	129.2	135.0	95.7	3.12	5.64	9.38	0.3518	1500	RT
4	Test Sta 15+13 - 22'RT														0.1319	1500	22
		130.0	731.0	601	677.5	391.6	285.9	2.102	130.8	135.0	96.9	3.01	5.68	26.76	0.8764	1600	RT
5	Test Sta 16+99 - 20'RT														0.9928	1600	20
		130.0	711.0	581	743.9	470.9	273.0	2.128	132.5	135.0	98.1	3.21	5.78	59.67	0.7407	1700	RT
6	Test Sta 17+9 - 22'RT														0.0951	1700	22
		130.0	695.0	565	865.9	595.9	270.0	2.093	130.3	135.0	96.5	3.02	5.65	111.44	0.9159	1800	RT
7	Test Sta 18+45 - 17'RT														0.4534	1800	17
		130.0	696.0	566	864.7	594.6	270.1	2.096	130.5	135.0	96.7	3.11	5.67	110.59	0.4695	1900	RT
8	Test Sta 0+0 - '						0	0	0	0	0			0	0.1945		
															0.2911		
9	Test Sta 0+0 - '						0	0	0	0	0			0	0.4967		
															0.0177		
10	Test Sta 0+0 - '						0	0	0	0	0			0	0.6272		
															0.3495		
Averages								2.09	130.08	135.00	96.37	3.13	5.63				

Test Count 7

Fail Count 1

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!



1/5/2022

HMA Mat Density Cores

AASHTO:T-166

Client Star Fleet Energy
Address Main Shop 2
5041 Pasadena Hwy
#701
Pasadena Texas, 77505

Project No Star-Lab1
Client Reference 45678
No
Project ZMR Retail Testing
Location Detail Hidden Lane

Mix No HMA -1.5-A PG 64-34 Staker
Lift No 2
Sample No 008
Date Tested 1/6/2022
Supplier Bedrock Gravel and Stone
Plant Point East Hot Plant

Location	Pan Wt grams	Dry + Pan grams	Dry Wt grams	SSD Wt grams	Imm Wt grams	Volume CC	Specific Grav	Density Lbs/Ft3	Max Dens Lbs/Ft3	Comp- action Percent	Thick Inches
Test Sta 12+95 - 16'RT	150.0	500.0	350	437.0	267.0	170	2.059	128.3	135.0	95.0	3.07
Test Sta 13+2 - 12'RT	150.0	478.0	328	412.0	254.0	158	2.076	129.3	135.0	95.8	3.34
Test Sta 14+69 - 22'RT	130.0	725.0	595	621.9	335.2	287	2.075	129.3	135.0	95.8	3.12
Test Sta 15+94 - 12'RT	130.0	731.0	601	677.5	391.6	286	2.102	131.0	135.0	97.0	3.01
Test Sta 16+50 - 12'RT	130.0	711.0	581	743.9	470.9	273	2.128	132.6	135.0	98.2	3.21
Test Sta 17+54 - 17'RT	130.0	695.0	565	865.9	595.9	270	2.093	130.4	135.0	96.6	3.02
Test Sta 18+90 - 20'RT	130.0	696.0	566	864.7	594.6	270	2.096	130.6	135.0	96.7	3.11
Average							2.090	130.19		96.4%	

Inspector *Greg Putnam*
Digital Signature By User Login

Manager
Digital Signature By User Login

System Link <http://steploc.com/assignments/ECA92690-CADA-4CE1-536F-B01D1A7F74DE>
System Path ZMR Retail Testing / ASPHALTIC CONCRETE PAVING / Star-Lab1 HMAMatCores 10 Root 6/29 GP

1/5/2022 5:01:54 PM

PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!! PRELIMINARY DRAFT!!!

1/1

HMA QC Thickness

Reports

- Assignment Summary
- Web-HMA QC Thickness
- Prnt-HMA QC Thickness

HMA QC Thickness

Sample Date

April 12, 2019 15:45

NowClear

SampleID/Barcode

E3556

Location/Lift Number

Lift 1 Over There

Location Map Marker

38.5331026,-105.2982525

HereMapClear

HMA Mix

HMA -1.5-A PG 64-34 Staker

SelectClear

Sample Type

Rand Ind

Split Sample ID

3543

HMA QC Thickness

	Location	Thickness
1	Location 1	3.04
2	Location 2	2.98
3	Location 3	2.99
4	Location 4	3.01
5	Location 5	3.02
6		
7		
8		
9		
10		
		5
		3.01

Specified Thickness

2.75

Average Thickness

3.01

Test Count

5

Fail Count

2

Eng Judge Count

3

Manager Signoff

☒ Jenelle Wilcox 4/12/19 15:46



HMA Thickness - QC

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 5/14/2019
Project No: Star-Lab1
Client Job No: 45678

Date Tested: 4/12/19
Sample Type: Rand Ind
Project: ZMR Lab Testing and Inspection
Pay Item:
Location: Lift 1 Over There

Mix Design: 15-2H-07-4-019
Supplier: Bedrock Gravel and Stone
Pit/Plant: Point East Hot Plant
Specified Thickness: 2.75
Average Thickness: 3.01

Sub Lot #	Location Detail	Thickness (in)
1	Location 1	3.04
2	Location 2	2.98
3	Location 3	2.99
4	Location 4	3.01
5	Location 5	3.02
6		
7		
8		
9		
10		

Technician: *Jenelle Wilcox*

Digital Signature By User Login

Manager: *Jenelle Wilcox*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/c083816b-9b2e-4773-4578-01a2bb5dc672>

Path:Task/Form ASPHALTIC CONCRETE PAVING / Star-Lab1 HMAQCThicknesses 4/8 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Inspection Checklist – Clear & Grub

Inspection Details

Inspection Date	May 01, 2017	Today	Clear
Location Map Marker	Here	Map	Clear
Location/Feature Detail	South Bound Ramp		
Crew Foreman	James Kirk	Select	Clear
Pay Item	Search or browse		
Station Begin	12000		
Station End	18000		
Offset Begin	12		
Offset Begin Left/Right	LT	RT	
Offset End	24		
Offset End Left/Right	LT	RT	
Width	12		
Calc'd Area SY	8000		
Entered Area SY			
Acceptance Criteria	UDOT Clear And Grub	Select	Clear

Requirement Summary Remove stumps down to 2 feet below the surface.

WORK QUALITY • Structures • Trees • Shrubs • Stumps • Underground obstructions • Within limits • Waste disposed

Work Quality Acceptable?

Accept

Report

NA

Work Quality Remarks

All necessary areas have NOT been cleared of all structures, trees, shrubs, stumps and other underground obstructions.

All Clearing and grubbing Debris has NOT been properly disposed of.

All areas were NOT properly grubbed in the excavation area and any pits, channel changes and ditches have NOT been grubbed to depth necessary for excavation.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

All work has NOT been performed within designated limits.

All necessary areas have NOT been cleared of all structures, trees, shrubs, stumps and other underground obstructions.;

SITE PREP • Grade to drain • Fill holes •
Erosion control measures in place • Exposed
Utilities plugged

Site Prep Acceptable?	Accept Report NA
Site Prep Remarks	Affected areas have NOT been properly graded to drain and any holes have NOT been filled. The ends of any abandoned storm sewers, culverts, etc. have NOT been properly plugged. Erosion control measures have NOT been implemented and required. See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.) All cut, damaged, or exposed trees and shrubs have NOT been treated.
General Comments	My Comments
Weather	Overcast
Temperature	Cool 45 - 50
Inspection Duration (Hours)	5
Acceptance Decision	Pass Fail Eng. Judge In Progress



Clear and Grub Inspection and Check List

Report Date: 2/28/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 5/1/17

Internal Proj. No: A6543

Client Project No: D3546

Crew Foreman:

Project/Task/Assn: Highway QA Sample / Clearing and Grubbing / Clear & Grub Insp ChkList3

Pay Item:

Location: South Bound Ramp

Begin Sta/Off: 120+00 12RT

Lot End Sta/Off: 180+00 24RT

Spec Summary: Remove stumps down to 2 feet below the surface.

Area of Concern	Accept Report	Comments
WORK QUALITY • Structures • Trees • Shrubs • Stumps • Underground obstructions • Within limits • Waste disposed	Report	All necessary areas have NOT been cleared of all structures, trees, shrubs, stumps and other underground obstructions.;
SITE PREP • Grade to drain • Fill holes • Erosion control measures in place • Exposed Utilities plugged	Accept	

Weather: Overcast

Temperature: Cool 45 - 50

Inspection Duration (Hours): 5

Acceptance Decision: Fail

General Comments: My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/e58e0818-ca06-406f-6959-121a5087d986>

Inspection Checklist – Crushing Observation

Item Inspected	Item Inspected				
Location	Location				
Inspection Date-Time	November 23, 2018 21:48	Now	Clear		
Location Map Marker	Here	Map	Clear		
City Reference Number	City Reference Number				
Inspection Reason	Re-Inspection				
Code Inspected to	AWS-D1.1	AWS-D1.8	IBC	AISC	PCI

PRE-CRUSHER SAMPLE

PRE-CRUSHER SAMPLE	Yes	No	NA
PRE-CRUSHER SAMPLE	Accept	Report	NA
PRE-CRUSHER SAMPLE	PRE-CRUSHER SAMPLE Location		
PRE-CRUSHER SAMPLE	Pre-Crusher Sample		
PRE-CRUSHER SAMPLE	Pre-Crusher Sample;		

PRE-CRUSHER CLASSIFICATION

PRE-CRUSHER	Yes	No	NA
PRE-CRUSHER	Accept	Report	NA
PRE-CRUSHER	PRE-CRUSHER Classification Location		

PRE-CRUSHER

Pre-Crusher Sample

Classification Remarks

Pre-Crusher Sample;

PRE-CRUSHER SIEVE ANALYSIS

PRE-CRUSHER Sieve

Yes

No

NA

Analysis

PRE-CRUSHER Sieve

Accept

Report

NA

Analysis Acceptable?

PRE-CRUSHER Sieve

PRE-CRUSHER Sieve Analysis Location

Analysis Location

PRE-CRUSHER Sieve

Pre-Crusher Sample

Analysis Remarks

Pre-Crusher Sample;

POST-CRUSHER SAMPLE

POST-CRUSHER SAMPLE

Yes

No

NA

POST-CRUSHER SAMPLE

Accept

Report

NA

Acceptable?

POST-CRUSHER SAMPLE

POST-CRUSHER SAMPLE Location

Location

POST-CRUSHER SAMPLE

Remarks

POST-CRUSHER SAMPLE Remarks

POST-CRUSHER CLASSIFICATION

POST-CRUSHER

Classification

Yes

No

NA

POST-CRUSHER

Classification Acceptable?

Accept

Report

NA

POST-CRUSHER

Classification Location

POST-CRUSHER Classification Location

POST-CRUSHER

Classification Remarks

POST-CRUSHER Classification Remarks

POST-CRUSHER SIEVE ANALYSIS

POST-CRUSHER Sieve

Analysis

Yes

No

NA

POST-CRUSHER Sieve

Analysis Acceptable?

Accept

Report

NA

POST-CRUSHER Sieve

Analysis Location

POST-CRUSHER Sieve Analysis Location

POST-CRUSHER Sieve

Analysis Remarks

POST-CRUSHER Sieve Analysis Remarks

PROCTOR

Proctor

Yes

No

NA

Proctor Acceptable?

Accept

Report

NA

Proctor Location

Proctor Location

Proctor Remarks

Proctor

Separate/Label Stock Pile

Placement in (R.O.W)

Mix/Water Stock Pile

Placement on Site

Dust Control

Placement off Site

Placement in (R.O.W); Dust Control;

PLACEMENT IN (R.O.W)

Placement In (R.O.W)

Yes

No

NA

Placement In (R.O.W)

Acceptable?

Accept

Report

NA

Placement In (R.O.W)

Location

Placement In (R.O.W) Location

Placement In (R.O.W)

Remarks

Proctor
Separate/Label Stock Pile
Placement in (R.O.W)
Mix/Water Stock Pile
Placement on Site
Dust Control
Placement off Site
Placement in (R.O.W);

PLACEMENT ON SITE

Placement On Site

Yes

No

NA

Placement On Site

Accept

Report

NA

Acceptable?

Placement On Site Location

Placement On Site Location

Placement On Site Remarks

Proctor
Separate/Label Stock Pile
Placement in (R.O.W)
Mix/Water Stock Pile
Placement on Site
Dust Control
Placement off Site
Placement in (R.O.W);

PLACEMENT OFF SITE

Placement Off Site

Yes

No

NA

Placement Off Site

Accept

Report

NA

Acceptable?

Placement Off Site Location

Placement Off Site Location

Placement Off Site Remarks

Proctor
Separate/Label Stock Pile
Placement in (R.O.W)
Mix/Water Stock Pile
Placement on Site
Dust Control
Placement off Site
Placement in (R.O.W); Placement on Site;

SEWER PIPE

Sewer Pipe

Yes

No

NA

Sewer Pipe Acceptable?

Accept

Report

NA

Sewer Pipe Location

Sewer Pipe Location

Sewer Pipe Remarks

Sewer Pipe Remarks

SSMH

SSMH

Yes

No

NA

SSMH Acceptable?

Accept

Report

NA

SSMH Location

SSMH Location

SSMH Remarks

SSMH Remarks

STORM DRAIN PIPE

Storm Drain Pipe

Yes

No

NA

Storm Drain Pipe

Accept

Report

NA

Acceptable?

Storm Drain Pipe Location

Storm Drain Pipe Location

Storm Drain Pipe Remarks

Storm Drain Pipe Remarks

SDMH

SDMH

Yes

No

NA

SDMH Acceptable?

Accept

Report

NA

SDMH Location

SDMH Location

SDMH Remarks

SDMH Remarks

WATER LINE

Water Line

Yes

No

NA

Water Line Acceptable?

Accept

Report

NA

Water Line Location

Water Line Location

Water Line Remarks

Water Line Remarks

IRRIGATION LINE

Irrigation Line

Yes

No

NA

Irrigation Line Acceptable?

Accept

Report

NA

Irrigation Line Location

Irrigation Line Location

Irrigation Line Remarks

Irrigation Line Remarks

SEPARATE/LABEL STOCK PILE

Separate/Label Stock Pile

☒ Yes
 ☐ No
 ☐ NA

Separate/Label Stock Pile

☒ Accept
 ☐ Report
 ☐ NA

Acceptable?

Separate/Label Stock Pile

Separate/Label Stock Pile Location Separate/Label Stock Pile

Location

Separate/Label Stock Pile

Separate/Label Stock Pile Remarks

Remarks

MIX/WATER STOCK PILE

Mix/Water Stock Pile

☒ Yes
 ☐ No
 ☐ NA

Mix/Water Stock Pile

☒ Accept
 ☐ Report
 ☐ NA

Acceptable?

Mix/Water Stock Pile

Mix/Water Stock Pile Location

Location

Mix/Water Stock Pile

Mix/Water Stock Pile Remarks

Remarks

DUST CONTROL

Dust Control

☒ Yes
 ☐ No
 ☐ NA

Dust Control Acceptable?

☒ Accept
 ☐ Report
 ☐ NA

Dust Control Location

Dust Control Location

Dust Control Remarks

Dust Control Remarks

SEWER • Manholes • Pipe installation/Alignment • Bedding/Backfill • Video / Compaction / Testing • Laterals

SEWER Acceptable?

☒ Accept
 ☐ Report
 ☐ NA

SEWER Remarks

Damaged Manholes

Needs Video / Compaction / Testing

Improper Pipe Installation/Alignment

Damaged Laterals

Improper Bedding/Backfill

SEWER Location

Sewer Location

STORM DRAIN • Manholes / Catch Basins / Boxes • Pipe installation / Alignment • Bedding/ Backfill • Video / Compaction / Testing • Laterals

STORM DRAIN Acceptable?

☒ Accept
 ☐ Report
 ☐ NA

STORM DRAIN Remarks

Damaged Manholes / Catch Basins / Boxes

Needs Video / Compaction / Testing

Improper Pipe Installation / Alignment

Damaged Laterals

Improper Bedding/ Backfill

Improper Pipe Installation / Alignment;

STORM DRAIN Location

Storm drain location

WATER • Pipe installation / Alignment • Bedding / Backfill • Tape / Wire • Compaction Testing • Pressure Test / Bacteria Test • Services / Boxes • Valves • Hydrants • Thrust Blocks

WATER Acceptable?

Accept

Report

NA

WATER Remarks

Improper Pipe Installation / Alignment

Damaged Services / Boxes

Improper Bedding / Backfill

Damaged Valves

Damaged Missing Tape / Wire

Damaged Hydrant

Needs Compaction Testing

Damaged or Missing Thrust Blocks

Needs Pressure Test / Bacteria Test

WATER Location

Water location

IRRIGATION • Pipe installation / Alignment • Bedding/Backfill • Tape/Wire • Thrust Blocks • Compaction Testing • Pressure Test / Bacteria Test • Services / Boxes • Valves • Hydrants

IRRIGATION Acceptable?

Accept

Report

NA

IRRIGATION Remarks

Improper Pipe Installation / Alignment

Needs Pressure Test / Bacteria Test

Improper Bedding/Backfill

Damaged Services / Boxes

Damaged Missing Tape/Wire

Damaged Valves

Damaged Missing Thrust Blocks

Damaged Hydrants

Needs Compaction Testing

Damaged or Missing Thrust Blocks

Needs Compaction Testing;

IRRIGATION Location

Irrigation Location

ROADS & STREETS • Curb & Gutter • Sidewalk • Subgrade • Road base • Asphalt • Testing / Cylinders / Deflection • Raise Lids / Collars

ROADS & STREETS

Acceptable?

Accept

Report

NA

ROADS & STREETS

Remarks

Damaged Curb & Gutter

Asphalt

Damaged Sidewalk

Needs Testing / Cylinders / Deflection

Failing Subgrade

Needs Raise Lids / Collars

Failing Road base

ROADS & STREETS

Road and Streets Location

Location

MISCELLANEOUS • Street Lights • Street Signs • Street Striping • Mud-tracking/Air Quality • SWPP Plan

MISCELLANEOUS

Acceptable?

Accept

Report

NA

MISCELLANEOUS Remarks

Damaged Street Lights

Unacceptable Mud-tracking/Air Quality

Damaged Street Signs

Missing SWPP Plan

Damaged Street Striping

CRUSHER SAMPLES • Pre-Crusher Sample • Pre-Crusher Classification • Pre-Crusher Sieve Analysis • Post-Crusher Sample • Post-Crusher Classification • Post-Crusher Sieve Analysis

General Remarks

General Remarks

Weather

Clear w/ Wind

Temperature

Very Hot 95 - 100

Inspection Duration (Hours)

7



Crushing Observation Inspection

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date/Time: 11/23/18 21:48

City Reference No: City Reference Number

Project No: Star-Lab1

Client Project No: 45678

Code Inspected to: AWS-D1.8

Inspection Reason: Re-Inspection

Project/Task/Assn: ZMR Lab Testing and Inspection / CITY ASSET INSPECTIONS / Star-Lab1 CrushObInsp 11/23 GP

Item Inspected			Location(s)	
1	Item Inspected		Location	
Material Used	Inspected?	Accept/Report	Location	Comments
PRE-CRUSHER SAMPLE	Yes	Accept	PRE-CRUSHER SAMPLE Location	Pre-Crusher Sample;
PRE-CRUSHER CLASSIFICATION	No	Report	PRE-CRUSHER Classification Location	Pre-Crusher Sample;
PRE-CRUSHER SIEVE ANALYSIS	NA	Accept	PRE-CRUSHER Sieve Analysis Location	Pre-Crusher Sample;
POST-CRUSHER SAMPLE	Yes	Accept	POST-CRUSHER SAMPLE Location	POST-CRUSHER SAMPLE Remarks
POST-CRUSHER CLASSIFICATION	No	Accept	POST-CRUSHER Classification Location	POST-CRUSHER Classification Remarks
POST-CRUSHER SIEVE ANALYSIS	No	Report	POST-CRUSHER Sieve Analysis Location	POST-CRUSHER Sieve Analysis Remarks
PROCTOR	No	Accept	Proctor Location	Placement in (R.O.W); Dust Control;
PLACEMENT IN (R.O.W)	Yes	Report	Placement In (R.O.W) Location	Placement in (R.O.W);
PLACEMENT ON SITE	No	Report	Placement On Site Location	Placement in (R.O.W);
PLACEMENT OFF SITE	Yes	Report	Placement Off Site Location	Placement in (R.O.W); Placement on Site;
SEWER PIPE	Yes	Report	Sewer Pipe Location	Sewer Pipe Remarks
SSMH	No	Accept	SSMH Location	SSMH Remarks
STORM DRAIN PIPE	Yes	Report	Storm Drain Pipe Location	Storm Drain Pipe Remarks
SDMH	Yes	Accept	SDMH Location	SDMH Remarks
WATER LINE	No	Accept	Water Line Location	Water Line Remarks
IRRIGATION LINE	Yes	Accept	Irrigation Line Location	Irrigation Line Remarks
SEPARATE/LABEL STOCK PILE		Accept	Separate/Label Stock Pile Location Separate/Label Stock Pile	Separate/Label Stock Pile Remarks
MIX/WATER STOCK PILE	No	Accept	Mix/Water Stock Pile Location	Mix/Water Stock Pile Remarks
DUST CONTROL	No	Accept	Dust Control Location	Dust Control Remarks

Weather: Clear w/ Wind

Inspection Duration (Hours): 7

Temperature: Very Hot 95 - 100

Remarks: General Remarks

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/3a5f9af4-d278-4431-8804-8ee2b49384d6>

Inspection Checklist - Drainage

Inspection Details

Inspection Date	January 29, 2016	Today	Clear
Location Map Marker	40.3081859,-111.903798	Here	Map
Location/Feature Detail	Here		
Pay Item	Install Drainage - Segment 2.1		
Station Begin	12567		
Station End	14987		
Offset Begin	34		
Offset Begin Left/Right	LT RT		
Offset End	12		
Offset End Left/Right	LT RT		
Default Nuke Gauge	Troxler 04 Select Clear		
Std Count-MS	254		
Std Count-DS	765		
Default Proctor	Proctor - 114@12 SW Point North Select Clear		
Default Probe Depth (in)	10		
Default Lift Thickness (inches)	12		

Material Installed	Mordor Quarry - Granular Borrow 3" minus	Select	Clear
Material Grade Criteria	UDOT GBB Granular Backfill Borrow	Select	Clear
Spec Summary	4 random tests per 1000 SY lot, min(1/250SY). one per lift. Avg of 2 >=96		
Test Frequency OR (Leave Blank if # SubLots is filled in)	2500		
Number of Sublots (Leave Blank if Test Frequency is Filled in)			
Auto-Create SubLots			
Crew Foreman	Darth Vader	Select	Clear

PIPE DOCUMENTATION • Supplier's/Mfg.'s Certification of material , coating and joints meet requirements • Record of Video Inspection

Pipe Documentation	Accept	Report	NA
Acceptable?			
Pipe Documentation	Furnished Piping, fittings and appurtenances were NOT from an acceptable source/supplier.		Furnished Piping was NOT of the proper size, thickness, material, coating, schedule, etc.)
Remarks	Furnished Piping, fittings and appurtenances did NOT meet the requirements of the plans and Specs.		See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)
	Supplier Certification of Spec. compliance is NOT on file for all pipe, fittings, appurtenances, manholes, and catch basins.		
	Furnished Piping, fittings and appurtenances were NOT from an acceptable source/supplier.;		

PRECAST CONCRETE MANHOLE/CATCHBASIN •
Supplier prequalified to provide structure • Mfg.
certification of frame, cover or grate • Installed at correct
elevation and orientation

Manhole/CB Acceptable?

Accept Report NA

Manhole/CB Remarks

Furnished manholes and catch basins were NOT from an acceptable source/supplier.

Catchbasin/Manhole was NOT placed at the proper elevation or orientation.

Furnished manholes and catch basins did NOT meet the requirements of the plans and Specs. (Size, thickness, material, openings, etc.)

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Supplier Certification of Spec. compliance was NOT on file for all frames, covers and grates.

Furnished manholes and catch basins were NOT from an acceptable source/supplier.;

TRENCH EXCAVATION • Line and grade per plans • Safe
trenching practice w/ trench box if necessary • existing
structures/infrastructure protected from damage or
settlement

Trench Excavation

Acceptable?

Accept Report NA

Trench Excavation Remarks

Excavation operations were NOT performed to Line and grade per plans.

Existing structures or infrastructure have NOT been properly protected from damage or settlement.

Unsafe trenching practice was used. A trench box should have been used but was NOT.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excavation operations were NOT performed to Line and grade per plans.;

PIPE INSTALLATION • On Proper Bedding Material •
Proper length, elevation, and grade • Laid beginning at
lower end with proper Joint seal • End structure
connections properly sealed, grouted and allowed to cure
before backfill operations

Pipe Installation Acceptable?

Accept Report NA

Pipe Installation Remarks

Pipe was NOT installed on proper bedding.

All end connections to manholes and catch basins were properly installed grouted and sealed with enough time to seal before backfilling operations.

Pipe was NOT installed at the proper length, elevation and grade.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Pipe was NOT installed beginning at the lower end and laid with bell and groove end upgrade.

Pipe was NOT installed on proper bedding.;

BACKFILL • Bedding material properly places and compacted along both sides of pipe (Max 8" Lifts) • Proper material placed in each zone of backfill. (Embankment, Granular Borrow, Base, Etc.)

Backfill Acceptable?

Accept Report NA

Backfill Remarks

Organic and unsuitable material caused areas of low compaction

To reduce moisture, material was winrowed and allowed to dry.

Excess moisture in silty material led to pumping and insufficient compaction

Material was Contaminated or Frozen.

Water truck was used to add moisture to the material.

Particle Sizes appear to be OUTSIDE of acceptable limits, samples have been taken for testing to meet frequency requirements.

Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Organic and unsuitable material caused areas of low compaction;

MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl

Compaction Properties

Accept Report NA

Acceptable?

Compaction Properties

Remarks

Organic and unsuitable material caused areas of low compaction

To reduce moisture, material was winrowed and allowed to dry.

Excess moisture in silty material led to pumping and insufficient compaction

Material was Contaminated or Frozen.

Water truck was used to add moisture to the material.

Particle Sizes appear to be OUTSIDE of acceptable limits, samples have been taken for testing to meet frequency requirements.

Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.;

COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges

Compaction Method

Accept Report NA

Acceptable?

Compaction Method

Remarks

Material was NOT properly compacted using a single smooth drum vibratory roller without damaging material

Small skid or roller vibratory compactor was used to compact areas that were inaccessible to the large roller.

Stepping was not used on a side slope which lead to inconsistent lift thickness and insufficient compaction in thicker areas

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Excessive compactive effort led to material degradation

Excessive compactive effort led to material degradation;

General Comments	Comments
Weather	Rain w/ Wind
Temperature	Cool 45 - 50
Inspection Duration (Hours)	2
Density Requirement	4 random tests per 1000 SY lot, min(1/250SY). one per lift. Avg of 2 >=96
Actual Minimum Density	91.9
Actual Average Density	92
Calc'd Qty (CY)	888.9
Calc'd Qty (SY)	2666.7
Entered Qty Installed (CY)	900
Entered Qty Installed (SY)	2200
Acceptance Decision	PassFailEng. JudgeIn Progress

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Drainage Installation Inspection and Check List

Report Date: 3/19/2019

Client: British Lanolium

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505

Inspection Date: 1/29/16

Project No: BR-HWN

Client Project No: 562355

Crew Foreman:

Project/Task/Assn: Bedrock Highway Design Build / Install Drainage / Pipe Underground - Inspection

Pay Item: Install Drainage - Segment 2.1

Material: Mordor Quarry - Granular Borrow 3" minus

Mtl Grade: UDOT GBB Granular Backfill Borrow

Location: Here

Begin Sta/Off: 125+67 34LT

Lot End Sta/Off: 149+87 12LT

Spec Summary: 4 random tests per 1000 SY lot, min(1/250SY). one per lift. Avg of 2 >=96

Area of Concern	Accept Report	Comments
PIPE DOCUMENTATION • Supplier's/Mfg.'s Certification of material , coating and joints meet requirements • Record of Video Inspection	Accept	Furnished Piping, fittings and appurtenances were NOT from an acceptable source/supplier.;
PRECAST CONCRETE MANHOLE/CATCHBASIN • Supplier prequalified to provide structure • Mfg. certification of frame, cover or grate • Installed at correct elevation and orientation	NA	Furnished manholes and catch basins were NOT from an acceptable source/supplier.;
TRENCH EXCAVATION • Line and grade per plans • Safe trenching practice w/ trench box if necessary • existing structures/infrastructure protected from damage or settlement	Report	Excavation operations were NOT performed to Line and grade per plans.;
PIPE INSTALLATION • On Proper Bedding Material • Proper length, elevation, and grade • Laid beginning at lower end with proper Joint seal • End structure connections properly sealed, grouted and allowed to cure before backfill operations	Accept	Pipe was NOT installed on proper bedding.;
BACKFILL • Bedding material properly places and compacted along both sides of pipe (Max 8" Lifts) • Proper material placed in each zone of backfill. (Embankment, Granular Borrow, Base, Etc.)	Accept	Organic and unsuitable material caused areas of low compaction;
MATERIAL PROPERTIES AFFECTING COMPACTION • Moisture within range to allow compaction • Not frozen • Free of organics and other unsuitable Mtl	Accept	Large boulders/chunks were NOT properly incorporated in fill and CAUSED compaction problems.;
COMPACTION METHOD • Proper Equipment used • Not over-compacted or damaged • Smaller equipment used in areas around obstructions, structures and edges	Accept	Excessive compactive effort led to material degradation;

Weather: Rain w/ Wind

Temperature: Cool 45 - 50

Quantity Installed (CY): 900

Quantity Installed (SY): 2200

Density Requirement: 4 random tests per 1000 SY lot, min(1/250SY). one per lift. Avg of 2 >=96

Inspection Duration (Hours): 2

Actual Minimum Density: 91.9

Actual Average Density: 92

Acceptance Decision: Pass

General Comments: Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/5d2eba29-4d40-4e4b-65e2-d2088b77b0ea>

Manager:

Digital Signature By User Login

Inspection Checklist - Landscape

Test Date: May 14, 2017 Today Clear

Location Map Marker: Here Map Clear

Location/Feature Detail: Ramp Infield 245-C

Pay Item:

Acceptance Criteria: UDOT Landscape Select Clear

Requirement Summary: Seed Mix Approved. 2.3 lb/SY

PRE-SEED PREP • Seed mix Certified per Spec and in good condition as delivered • Topsoil source/supplier approved and properly placed and spread • Proper weather conditions and time of year • Irrigation system properly installed and tested

Pre-Seed Prep Acceptable?

Accept

Report

NA

Pre-Seed Prep Remarks

Topsoil source/supplier has NOT been approved by the engineer.

Weather conditions and time of year were NOT acceptable for seeding/turf operations.

Seed mix was NOT certified by the supplier to be within Specification.

Seed mix did NOT appear to be of good quality and condition as delivered.

Topsoil was NOT placed at proper thickness per plans.

Irrigation systems have NOT been properly installed inspected and tested before seeding/turf operations began.

Site subgrade was NOT properly graded. Site subgrade was frozen or snow covered.

Site subgrade was NOT properly cleared of unacceptable weeds, sticks, large stones and other debris.

Topsoil has NOT been properly placed and spread using proper technique. Topsoil was placed too long after grading. Topsoil was NOT placed at proper thickness per plans.

Topsoil was placed too long after grading.

Site subgrade had unacceptable moisture and friability.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

Site subgrade was NOT properly graded. Site subgrade was frozen or snow covered.;

SEED APPLICATION • Applied using proper equipment • Proper Seed, water, mulch(tracer) mix applied with proper technique at rate per spec • Incorporated into soil by cat-tracking, hand raking, or chain dragging • Periodic watering per spec

Seed Application

Accept

Report

NA

Acceptable?

Seed Application Remarks

Hydraulic seeding equipment FAILED.

Seed, water and mulch (tracer) mix was NOT placed using proper technique. Seed, water and mulch (tracer) mix was NOT placed at a proper application rate per plans and Specs.

After application, the seed was Not properly incorporated into the soil. (cat-tracking, hand raking or chain dragging methods)

Measures were NOT taken to provide periodic watering as required by the plans and specs.

See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)

General Comments	My Comments
Weather	Overcast
Temperature	Cold 32 - 45
Inspection Duration (Hours)	5
Acceptance Decision	In Process Pass Fail Retested(#5) Eng. Decision(#2)

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Landscape Inspection and Check List

Report Date: 3/19/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 5/14/17

Project No: A6543

Client Project No: D3546

Crew Foreman:

Project/Task/Assn: SR-89 Highway Expansion / Landscape Seeding / A6543 InspLandscape 3/19 JW

Pay Item:

Location:

Spec Summary: Seed Mix Approved. 2.3 lb/SY

Area of Concern	Accept Report	Comments
PRE-SEED PREP • Seed mix Certified per Spec and in good condition as delivered • Topsoil source/supplier approved and properly placed and spread • Proper weather conditions and time of year • Irrigation system properly installed and tested	Report	Site subgrade was NOT properly graded. Site subgrade was frozen or snow covered.;
SEED APPLICATION • Applied using proper equipment • Proper Seed, water, mulch(tracer) mix applied with proper technique at rate per spec • Incorporated into soil by cat-tracking, hand raking, or chain dragging • Periodic watering per spec	Accept	

Weather: Overcast

Temperature: Cold 32 - 45

Density Requirement: Seed Mix Approved. 2.3 lb/SY

Inspection Duration (Hours): 5

Acceptance Decision: Fail

Comments:

Inspector:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/f88e871c-e6a2-4ed3-4c83-eeb4583ebec3>

Manager:

Digital Signature By User Login

Generic Inspection

Inspection Details

Pay Item	Search or browse
Location/Feature Detail	Over Here
Location Map Marker	HereMapClear
Crew Foreman	Jim JonesSelectClear
Comments	Here are the comments
Quantity	
Weather	Partly Cloudy
Temperature	Mild 50 - 65
Inspection Duration (Hours)	5
Acceptance Decision	PassFailEng. JudgeIn Progress



Daily Inspection Report

Report Date: 2/28/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 5/18/16

Project No: A6543

Client Project No: D3546

Crew Foreman:

Project/Task/Assn: Highway QA Sample / Clearing and Grubbing / C&G Generic Inspection

Pay Item:

Location: Over Here

Comments: Here are the comments

Weather: Partly Cloudy

Temperature: Mild 50 - 65

Inspection Duration (Hours): 5

Acceptance Decision: Pass

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/c842ca3f-bdc1-4b1b-2e46-5c913372c073>

Issues In Process

Resolution Process	Priority	Proj//Task// Assgn	Issue Description	Location Details	Notified Forman/ Owner Rep	Resolution Detail	Resolution Approved / By	Verification Comments	Verification Completed / By
Bedrock Highway Extension									
Earthwork									
RFI	Priority 3 (Follow-up)	Bedrock Highway Extension//Embankment, Borrow And Backfill//NCR - Low Compaction GMP	Low Density Test	See test 4	8/6/2014 8/15/2014	No Resolution Yet			9/9/2015 Greg Putnam
NCR	Priority 2 (Action Needed)	Bedrock Highway Extension//Embankment, Borrow And Backfill//Deviation - Out of spec Gradation	Out of range for 1/2" & #4		10/10/2014 10/10/2014		11/10/2014 Tweety Bird		11/10/2014 Tweety Bird
CO	Priority 3 (Follow-up)	Bedrock Highway Extension//Embankment, Borrow And Backfill//CO - UnPlanned Access ramp	Add ramp and radius material for an unmapped access point		10/10/2014 10/10/2014				
RD	Priority 2 (Action Needed)	Bedrock Highway Extension//Embankment, Borrow And Backfill//RD- Wetland Encroachment		My Location					
RFI	Priority 4 (Planning Needed)	Bedrock Highway Extension//Embankment, Borrow And Backfill//RFI- Source of material is Unknown.							
RD	Priority 3 (Follow-up)	Bedrock Highway Extension//Embankment, Borrow And Backfill//RD - Over Moist Pumping							
Util/Lighting									
NCR	Priority 3 (Follow-up)	Bedrock Highway Extension//Pipe - Underground Utility//NCR Density	Failed Density in trench backfill		10/10/2014				
Failed Test	Priority 2 (Action Needed)	Bedrock Highway Extension//Pipe - Underground Utility//Eng #2 Excess Cobble	Back fill material has excessive 3" plus cobble		10/10/2014				
Structures									
FDC	Priority 2 (Action Needed)	Bedrock Highway Extension//Concrete Bridge Structures//FDC Clearance Mod	Minor adjustment needed for rebar clearance.		10/10/2014 10/10/2014				
Surfacing									

Issues In Process List

Resolution Process	Priority	Proj//Task// Assgn	Issue Description	Location Details	Notified Forman/ Owner Rep	Resolution Detail	Resolution Approved / By	Verification Comments	Verification Completed / By
FDC	Priority 3 (Follow-up)	Bedrock Highway Extension//Hot Mix Asphalt (HMA)//FDC - Revised Driveway interface		Near the 7-11	11/4/2014				
RD	Priority 5 (Informational)	Bedrock Highway Extension//Hot Mix Asphalt (HMA)//RP Low Thickness							

GSR Road Extension (Pay Items)

Earthwork

RD		GSR Road Extension (Pay Items)//Embankment//RD Failed Density							
NCR		GSR Road Extension (Pay Items)//Place and finish Granular Borrow//FDC Issue Resolution							
NCR		GSR Road Extension (Pay Items)//Place and Finish Untreated Base Course UTBC//NCR Poor Sub Base							

Highway QA Sample

Structures

RD		Highway QA Sample//F/R/P&C Concrete Structural Element//Rd High Slump							
RD		Highway QA Sample//F/R/P&C Concrete Structural Element//RD Water in forms							
NCR		Highway QA Sample//F/R/P&C Concrete Structural Element//NCR Honeycomb Top NE							

Traffic/ATMS

RD		Highway QA Sample//Install Signals//RD Mislocated							
----	--	---	--	--	--	--	--	--	--

Earthwork

RFI		Highway QA Sample//Earthwork//RFI Slope Treatment?							
-----	--	--	--	--	--	--	--	--	--

Bedrock Highway Design Build

Earthwork

Issues In Process List

Resolution Process	Priority	Proj//Task// Assgn	Issue Description	Location Details	Notified Forman/ Owner Rep	Resolution Detail	Resolution Approved / By	Verification Comments	Verification Completed / By
NCR	Priority 1 (Potentially Unsafe)	Bedrock Highway Design Build//Granular Subbase//NCR Bad Proctor GP 10/14	Failed Combined Gradation A40590:Place PCCP (Pass 2) - Segment 2.2 - Phase 2 (SB) #200 sieve has 3.3% passing with max allowed 3% for the sand lab 561757	Level 6 F45, R67	9/5/2017 9/5/2017	Use fine aggregates meeting AASHTO M 6 physical properties - use gradation found in Table 5	11/7/2017 Greg Putnam	These are the comments recorded when verifying that the issue has been resolved.	11/7/2017 Greg Putnam
Surfacing									
NCR	Priority 2 (Action Needed)	Bedrock Highway Design Build//HMA / Super Pave//BR-HWN IssueResolution 3/7 GP	Area of un-compacted HMA about 20' by 40' need to be re laid	Left Side of the Right Shoulder	8/3/2018 8/3/2018	Will be scheduled for resurfacing 8/12/18	8/3/2018 Greg Putnam	All is according to FDC approved	8/3/2018 Greg Putnam
Structures									
NCR		Bedrock Highway Design Build//Reinforced Concrete//BR-HWN IssueResolution 8/3 GP							

Job Cancellation

Inspection Date	December 06, 2018	🕒 Today	🗑 Clear
Contractor	Joe Blow Contracting		
Crew Foreman	Joe Blow		
Pay Item (Select)	Search or browse ▾		
Pay Item PO WO (If No Pay Item Setup)	F3654		
Cancellation Reason	Job cancelled in route		Tests failed, contractor will reschedule
	Job cancelled Onsite		Contractor forgot to call and cancel
	Contractor not ready		Dispatch forgot to notify that job was cancelled
	Job cancelled Onsite;		
Remarks	My Comments		
Weather	Clear w/ Wind ▾		
Temperature	Hot 80 - 95 ▾		



Job Cancellation Report

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date: 12/6/18

Internal Proj. No: Star-Lab1

Client Reference No: 45678

Crew Foreman: Joe Blow

Contractor: Joe Blow Contracting

Project/Task/Assn: ZMR Lab Testing and Inspection / EXPANSION
ANCHORS / Star-Lab1 JobCancel 12/6 GP

Activity/PayItem: F3654

Temperature: Hot 80 - 95

Weather: Clear w/ Wind

Cancellation Reason: Job cancelled Onsite;

Remarks: My Comments

Inspector: *Greg Putnam*

Digital Signature By User Login

Manager: *Greg Putnam*

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/9d2616a2-7fa8-4d90-8564-3a41773212bf>

Inspection Checklist – City Asset

Inspection Date-Time	June 14, 2018 15:54	Now	Clear
Location Map Marker	Here	Map	Clear
City Reference Number	D190-03		
Inspection Reason	Initial Inspection ▼		
Code Inspected to	AWS-D1.1 AWS-D1.8 IBC AISC PCI		

SEWER • Manholes • Pipe installation/Alignment • Bedding/Backfill • Video / Compaction / Testing • Laterals

SEWER Acceptable?

Accept

Report

NA

SEWER Remarks

Damaged Manholes

Needs Video / Compaction / Testing

Improper Pipe Installation/Alignment

Damaged Laterals

Improper Bedding/Backfill

Improper Pipe installation/Alignment ;

STORM DRAIN • Manholes / Catch Basins / Boxes • Pipe installation / Alignment • Bedding/ Backfill • Video / Compaction / Testing • Laterals

STORM DRAIN Acceptable?

Accept

Report

NA

STORM DRAIN Remarks

Damaged Manholes / Catch Basins / Boxes

Needs Video / Compaction / Testing

Improper Pipe Installation / Alignment

Damaged Laterals

Improper Bedding/ Backfill

Improper Pipe installation / Alignment;

WATER • Pipe installation / Alignment •
Bedding / Backfill • Tape / Wire • Compaction
Testing • Pressure Test / Bacteria Test •
Services / Boxes • Valves • Hydrants • Thrust
Blocks

WATER Acceptable?

Accept

Report

NA

WATER Remarks

Improper Pipe Installation / Alignment

Damaged Services / Boxes

Improper Bedding / Backfill

Damaged Valves

Damaged Missing Tape / Wire

Damaged Hydrant

Needs Compaction Testing

Damaged or Missing Thrust Blocks

Needs Pressure Test / Bacteria Test

Improper Bedding / Backfill;

IRRIGATION • Pipe installation / Alignment •
Bedding/Backfill • Tape/Wire • Thrust Blocks •
Compaction Testing • Pressure Test / Bacteria
Test • Services / Boxes • Valves • Hydrants

IRRIGATION Acceptable?

Accept

Report

NA

IRRIGATION Remarks

Improper Pipe Installation / Alignment

Needs Pressure Test / Bacteria Test

Improper Bedding/Backfill

Damaged Services / Boxes

Damaged Missing Tape/Wire

Damaged Valves

Damaged Missing Thrust Blocks

Damaged Hydrants

Needs Compaction Testing

Damaged or Missing Thrust Blocks

Damaged Missing Tape/Wire;

ROADS & STREETS • Curb & Gutter • Sidewalk • Subgrade • Road base • Asphalt • Testing / Cylinders / Deflection • Raise Lids / Collars

ROADS & STREETS	Accept	Report	NA
Acceptable?			
ROADS & STREETS	Remarks		
	Damaged Curb & Gutter Asphalt		
	Damaged Sidewalk Needs Testing / Cylinders / Deflection		
	Failing Subgrade Needs Raise Lids / Collars		
	Failing Road base		
	Failing Subgrade;		

MISCELLANEOUS • Street Lights • Street Signs • Street Striping • Mud-tracking/Air Quality • SWPP Plan

MISCELLANEOUS	Accept	Report	NA
Acceptable?			
MISCELLANEOUS Remarks	Damaged Street Lights Unacceptable Mud-tracking/Air Quality		
	Damaged Street Signs Missing SWPP Plan		
	Damaged Street Striping		
	Missing SWPP Plan;		
General Remarks	My Comments		
Weather	Overcast ▼		
Temperature	Mild 50 - 65 ▼		
Inspection Duration (Hours)	6		

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



City General Asset Inspection

Report Date: 2/27/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Inspection Date Time : 6/14/18 15:54

City Reference No: D190-03

Project No: Star-Lab1

Code Inspected to: AWS-D1.1

Inspection Reason Initial Inspection

Client Project No: 45678

Project/Task/Assn: ZMR Lab Testing and Inspection / CITY ASSET INSPECTIONS / Star-Lab1 AllAssetInsp 6/14 GP

Area of Concern	Accept Report	Comments
SEWER • Manholes • Pipe installation/Alignment • Bedding/Backfill • Video / Compaction / Testing • Laterals	Accept	Improper Pipe installation/Alignment ;
STORM DRAIN • Manholes / Catch Basins / Boxes • Pipe installation / Alignment • Bedding/ Backfill • Video / Compaction / Testing • Laterals	Report	Improper Pipe installation / Alignment;
WATER • Pipe installation / Alignment • Bedding / Backfill • Tape / Wire • Compaction Testing • Pressure Test / Bacteria Test • Services / Boxes • Valves • Hydrants • Thrust Blocks	Accept	Improper Bedding / Backfill;
IRRIGATION • Pipe installation / Alignment • Bedding/Backfill • Tape/Wire • Thrust Blocks • Compaction Testing • Pressure Test / Bacteria Test • Services / Boxes • Valves • Hydrants	NA	Damaged Missing Tape/Wire;
ROADS & STREETS • Curb & Gutter • Sidewalk • Subgrade • Road base • Asphalt • Testing / Cylinders / Deflection • Raise Lids / Collars	Report	Failing Subgrade;
MISCELLANEOUS • Street Lights • Street Signs • Street Striping • Mud-tracking/Air Quality • SWPP Plan	Report	Missing SWPP Plan;

Weather: Overcast

Inspection Duration (Hours): 6

Temperature: Mild 50 - 65

Remarks: My Comments

Inspector: *Greg Putnam*

Manager:

Digital Signature By User Login

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/861ef9a4-02bb-4e7c-9db5-a47fccada973>

Project Manager's Report Approval Efficiency

Manager	# Completed Reports Currently Waiting Approval	Average Hours Waiting for Approval	For Period - 2/26/2019 to 3/28/2019	
			Total Repots Approved	Average Hours for Approval

Andy Harris				
Andy Spencer				
Braden Watson	11	9	58	76
Chase Kryger	2	684	66	37
Doug Watson				
Gerd Dixon				
Hank Belliston				
Jeremy Garner				
John Merrill				
Karen Edgar	160	348	33	0
Michael Rivera				
Natasha Barrus				
Nick Moore				
Orvin Russell	6	0	656	23
Paul Howard				
Shar Curtis	58	10	490	44
Steve Slaymaker	36	21	511	30
Steve Smith				

Daily Report Creation Summary

Reports Created Between: 1/2/2013 And 8/2/2018

Day	Product	Task	Report Type	Report Name	Created By	Assigned to	Progress	Last Action	Weather	Temperature
-----	---------	------	-------------	-------------	------------	-------------	----------	-------------	---------	-------------

Tuesday, May 29, 2018

Base Leveling Course

Base Course Insp ChkList

BR-HWN SoilInspBaseCourse 5/29 GP

Greg Putnam

Betty Rubble

Created

5/29/2018

Granular Subbase

GB Insp ChkList

BR-HWN SoilInspGB JJ 5/29

Greg Putnam

Jessy James

Created

5/29/2018

Danskin Rail Segment 13216

Granular Subbase

Proctor

BR-HWN Proctor 5/29 GP

Greg Putnam

Created

5/29/2018

Thursday, March 29, 2018

Borrow / Common Fill

Control Point Checklist

BR-HWN CPCChkLstEmb OWK 3/29

Greg Putnam

Obi-Wan Kenobi

Created

3/29/2018

Wednesday, March 07, 2018

Danskin Rail Segment 13216

HMA / Super Pave

Issue Resolution

BR-HWN IssueResolution 3/7 GP

Greg Putnam

Created

3/7/2018

Wednesday, February 28, 2018

PCCP For Ramps

Concrete Place PCCP TruckLog ChkList

BR-HWN PCCPTruckLog 2/28 GP

Greg Putnam

Created

2/28/2018

Thursday, January 18, 2018

South Gooding Main Station 13111

Borrow / Common Fill

Embankment Inspection ChkList

BR-HWN SoilInsp BK 1/18

Greg Putnam

Frodo Bagins

Created

1/18/2018

Tuesday, January 16, 2018

Project Management

Weekly Project Coord Mtg (Project Team)

ProjCoordMtg 1/16 GP

Greg Putnam

Created

1/16/2018

Quality Oversight and Review
Action Item/Issue

Quality Oversight and Review1/16 GP
ROW issue at 243 Carter Lane

Greg Putnam

Created

1/16/2018

Action Item/Issue

Clear Culvert Crossing - Draper City

Greg Putnam

Greg Putnam

Created

1/16/2018

Lemhi Rail Segment 13386

Granular Subbase

GB Insp ChkList

BR-LtRail SoilInspGB BK 1/16

Greg Putnam

Billy Kid

Completed

1/16/2018

Project Files By Task For - Bedrock Highway Design Build

Folder	File/Attachment	Description	Document No.	Submit Date	Respond Date	Category	Status	Date Attached
Task - Project Management								
Project Files (Misc)								
	DG04.pdf							7/4/2014
	Closeout Mockup2.pdf							11/16/2015
	4640bmanual.pdf							9/18/2014
	Marked up 2012-08-16 07.56.43.jpg							1/25/2019
As-Builts								
	653_e5 PA.pdf							8/30/2018
	4640bmanual.pdf							9/18/2014
Change Orders								
	02741-HotMixAsphalt.pdf							7/4/2014
FODs								
	DD15.pdf							7/4/2014
Payment Requests								
	02056-EmbankmentBorrowandBackfill.pdf							7/4/2014
	03055-PortlandCementConcrete.pdf							7/4/2014
RFIs								
	03055-PortlandCementConcrete.pdf							7/4/2014
Submittals								
	ASME PV Spec.pdf							7/4/2014
	BridgeDetail_12.pdf							9/15/2014

Job Safety Analysis

General Site

Scope of Work API 570 Pipe Inspections

Safe Work

Yes

No

Hot Work

Yes

No

Confined Space

Yes

No

Excavation

Yes

No

Lock Out/ Tag Out

Yes

No

Review Of Emergency Plan

Yes

No

Specalized PPE

Yes

No

Protectice Barricades

Yes

No

Power Lines

Yes

No

Chem Hazards

Yes

No

Simultaneous Ops

Yes

No

Other Concerns

Yes

No

Primary Evac Loc

0b8d854b-7a43-4f97-9afb-7b8e2ca17550

Secondary Evac Loc

Confined Spaces; Extreme Weather;

Eye Wash Location

1df54b3d-cf27-4555-a818-6b0a05d42eb3

Fire Extingisher Location

None

Analysis of Major Work Step 1

Work Step 1

Job/Equipment Setup

Hazards 1

Lift Injury

Potential Release of Energy

Fall Potential

Electrical Shock / Flash (includes power lines)

Confined Spaces

Hazardous Chemical Exposure (includes H2S)

Elevated Work or Load

Pinch Points

Water-Slip, Drown

Extreme Weather

Fire / Explosion

Sharp Edges

Excavation/Embankment

Hot / Cold Surface

High Noise Level

Slip & Trip

Radiation (NORM)

Slip & Trip;

Risk Level 1	2
Job Control 1	Wear Proper PPE Use harness and Tie-off Watch hand & foot placement Make Eye contact with EQ Operators Be aware of surroundings Verify H2S monitors Drink water Use trench Box or Stabilize/Bench embankment Use Proper Lift Technique Use ergonomic body positioning Watch hand & foot placement; Use trench Box or Stabilize/Bench embankment;
Responsible Person1	Person 1

Analysis of Major Work Step 2

Work Step 2 Perform Inspection ▼

Hazards2	Lift Injury Potential Release of Energy Fall Potential Electrical Shock / Flash (includes power lines) Confined Spaces Hazardous Chemical Exposure (includes H2S) Elevated Work or Load Pinch Points Water-Slip, Drown Extreme Weather Fire / Explosion Sharp Edges Excavation/Embankment Hot / Cold Surface High Noise Level Slip & Trip Radiation (NORM)
Risk Level 2	1

Job Control 2

Wear Proper PPE Use harness and Tie-off
Watch hand & foot placement Make Eye contact with EQ Operators
Be aware of surroundings Verify H2S monitors
Drink water Use trench Box or Stabilize/Bench embankment
Use Proper Lift Technique Use ergonomic body positioning
Use ergonomic body positioning;

Responsible Person2

Person 2

Analysis of Major Work Step 3

Work Step 3

Locate/Identify Work Focus Assets (Pipe Vessel etc.) ▼

Risk Level 3

3

Job Control 3

Wear Proper PPE Use harness and Tie-off
Watch hand & foot placement Make Eye contact with EQ Operators
Be aware of surroundings Verify H2S monitors
Drink water Use trench Box or Stabilize/Bench embankment
Use Proper Lift Technique Use ergonomic body positioning
Wear Proper PPE;

Responsible Person3

Person 3

Analysis of Major Work Step 4

Work Step 4

Walk down/Survey work assets and area ▼

Hazards4

Lift Injury
Potential Release of Energy
Fall Potential
Electrical Shock / Flash (includes power lines)
Confined Spaces
Hazardous Chemical Exposure (includes H2S)
Elevated Work or Load
Pinch Points
Water-Slip, Drown
Extreme Weather
Fire / Explosion
Sharp Edges
Excavation/Embankment
Hot / Cold Surface
High Noise Level
Slip & Trip
Radiation (NORM)
Confined Spaces;
4

Risk Level 4

Job Control 4

Wear Proper PPE
Use harness and Tie-off
Watch hand & foot placement
Make Eye contact with EQ Operators
Be aware of surroundings
Verify H2S monitors
Drink water
Use trench Box or Stabilize/Bench embankment
Use Proper Lift Technique
Use ergonomic body positioning
Watch hand & foot placement; Be aware of surroundings;
Person 5

Responsible Person4

Analysis of Major Work Step 5

Work Step 5

Perform Inspection ▼

Hazards5

Lift Injury
Potential Release of Energy
Fall Potential
Electrical Shock / Flash (includes power lines)
Confined Spaces
Hazardous Chemical Exposure (includes H2S)
Elevated Work or Load
Pinch Points
Water-Slip, Drown
Extreme Weather
Fire / Explosion
Sharp Edges
Excavation/Embankment
Hot / Cold Surface
High Noise Level
Slip & Trip
Radiation (NORM)
Fall Potential;

Risk Level 5

5

Job Control 5

Wear Proper PPE
Use harness and Tie-off
Watch hand & foot placement
Make Eye contact with EQ Operators
Be aware of surroundings
Verify H2S monitors
Drink water
Use trench Box or Stabilize/Bench embankment
Use Proper Lift Technique
Use ergonomic body positioning
Be aware of surroundings;

Responsible Person5

Person 5

Analysis of Major Work Step 6

Work Step 6

Job/Equipment Breakdown ▼

Lift Injury

Fall Potential

Electrical Shock / Flash (includes power lines)

Confined Spaces

Hazardous Chemical Exposure (includes H₂S)

Elevated Work or Load

Pinch Points

Water-Slip, Drown

Extreme Weather

Fire / Explosion

Sharp Edges

Excavation/Embankment

Hot / Cold Surface

High Noise Level

Slip & Trip

Radiation (NORM)

Risk Level 6

1

Wear Proper PPE

Use harness and Tie-off

Watch hand & foot placement

Make Eye contact with EQ Operators

Be aware of surroundings

Verify H2S monitors

Drink water

Use trench Box or Stabilize/Bench embankment

Use Proper Lift Technique

Use ergonomic body positioning

Drink water;

Responsible Person 6

Person 6

Analysis of Major Work Step 7

Work Step 7

Job/Equipment Setup

Hazards 7

Lift Injury
Potential Release of Energy
Fall Potential
Electrical Shock / Flash (includes power lines)
Confined Spaces
Hazardous Chemical Exposure (includes H2S)
Elevated Work or Load
Pinch Points
Water-Slip, Drown
Extreme Weather
Fire / Explosion
Sharp Edges
Excavation/Embankment
Hot / Cold Surface
High Noise Level
Slip & Trip
Radiation (NORM)
High Noise Level;
7

Risk Level 7

Job Control 7

Wear Proper PPE
Use harness and Tie-off
Watch hand & foot placement
Make Eye contact with EQ Operators
Be aware of surroundings
Verify H2S monitors
Drink water
Use trench Box or Stabilize/Bench embankment
Use Proper Lift Technique
Use ergonomic body positioning
Use ergonomic body positioning;

Responsible Person 7

Person 7

Analysis of Major Work Step 8

Work Step 8

--

Client	Star Fleet Energy			Location	Main Shop 2		Date/Time	6/22/17
Work Scope	API 570 Pipe Inspections							
Safe work Permit	No	Lock Out /Tag Out	Yes	Overhead or UG Powerlines	Yes	Primary Evac Location	0b8d854b-7a43-4f97-9afb-7b8e2ca17550	
Hot Work Permit	Yes	Review of Emergency Plan	Yes	Chemical Hazards		Secondary Evac Location	Confined Spaces; Extreme Weather;	
Confined Space Permit	Yes	Use Of Specialized PPE	Yes	Simultaneous Operations		Fire Extinguisher Location	1df54b3d-cf27-4555-a818-6b0a05d42eb3	
Excavation Permit	Yes	Protective Barricades	No	Other Concerns		Eye Wash Location	None	

Item	Job Step	Potential Hazard	Risk Level	Controls to be Implimented	Who Will Ensure this Happens
1	Job/Equipment Setup	Slip & Trip;	2	Watch hand & foot placement; Use trench Box or Stabilize/Bench embankment;	Person 1
2	Perform Inspection		1	Use ergonomic body positioning;	Person 2
3	Locate/Identify Work Focus Assets (Pipe Vessel etc.)	Extreme Weather;	3	Wear Proper PPE;	Person 3
4	Walk down/Survey work assets and area	Confined Spaces;	4	Watch hand & foot placement; Be aware of surroundings;	Person 5
5	Perform Inspection	Fall Potential;	5	Be aware of surroundings;	Person 5
6	Job/Equipment Breakdown		1	Drink water;	Person 6
7	Job/Equipment Setup	High Noise Level;	7	Use ergonomic body positioning;	Person 7
8					
Employee Name (Print)		Employee (Signature)		Employee Name (Print)	Employee (Signature)
Barney Rubble					
Popeye Sailor					
Fred Flintstone					
Minnie Mouse					

Safety Observation Checklist

Safety Observation Checklist

Date February 13, 2019 16:05  Now  Clear

Location Someplace

Technician / Inspector Name [Chew Bacca](#)  Select  Clear

Personal Protective Equipment

Hard hat, eye and face protection, and footwear

Safe Concerns

Concerns

Hearing protection, if required

Safe Concerns

Concerns

Protective clothing / gloves / safety vest

Safe Concerns

Concerns

Work Conditions

Work areas clean and free of slip or hazards

Safe Concerns

Concerns Some things laying on the ground.

Weather Conditions

Safe Concerns

Concerns

Adequate Lighting

Safe Concerns

Concerns

Proper Permits

Safe Concerns

Concerns

Signs, barricades, guards, rails, & safety equipment

Safe Concerns

Concerns

Contractor has made safe and secure access to jobsite

Safe Concerns

and testing areas

Concerns A little unsecured

Employee performing safe practices while coming in and

Safe Concerns

out of trench

Concerns

Body Positions/Body Mechanics

Clear of pinch points & sharp edges

Safe Concerns

Concerns

Eyes on path or work

Safe Concerns

Concerns

Body mechanics when lifting, reaching, pulling, pushing, &

Safe Concerns

carrying

Concerns

Action to protect others	Safe	Concerns
Concerns		
Adequate personnel for job	Safe	Concerns
Concerns		
Appropriate pace	Safe	Concerns
Concerns		

Tools and Equipment

Proper selection and use of tools	Safe	Concerns
Concerns		
Condition of tools	Safe	Concerns
Concerns	Some are old	
Location of tools	Safe	Concerns
Concerns		
Proper storing of equipment	Safe	Concerns
Concerns		

Vehicle

Condition (any noticeable damage)	Safe	Concerns
Concerns		
Vehicle parked in safe location on jobsite, turned off, & locked	Safe	Concerns
Concerns	Unlocked	
Wearing seat belt	Safe	Concerns
Concerns		
Comments	Some comments about the inspection.	
Corrective Action	How things get fixed.	
Observer's Signature	☒ Jenelle Wilcox 2/27/19 16:09	
Tech/Inspector's Signature	☐ Unsigned ☒ Sign as Jenelle Wilcox	



!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!

SAFETY OBSERVATION CHECKLIST

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 2/27/2019
Project. No: Star-Lab1
Client Project No: 45678

Project: ZMR Lab Testing and Inspection
Location: Someplace
Observer Name:

Date/Time: 2019-02-13T16:05:00-07:00
Technician/Inspector Name: Chew Bacca

PERSONAL PROTECTIVE EQUIPMENT	RESULTS	CONCERNS
Hard hat, eye and face protection, and footwear	Safe	
Hearing protection, if required	Safe	
Protective clothing / gloves / safety vest	Safe	

WORK CONDITIONS	RESULTS	CONCERNS
Work areas clean and free of slip or hazards	Concerns	Some things laying on the ground.
Weather Conditions	Safe	
Adequate Lighting	Safe	
Proper Permits	Safe	
Signs, barricades, guards, rails, & safety equipment	Safe	
Contractor has made safe and secure access to jobsite and testing areas	Concerns	A little unsecured
Employee performing safe practices while coming in and out of trench	Safe	

BODY POSITIONS/BODY MECHANICS	RESULTS	CONCERNS
Clear of pinch points & sharp edges	Safe	
Eyes on path or work	Safe	
Body mechanics when lifting, reaching, pulling, pushing, & carrying	Safe	
Action to protect others	Safe	
Adequate personnel for job	Safe	
Appropriate pace	Safe	

TOOLS AND EQUIPMENT	RESULTS	CONCERNS
Proper selection and use of tools	Safe	
Condition of tools	Concerns	Some are old
Location of tools	Safe	
Proper storing of equipment	Safe	

VEHICLE	RESULTS	CONCERNS
Condition (any noticeable damage)	Safe	
Vehicle parked in safe location on jobsite, turned off, & locked	Concerns	Unlocked
Wearing seat belt	Safe	

Comments: Some comments about the inspection.

Corrective Action: How things get fixed.

Observer: *Jenelle Wilcox* 2/27/19 16:09 **Technician/Inspector:** *Unsigned* Sign as Jenelle Wilcox

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/fcfc74d3-66a5-4068-cc43-8e8ecbdf9d8a>

Digital Signature By User Login

Path:Task/Form PROJECT MANAGEMENT / Star-Lab1 SafetyChklist 2/27 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Job Site Analysis

JOB SITE ANALYSIS

Job/Task to be Performed ☐ Field Testing ☒ Inspections

Date

Technician/Inspector

PERSONAL PROTECTIVE EQUIPMENT

Minimum - Hard Hat, Safety Glasses, Goggles, Ear Plugs, Gloves, Work Boots, Safety Vest

☒ Yes ☐ No

Additional

Knee Pads ☒ Yes ☐ No ☐ NA

Safety Harness & Lanyard ☒ Yes ☐ No ☐ NA

Rubber Gloves ☒ Yes ☐ No ☐ NA

Ear Muffs ☒ Yes ☐ No ☐ NA

Respirator ☒ Yes ☐ No ☐ NA

Other (List) ☒ Yes ☐ No ☐ NA

- Other safety supplies

GENERAL SAFETY

Is the access to the site a problem? ☒ Yes ☐ No

Concerns

Are the walking conditions a problem? ☐ Yes ☒ No

Concerns

Are there hazard materials on site? ☐ Yes ☒ No

Concerns

Has the contractor provided adequate traffic control? ☒ Yes ☐ No

Concerns

Is there adequate lighting to perform the tests/inspections? ☐ Yes ☒ No

Concerns

Weather presents a problem? ☐ Yes ☒ No

Concerns

Conflicting jobs in area? ☒ Yes ☐ No

Concerns

Barricades installed as needed? ☐ Yes ☒ No

Concerns

Work area clean, orderly & safe?

Yes

No

Concerns

Hoses and cords out of walkways?

Yes

No

Concerns

Drains properly covered?

Yes

No

Concerns

Tools/Equipment inspected and found safe?

Yes

No

Concerns

Concerns

SCAFFOLD USER INSPECTION

Does job require use of scaffold? (If yes, complete this section)

Yes

No

Top and mid rails in place?

Yes

No

Concerns

Toe Boards and falling object protection in place and secure?

Yes

No

Concerns

Weather conditions do not present a hazard?

Yes

No

Concerns

Planks in safe condition and secured?

Yes

No

Concerns

Personnel barriers installed on hot lines/equipment?

Yes

No

Concerns

Free of overhead hazards?

Yes

No

Concerns

Bars and clamps tight and secure?

Yes

No

Concerns

Ladders in place and secure?

Yes

No

Concerns

Holes in decks adequately covered?

Yes

No

Concerns

Free of slipping and/or tripping hazards?

Yes

No

Concerns

Scaffolding properly tagged?

Yes

No

Concerns

TRENCH SAFETY

Does job require entering into a trench? (If yes, complete this section)

Yes

No

Trench is more than 5 feet and protective system is in place?

Yes

No

Concerns

Trench is more than 20 feet and protective system has been designed by a professional engineer?

Yes

No

Concerns

The trench does not have cracking on soil surface and trench walls?

Yes

No

Concerns

Soils spoils are 2 feet minimum from trench edges and heavy equipment is away from the trench sides?

Yes

No

Concerns

Safe access and egress has been provided?

Yes

No

Concerns

A competent person has been identified?

Yes

No

Concerns



JOB SITE ANALYSIS

Client: Star Fleet Construction
Address: 3166 Decker Dr. Baytown, Texas 77520

Report Date: 2/27/2019
Project. No: Star-Lab1
Client Project No: 45678

Project: ZMR Lab Testing and Inspection

Date: 1/30/19

Observer Name: Jenelle Wilcox

Job/Task to be Performed: Field Testing

Technician/Inspector Name: Jenelle Wilcox

PERSONAL PROTECTIVE EQUIPMENT		ADDITIONAL			
Yes	MINIMUM	Yes	Knee Pads	Yes	Ear Muffs
Hard Hat, Safety Glasses, Goggles, Ear Plugs, Gloves, Work Boots, Safety Vest		Yes	Safety Harness & Lanyard	Yes	Respirator
		Yes	Rubber Gloves	NA	Other (List)

GENERAL SAFETY	RESULTS	CONCERNS
Is the access to the site a problem?	No	Some concerns
Are the walking conditions a problem?	Yes	
Are there hazard materials on site?	Yes	
Has the contractor provided adequate traffic control?	No	Big Concerns
Is there adequate lighting to perform the tests/inspections?	Yes	
Weather presents a problem?	Yes	
Conflicting jobs in area?	No	Little Concerns
Barricades installed as needed?	Yes	
Work area clean, orderly & safe?	Yes	
Hoses and cords out of walkways?	Yes	
Drains properly covered?	Yes	
Tools/Equipment inspected and found safe?	Yes	Concerns

SCAFFOLDING USER INSPECTION	Required?	No	RESULTS	CONCERNS
Top and mid rails in place?				
Toe Boards and falling object protection in place and secure?				
Weather conditions do not present a hazard?				
Planks in safe condition and secured?				
Personnel barriers installed on hot lines/equipment?				
Free of overhead hazards?				
Ladders in place and secure?				
Holes in decks adequately covered?				
Free of slipping and/or tripping hazards?				
Scaffolding properly tagged?				

TRENCH SAFETY	Required?	No	RESULTS	CONCERNS
Trench is more than 5 feet and protective system is in place?				
Trench is more than 20 feet and protective system has been designed by a professional engineer?				
The trench does not have cracking on soil surface and trench walls?				
Soils spoils are 2 feet minimum from trench edges and heavy equipment is away from the trench sides?				
Safe access and egress has been provided?				
A competent person has been identified?				

Observer:

Digital Signature By User Login

System Link: <http://demo.Vahalo.com/assignments/ef63ec3c-6be4-4cce-eeef-fc7019a14561>

Path:Task/Form PROJECT MANAGEMENT / Star-Lab1 JobSiteAnalysis 1/30 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.

Issue Resolution

Reports

[Assignment Summary](#)
[Web-Issue Resolution Report](#)
[Pmt-Issue Resolution](#)

Select the Resolution Process below that applies to this issue and Follow the steps outlined.

Resolution Process	NCR
Resolution Outline	NCR - Non-Conformance report USE WHEN – Issue has a potentially significant impact on project quality, schedule, price or safety and must be review by all parties. . PRIORITY/CRITICALITY - Required DESCRIPTION OF ISSUE – Required – include reference to part of contract documents that have been breached. PHOTO OF ISSUE – Required - Include additional photos as necessary on the "Attachments" Page. PRODUCTION FOREMAN NOTIFIED – NA OWNERS REP NOTIFIED - NA PROCESS JUSTIFICATION THRU APPROVE COMPLETED RESOLUTION - OWNER'S REPRESENTATIVE - Required
Location Map Marker	42.4092392,-96.7045018 Here Map Clear
Issue ID	123ID
Station	32
Offset	54
Offset Left/Right	☐ LT ☒ RT
Location Details	Details of this location
Priority/Criticality	Priority 2 (Action Needed)
Description of Issue	Issue description

Photo of Issue



No attachment selected

[Take a picture](#)
[Upload a file](#)
[Pick existing file](#)
[Clear](#)

Production Forman Notified	May 23, 2019 15:45	☒ Now Clear
Owners Rep Notified	May 23, 2019 19:45	☒ Now Clear
Process Justification	Just justifying the processes	
Resolution Detail	This is how it needs to be fixed	
Approve Process -	☒ Jenelle Wilcox 5/31/19 15:48	
Production Manager		
Approve Process -Owner's Representative	☐ Unsigned ☒ Sign as Jenelle Wilcox	

Verification Re-Inspection

Re-Inspection Date	May 31, 2019	☒ Today Clear
Verification Comments	Everything looks great	
Inspected By		
Verified Complete - Original Inspector	☒ Jenelle Wilcox 5/31/19 15:48	

Cost/Schedule Impact	No problems
Comments	

Approve Completed ☒ Jenelle Wilcox 7/8/19 13:56

Resolution - Production
Manager

Approve Completed ☐ Unsigned ☒ Sign as Jenelle Wilcox

Resolution - Owner's
Representative

!!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!! !!!PRELIMINARY!!!



Issue Resolution Report (Any Process)

Process:NCR

Report Date: 7/31/2019

Client: Star Fleet Construction

Address: 3166 Decker Dr. Baytown, Texas 77520

Criticality: Priority 2 (Action Needed)

Pay Item:

Project: ZMR Lab Testing and Inspection

Location: Details of this location

Re-Inspection Date: 7/9/19

Project No: Star-Lab1

Client Project No: 45678

Issue ID: 123ID

Foreman Notified: 5/23/19 15:45

Owner's Rep Notified: 5/23/19 19:45

Description of Issue: Issue description

Process Justifications: Just justifying the processes

Proposed Resolution Detail: This is how it needs to be fixed

Approve Process & Resolution - Production Manager: *Jenelle Wilcox*

Approve Process & Resolution - Owner's Rep:

Verification Re-Inspection

Verification Comments: Everything looks great

Verified Complete - Re-Inspection Inspector: *Jenelle Wilcox*

Cost/Schedule Impact Comments: No problems

Approve Resolution - Production Manager: *Jenelle Wilcox*

Approve Resolution - Owner's Rep:

Approve Resolution - QA Manager:

System Link: <http://demo.Vahalo.com/assignments/15af3aa3-20bc-4153-c9fe-74bce6f7b610>

Page 1

Path:Task/Form PLYWOOD NAILING / Civ-Insp ChkList Nailing / Star-Lab1 IssueResolution 5/31 JW

* Results reported are only related to items tested and inspected. * Reports shall not be reproduced, except in full, without the prior written approval of the agency. * Complies with approved project plans and specifications and other reporting requirements of the Client, The Building Official, or relevant authority.