

LABORATORY REPORT ON SOIL

STE 200 PHOENIX, AZ 85020 Project NDOT BETTERMENT FUNDING PROJECTS - LAB WORK Contractor N/A Type / Use of Material NATIVE MATERIAL/SUBGRADE Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Reference: PARTICLE SIZE ANALYSIS OF SOIL ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	Source N21 KAIBITO, AZ/ONSITE cocation Desig. By WT/T. MOORE Date 01-12- T88 ASTM D2434 ES 1 SPECIFIC GRAVITY → 2.65 ASTM D85 ASSUMED				
STE 200 PHOENIX, AZ 85020 Project NDOT BETTERMENT FUNDING PROJECTS - LAB WORK Contractor N/A Type / Use of Material NATIVE MATERIAL/SUBGRADE Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Reference: PARTICLE SIZE ANALYSIS OF SOIL ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DISPICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	Authorized By TIM WOLFE Sampled By WT/T. MOORE Submitted By WT/T. MOORE PARMINGTON LAB, NM Source N21 KAIBITO, AZ/ONSITE Cocation Desig. By WT/T. MOORE ASTM D2434 ES 1 SPECIFIC GRAVITY Date 01-12- Date 01-13- Date 01-				
PHOENIX, AZ 85020 Project NDOT BETTERMENT FUNDING PROJECTS - LAB WORK Contractor N/A Type / Use of Material NATIVE MATERIAL/SUBGRADE Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Reference: PARTICLE SIZE ANALYSIS OF SOIL ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DISPERSION DEVICE MALT MACHINE DISPERSION OF SAND & GRAVEL PARTICLES: HARD SOFT FRIABLE ROUNCE SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	Sampled By WT/T. MOORE Submitted By WT/T. MOORE Date 01-12- Date 01-13- FARMINGTON LAB, NM gr. N/A Source N21 KAIBITO, AZ/ONSITE occation Desig. By WT/T. MOORE Date 01-12- T88 ASTM D2434 ES 1 SPECIFIC GRAVITY > 2.65 ASTM D85 X ASSUMED				
Project NDOT BETTERMENT FUNDING PROJECTS - LAB WORK Contractor N/A Type / Use of Material NATIVE MATERIAL/SUBGRADE Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Reference: PARTICLE SIZE ANALYSIS OF SOIL X ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DISPERSION DEVICE MALT MACHINE DISPERSION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	Submitted By WT/T. MOORE FARMINGTON LAB, NM gr. N/A Source N21 KAIBITO, AZ/ONSITE ocation Desig. By WT/T. MOORE T88 ASTM D2434 ES 1 SPECIFIC GRAVITY 2.65 ASTM D85 X ASSUMED				
Contractor N/A Arch./Eng Type / Use of Material NATIVE MATERIAL/SUBGRADE Supplier / S Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Reference: PARTICLE SIZE ANALYSIS OF SOIL X ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	FARMINGTON LAB, NM or. N/A Source N21 KAIBITO, AZ/ONSITE occation Desig. By WT/T. MOORE Date 01-12- T88 ASTM D2434 ES 1 SPECIFIC GRAVITY 2.65 ASTM D85 X ASSUMED				
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Type / Use of Material NATIVE MATERIAL/SUBGRADE Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAST D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE LENGTH OF DISPERSION PERIOD, MINUTE DISPERSION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	Source N21 KAIBITO, AZ/ONSITE Location Desig. By WT/T. MOORE Date 01-12- T88 ASTM D2434 ES 1 SPECIFIC GRAVITY > 2.65 ASTM D85				
Sample Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PAVE Source / Location N21 3.5M WEST OF EAST END OF PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE LENGTH OF DISPERSION PERIOD, MINUTE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUNCE SIEVE ANALYSIS LIQUID	ocation Desig. By WT/T. MOORE Date 01-12- T88 ASTM D2434 ES 1 SPECIFIC GRAVITY 2.65 ASTM D85 X ASSUMED				
Reference: PARTICLE SIZE ANALYSIS OF SOIL X ASTM D422 AASHTO HYDRAULIC CONDUCTIVITY ASTM D5084 METHOD Special Instructions: TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	T88 ASTM D2434 ES 1 SPECIFIC GRAVITY > 2.65 ASTM D85 X ASSUMED				
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TEST RESULTS PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MACHINE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	ES 1 SPECIFIC GRAVITY → 2.65 ASTM D85				
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DISPERSION DEVICE MALT MACHINE DIFFICULTY IN DISPERSING MINUS NO. 10 MATERIAL NONE DESCRIPTION OF SAND & GRAVEL PARTICLES: HARD X SOFT FRIABLE ROUND SIEVE ANALYSIS HYDROMETER ANALYSIS LIQUID	X ASSUMED				
Lidoli					
PIEVE CIZE W DAGS DARTICLE CIZE W DAGS	D & PLASTIC PROPERTIES				
SIEVE SIZE % PASS PARTICLE SIZE % PASS AS	STM D4318 X AASHTO T89 & T90				
3 IN. 0.074 MM 15.9 METHO 2 IN. LIQUID	DD X A B RESULT SPECIFICATION NO VALUE				
	IC LIMIT NO LIMIT				
	PLASTICITY INDEX NO PLASTICITY				
	SAMPLE AIR DRIED: X YES NO				
	ATE % RETAINED ON NO. 40				
NO. 4 90.5 0.002 MM 6.5					
	CLASSIFICATION STM D2487 X AASHTO M145				
	STM D2487 VISUAL / MANUAL				
	SYMBOL A-2-4				
200 15.9 GROUP	NAME				
HYDRAULIC CONDUCTIVITY					
SPECIMEN CHARACTERIS					
	ID RATIO SATURATION, % TYPE				
INITIAL FINAL	☐ REMOLDED ☐ UNDISTURBED				
	IMUM CONSOLIDATION EFFECTIVE STRESS, PSI → IMUM CONSOLIDATION EFFECTIVE STRESS, PSI → HYDRAULIC GRADIENT → HYDRAULIC CONDUCTIVITY, CM PER SECOND →				

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	B. JENKINS	
REVIEWED BY		_



LABORATORY REPORT ON SOIL

				Date o	Report 02-07-1	7	
Client DIBBLE ENGIN	EERING				Job No. 3147JV	005	
7500 NORTH I	DREAMY DRAW DI	RIVE		Event / Inve	oice No. 314700	13 L	ab No. 3049
STE 200				Autho	rized By TIM WO	LEE	Date 01-12-17
PHOENIX, AZ	85020				pled By WT/T. N		Date 01-12-17
	00020				itted By WT/T. N		Date 01-13-17
Designed NDOT BETTE	DMENT CUMPING	DO IECTO LAB M	ODV .		,	NOORE	Date 01-13-17
Project NDOT BETTE	KIVIENT FUNDING	ROJECIS - LAB W		cation FARMING	ON LAB, NIVI		
Contractor N/A				ch./Engr. N/A			
Type / Use of Material				pplier / Source N2			
Sample Source / Locar			-	ource / Location D	esig.By WT/T.N	100RE	Date 01-12-17
Reference: PARTICLE	SIZE ANALYSIS	OF SOIL 🛛 ASTN	1 D422 🔲 A	ASHTO T88			
HYDRAUI	LIC CONDUCTIVIT	Y 🗌 ASTM D508	84 METHOD	ASTM D	2434		
Special Instructions:							
			TEST RES	SULTS			
PARTICLE SIZE ANAL	YSIS						
DISPERSION DEVICE N	MALT MACHINE	LENGTH OF DIS	PERSION PERIOD	, MINUTES 1	SPECIFIC GR	AVITY → 2.65	ASTM D854
DIFFICULTY IN DISPERS	ING MINUS NO. 10 M						X ASSUMED
DESCRIPTION OF SAND	& GRAVEL PARTICLE	S: \square HARD $old X$ SOF	T FRIABLE [ROUNDED A	NGULAR MAX	MUM PARTICLE S	IZE, IN. #10
SIEVE ANAL	Vele	HYDROMETER A	ANIALVEIC				
SIEVE SIZE	% PASS	PARTICLE SIZE	% PASS		TIC PROPERTIES		
3 IN.:	70 111100	0.074 MM	15.9	METHOD X A	X AASHTO T89 8		- ADEQUEUS A TION
2 IN.		0.074 101101	15.5	LIQUID LIMIT] B	RESULT 17	SPECIFICATION
1 1/2 IN		0.020 MM	11.3	PLASTIC LIMIT		15	
1 IN.				PLASTICITY INDEX	(2	
3/4	100	0.005 MM	9.5	SAMPLE AIR DRIE	: X YES NO		λ.
3/8	97.6			ESTIMATE % RET	AINED ON NO. 40		
NO. 4	90.5	0.002 MM	8.2				
8	84.6			SOIL CLASSIFIC			
10	82.9	0.001 MM	6.8		X AASHTO M145		
40	68.0				VISUAL / MANUAL		
50	60.4 15.9			GROUP SYMBOL	A-2-6		
200	15.9			GROUP NAME			
HYDRAULIC CONDUCT	IVITY						
		SP	ECIMEN CHAR	ACTERISTIC			
HEIGHT	, IN. DIAMETER,	IN. DENSITY, PCF	MOISTURE, %	VOID RATIO	SATURATION, %		ГҮРЕ
INITIAL						REMOLDED	
FINAL						UNDISTUR	BED
SPECIFIC GRAVITY ->	ASTM				SOLIDATION EFFECT		
DEDIAL LUE	ASSUM	ED		MINIMUM CONS	SOLIDATION EFFECT		
PERMEANT	DCI A			/IVDB 4111		AULIC GRADIENT	
TOTAL BACK PRESSURE	, rai 7			HYDRAULI	C CONDUCTIVITY,	CM PER SECOND	7

Comments: GRAVEL = 9.5%, SAND = 74.6%, SILT = 6.3%, CLAY = 9.5%, COLLOIDS = 6.8%

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	B. JENKINS	
REVIEWED BY		



LABORATORY REPORT ON SOIL

lient DIBBLE ENGINE				Date of Report 02-16-17			
	ERING			Job No. 3147JV00)5		
7500 NORTH D	REAMY DRAW D	RIVE		Event / Invoice No. 31470013	Lab No. 3051		
STE 200				Authorized By TIM WOLF	E Date 01-12-17		
PHOENIX, AZ 8	5020			Sampled By WT/T. MO	ORE Date 01-12-17		
				Submitted By WT/T. MC			
roject NDOT BETTER	MENT FUNDING	PROJECTS – LAB W	ORK Loc	eation FARMINGTON LAB, NM			
Contractor N/A				ch. / Engr. N/A			
ype / Use of Material	NATIVE MATERI	AL/SUBGRADE		oplier / Source N21 KAIBITO, AZ/ON	SITE		
ample Source / Locati				ource / Location Desig. By WT/T. MC			
eference: PARTICLE							
		TY ASTM D508		☐ ASTM D2434			
	io combocity:	11 _ A0111 D300	- WILLING	AOTHI DZ404			
pecial Instructions:							
			TEST RES	ULTS			
DARTICLE CIZE ANALY	1616						
DISPERSION DEVICE MA		LENGTH OF DIS	DERSION DERIOR	, MINUTES 1 SPECIFIC GRAV	VITY → 2.65 ASTM D854		
DIFFICULTY IN DISPERSI			TENSION TENIOL	, MINOTES - SI ESITIO SILA	X ASSUMED		
DESCRIPTION OF SAND			FRIABLE	ROUNDED ANGULAR MAXIM	UM PARTICLE SIZE, IN. #10		
2,5,45	va.a	100000000000000000000000000000000000000					
SIEVE ANALY	% PASS	HYDROMETER A PARTICLE SIZE	% PASS	LIQUID & PLASTIC PROPERTIES			
	70 PASS		56.7	ASTM D4318 X AASHTO T89 & T			
3 IN. 2 IN.		0.074 MM	56.7	LIQUID LIMIT	RESULT SPECIFICATION 29		
1 1/2 IN.		0.020 MM	44.0				
1 IN.		0.020		PLASTICITY INDEX 16			
		0.005 MM	36.1	6.1 SAMPLE AIR DRIED: X YES NO			
• • • • • • • • • • • • • • • • • • • •				ESTIMATE % RETAINED ON NO. 40			
3/8	99.7			ESTIMATE % RETAINED ON NO. 40			
3/8 NO. 4	97.9	0,002 MM	32.0				
3/8 NO. 4 8	97.9 96.8			SOIL CLASSIFICATION			
3/8 NO. 4 8 10	97.9 96.8 96.6	0,002 MM 0.001 MM	32.0 28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145			
3/8 NO. 4 8 10 40	97.9 96.8 96.6 95.7			SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL			
3/8 NO. 4 8 10 40 50	97.9 96.8 96.6			SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6			
3/8 NO. 4 8 10 40 50 200	97.9 96.8 96.6 95.7 91.8 56.7			SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL			
3/8 NO. 4 8 10 40 50	97.9 96.8 96.6 95.7 91.8 56.7	0.001 MM	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME			
3/8 NO. 4 8 10 40 50 200	97.9 96.8 96.6 95.7 91.8 56.7	0.001 MM	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME	TVDS		
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI	97.9 96.8 96.6 95.7 91.8 56.7	0.001 MM	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME	TYPE		
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI	97.9 96.8 96.6 95.7 91.8 56.7	0.001 MM	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME	REMOLDED		
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI	97.9 96.8 96.6 95.7 91.8 56.7	0.001 MM	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME			
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI	97.9 96.8 96.6 95.7 91.8 56.7 VITY	O.001 MM SP , IN. DENSITY, PCF	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME	REMOLDED UNDISTURBED		
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI INITIAL FINAL	97.9 96.8 96.6 95.7 91.8 56.7 VITY	O.001 MM SP , IN. DENSITY, PCF	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME ACTERISTIC VOID RATIO SATURATION, %	REMOLDED UNDISTURBED VE STRESS, PSI →		
3/8 NO. 4 8 10 40 50 200 IYDRAULIC CONDUCTI INITIAL FINAL	97.9 96.8 96.6 95.7 91.8 56.7 VITY	O.001 MM SP , IN. DENSITY, PCF	28.8	SOIL CLASSIFICATION ASTM D2487 X AASHTO M145 ASTM D2488 VISUAL / MANUAL GROUP SYMBOL A-6 GROUP NAME ACTERISTIC VOID RATIO SATURATION, % MAXIMUM CONSOLIDATION EFFECTIV MINIMUM CONSOLIDATION EFFECTIV	REMOLDED UNDISTURBED VE STRESS, PSI →		

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		B. JENKINS	
REVIEWED BY	REVIEWED BY		



LABORATORY REPORT ON SOIL

					Date of	Report 02-16-1	7	
Client DIBE	BLE ENGINEERIN	G			,	Job No. 3147JV	005	
750	0 NORTH DREAM	MY DRAW DRIVI	E		Event / Invo	oice No. 314700	13 La	b No. 3052
STE	200				Author	rized By TIM WO	LFE	Date 01-12-17
PHO	ENIX, AZ 85020					pled By WT/T. M		Date 01-12-17
						itted By WT/T. N		Date 01-13-17
Project ND	OT RETTERMEN	T FUNDING PRO	JECTS - LAB W	OBK I	cation FARMINGT		.00112	Date of 15 17
Contractor			OLOTO LAB W			ON LAB, NIVI		
	of Material NAT	IVE MATERIAL	CHECEVE		ch./Engr. N/A	1 KAIRITO 47/0	NEITE	
					pplier / Source N2			04.40.47
•			T OF EAST END	_	ource / Location De	esig. By WI/I. M	OURE	Date 01-12-17
Reference:			SOIL X ASTM		АЅНТО Т88			
		ONDUCTIVITY	ASTM D508	4 METHOD	ASTM D2	2434		
Special Inst	ructions:							
				TEST RES	ен те			
DISPERSION	SIZE ANALYSIS I DEVICE MALT N IN DISPERSING MI IN OF SAND & GRA	NUS NO. 10 MATE	RIAL NONE		o, MINUTES 1		AVITY → 2.65	ASTM D854 X ASSUMED E, IN. #10
	SIEVE ANALYSIS		HYDROMETER A	NALVEIC				
	VE SIZE	% PASS	PARTICLE SIZE	% PASS	LIQUID & PLAST			
	B IN.	7. T.T.G.	0.074 MM	12.1	METHOD X A	X AASHTO T89 &	T90 RESULT	
	2 IN.		0.074 101101	12.1	LIQUID LIMIT] 6	NO VALUE	SPECIFICATION
	1/2 IN.		0.020 MM	3.8	PLASTIC LIMIT		NO LIMIT	
1	I IN.				PLASTICITY INDEX	:	NO PLASTICIT	Υ
	3/4	100	0.005 MM	2.8	SAMPLE AIR DRIED	: X YES _ NO		
	3/8	97.6			ESTIMATE % RETA	AINED ON NO. 40		
N	IO. 4 8	96.1 94.5	0.002 MM	2.8				
	10	94.1	0.001 MM	2.8	SOIL CLASSIFIC	X AASHTO M145		
	40	87.4	O.OOT WIN	2.0	1 =	VISUAL / MANUAL		
	50	76.3			GROUP SYMBOL			
	200	12.1			GROUP NAME			
HYDRAULIC	CONDUCTIVITY					_		
			SPI	ECIMEN CHAR	ACTERISTIC			
	HEIGHT, IN.	DIAMETER, IN.	DENSITY, PCF	MOISTURE, %	VOID RATIO	SATURATION, %	TY	PE
INITIAL FINAL							REMOLDED UNDISTURBE	D
SPECIFIC GR PERMEANT TOTAL BACK	AVITY ->	ASTM D85	4		MINIMUM CONS	COLIDATION EFFECT COLIDATION EFFECT HYDRA C CONDUCTIVITY, (IVE STRESS, PSI =	

Comments: GRAVEL = 3.9%, SAND = 84.0%, SILT = 9.3%, CLAY = 2.8%, COLLOIDS = 2.8%

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Farmington, New Mexico 87401-5943
(505) 327-4966 • wt-us.com

LABORATORY REPORT ON SOIL

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REVIEWED BY____

B. JENKINS

					Date of	Report 02-10-1	7		
Client DIBE	BLE ENGINEERIN	G			J	ob No. 3147JV	005		
750	O NORTH DREA	MY DRAW DRIVE			Event / Invoi	ce No. 314700	13 Lab I	No. 3053	
STE	200				Authori	zed By TIM WO	LFE D	ate 01-12-17	
PHO	ENIX, AZ 85020	o			Samo	led By WT/T. N	100RE D	ate 01-12-17	
						ted By WT/T. N		ate 01-13-17	
Project NC	OT RETTERMEN	IT FUNDING PRO	IECTS - LAR W	ORK Loc	ation FARMINGT				
Contractor		IT TOTAL TITLE	SECTO EAD W			SIE EAD, IEI			
		TIVE MATERIAL (C	LIDODADE		h./Engr. N/A	VAIRITO AZ/O	MOITE		
• • • • • • • • • • • • • • • • • • • •		TIVE MATERIAL/S			plier / Source N21			. 01 12 17	
		N21 16.0M W. 0			urce / Location De	sig.By WVI/I.N	NOORE D	ate 01-12-17	
Reference:		ANALYSIS OF	_						
		ONDUCTIVITY	AS INI D 508	4 WEIHOD	☐ ASTM D2	434			
Special Inst	tructions:								
				TEST RES	ULTS				
PARTICLE	SIZE ANALYSIS								
DISPERSION	N DEVICE MALT	MACHINE	LENGTH OF DIS	PERSION PERIOD	, MINUTES 1	SPECIFIC GR	AVITY → 2.65	ASTM D854	
DIFFICULTY	IN DISPERSING M	INUS NO. 10 MATE	RIAL NONE					ASSUMED	
DESCRIPTION	ON OF SAND & GR	AVEL PARTICLES:	X HARD SOF	FRIABLE	ROUNDED AN	GULAR MAX	IMUM PARTICLE SIŻE,	_{IN.} #10	
	SIEVE ANALYSIS	W 5100	HYDROMETER A		LIQUID & PLAST				
	EVE SIZE	% PASS	PARTICLE SIZE	% PASS	ASTM D4318	_			
	3 IN.		0.074 MM	31.9	METHOD X A	В	NO VALUE	SPECIFICATION	
	2 IN. 1/2 IN.		0.020 MM	5.3					
	1/2 IN.	100	0.020 101101	5.5	PLASTIC LIMIT		NO PLASTICITY		
	3/4	99.0	0.005 MM	3.7	SAMPLE AIR DRIED	· X YES NO	NO TEROMONI		
	3/8	97.9	0.000 111111		ESTIMATE % RETA				
ı	NO. 4	96.1	0.002 MM	3.7					
	8	92.1			SOIL CLASSIFIC	ATION			
	10	90.8	0.001 MM	3.7		X AASHTO M145			
	40	86.4			_	/ISUAL / MANUAL			
	50	78.2 31.9			GROUP SYMBOL	A-2-4			
	200	31.9			GROUP NAME				
HYDRAULIC	CONDUCTIVITY								
	HEIGHT, IN.	DIAMETER, IN.	DENSITY, PCF	MOISTURE, %	VOID RATIO	SATURATION, %	TYPE		
INITIAL	HEIGHT, IN.	DIAMETER, IN.	DENSITT, FCF	WIOISTONE, %	VOID RATIO	SATORATION, //			
FINAL							REMOLDED UNDISTURBED		
THAL							ONDISTORBED		
SPECIFIC G	RAVITY →	ASTM D85	4		MAXIMUM CONS	OLIDATION EFFEC	TIVE STRESS, PSI 🗲		
		ASSUMED			MINIMUM CONS	OLIDATION EFFEC	TIVE STRESS, PSI 🗲		
PERMEANT							RAULIC GRADIENT >		
TOTAL BAC	CK PRESSURE, PSI	→			HYDRAULI	C CONDUCTIVITY,	CM PER SECOND →		
TOTAL BAC	CK PRESSURE, PSI	→			HYDRAULI	CONDUCTIVITY,	CM PER SECOND →		
Comments	GRAVEL = 3.9	9%, SAND = 64.	2%, SILT = 28.	2%, CLAY = 3	3.7%, COLLOIDS	= 3.7%			



LABORATORY REPORT ON SOIL

					Date of	Report 02-10-	17			
Client DIBE	LE ENGINEERIN	G			J	ob No. 3147J\	/005			
750	NORTH DREAM	VIY DRAW DRIV	E		Event / Invo	ice No. 31470 0	013	Lab No. 3054		
STE	200				Authori	zed By TIM W	OLFE	Date 01-12-17		
PHO	ENIX, AZ 85020				Samp	oled By WT/T. I	MOORE	Date 01-12-17		
					Submit	tted By WT/T.	MOORE	Date 01-13-17		
Project ND	OT BETTERMEN	T FUNDING PRO	JECTS - LAB W	ORK Loc	Location FARMINGTON LAB, NM					
Contractor	N/A			Arc	ch./Engr. N/A					
Type / Use o	of Material NAT	IVE MATERIAL/	SUBGRADE		pplier / Source N21	I KAIBITO, AZ/	ONSITE			
, ,			OF E. END OF PA		ource / Location De			Date 01-12-17		
			SOIL X ASTN			g. 27				
			ASTM D508		ASTM D2	434				
Special Inst										
opoolal mot	401101101									
				TEST RES	ULTS					
DIFFICULTY	DEVICE MALT IN DISPERSING MIN OF SAND & GRA	NUS NO. 10 MATE		PERSION PERIOD			RAVITY → 2.65	X ASSUMED		
	SIEVE ANALYSIS		HYDROMETER A	NALYSIS	LIQUID & PLAST	IC DRODEDTIES				
SIE	VE SIZE	% PASS	PARTICLE SIZE	% PASS	ASTM D4318		& T90			
3	IN.		0.074 MM	34.7	METHOD X A		RESULT	SPECIFICATION		
2	IN.				LIQUID LIMIT		16			
	/2 IN.		0.020 MM	9.2	PLASTIC LIMIT		16 0			
	IN. 3/4	100	0:005 MM	8.9	PLASTICITY INDEX SAMPLE AIR DRIED		U			
	3/8	98.2	0.003 101101	0.5	ESTIMATE % RETA					
N	0. 4	94.3	0.002 MM	7.8						
	8	90.5			SOIL CLASSIFICA	- Control of the Cont				
	10	89.5	0.001 MM	7.1	ASTM D2487	_	5			
	40 50	82.2 69.9			GROUP SYMBOL	/ISUAL / MANUAL A_2_6				
	200	34.7			GROUP SYMBOL A	A-2-0				
HYDRAULIC	CONDUCTIVITY	-								
			SP	ECIMEN CHARA	ACTERISTIC					
	HEIGHT, IN.	DIAMETER, IN-	DENSITY, PCF	MOISTURE, %	VOID RATIO	SATURATION, %		TYPE		
INITIAL FINAL							REMOLDE UNDISTU			
SPECIFIC GR PERMEANT TOTAL BACK	AVITY →	ASTM D85	4			OLIDATION EFFEC	TIVE STRESS, PS	SI → T →		

 $Comments: \ GRAVEL \ = \ 5.7\%, \ SAND \ = \ 59.6\%, \ SILT \ = \ 25.7\%, \ CLAY \ = \ 8.9\%, \ COLLOIDS \ = \ 7.1\%$

Copies To:

423@95WTI

THE SERVICES REFERRED TO HEREIN WERE PERFORMED IN ACCORDANCE WITH THE STANDARD OF CARE PRACTICED LOCALLY FOR THE REFERENCED METHOD(S) AND RELATE ONLY TO THE CONDITION(S) OR SAMPLE(S) TESTED AS STATED HEREIN. WESTERN TECHNOLOGIES INC. MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, AND HAS NOT CONFIRMED INFORMATION INCLUDING SOURCE OF MATERIALS SUBMITTED BY OTHERS.

	B. JENKINS
REVIEWED BY	



LABORATORY REPORT ON SOIL

Client DIBBLE ENGINEERING 7500 NORTH DREAMY STE 200 PHOENIX, AZ 85020 Project NDOT BETTERMENT Contractor N/A Type / Use of Material NATIV		ECTS – LAB WO		Event / Invo Author Sam	ob No. 3147JV6 ice No. 314700 ized By TIM WO bled By WT/T. N	13 Lab LFE IOORE	No. 3055 Date 01-12-17 Date 01-12-17
STE 200 PHOENIX, AZ 85020 Project NDOT BETTERMENT Contractor N/A Type / Use of Material NATIV		ECTS – LAB WO	201	Author Sam	ized By TIM WO oled By WT/T. N	LFE IOORE	Date 01-12-17
PHOENIX, AZ 85020 Project NDOT BETTERMENT Contractor N/A Type / Use of Material NATIV	FUNDING PROJ	ECTS – LAB W(201	Sam	oled By WT/T. N	IOORE	
Project NDOT BETTERMENT Contractor N/A Type / Use of Material NATIV	FUNDING PROJ	ECTS – LAB W(201				Data 01-12-17
Contractor N/A Type / Use of Material NATIV	FUNDING PROJ	ECTS – LAB WO	2014	Submi	NAST (T. B.		Date 01-12-17
Contractor N/A Type / Use of Material NATIV	FUNDING PROJ	ECTS - LAB WO			tted By WT/T. N	/IOORE	Date 01-13-17
Гуре / Use of Material NATIV			JRK Loc	cation FARMINGT			
••			Arc	ch. / Engr. N/A			
	E MATERIAL/S	UBGRADE	Su	pplier / Source N2	1 KAIBITO, AZ/O	NSITE	
Sample Source / Location N2	21 23.3M W. O	F E. END OF PA	VE So	ource / Location De	sig. By WT/T. N	OORE	Date 01-12-17
Reference: PARTICLE SIZE A							
HYDRAULIC CON	IDUCTIVITY	ASTM D508	4 METHOD	ASTM D2	434		
Special Instructions:							
			TEST RES	BULTS			
PARTICLE SIZE ANALYSIS DISPERSION DEVICE MALT MA DIFFICULTY IN DISPERSING MINU DESCRIPTION OF SAND & GRAVE	JS NO. 10 MATER			, MINUTES 1		AVITY > 2.65	ASTM D854 X ASSUMED E, IN. #10
SIEVE ANALYSIS		HYDROMETER A	NALYSIS	LIQUID & PLAST	IC PROPERTIES		
SIEVE SIZE %	PASS	PARTICLE SIZE	% PASS		X AASHTO T89 8	¥ T90	
3 IN.		0.074 MM	10.4	METHOD X A		RESULT	SPECIFICATION
2 IN.			LIQUID LIMIT NO VALUE				
1 1/2 IN.		0.020 MM	6.4	PLASTIC LIMIT		NO LIMIT	
1 IN. 3/4	100	0.005 MM	4.6	PLASTICITY INDEX NO PLASTICITY 4.6 SAMPLE AIR DRIED: X YES NO			
3/8	95.5	0.005 IVIN	4.0	ESTIMATE % RETA			
NO. 4	89.7	0.002 MM	4.1				
8	83.1			SOIL CLASSIFIC			
10	81.7	0.001 MM	4.1	-	X AASHTO M145		
40	75.1 64.1			GROUP SYMBOL	VISUAL / MANUAL		
50 200	10.4			GROUP SYMBOL	A-3		
200	10.4			GNOOF NAME			
HYDRAULIC CONDUCTIVITY							
			ECIMEN CHAR				
HEIGHT, IN.	DIAMETER, IN.	DENSITY, PCF	MOISTURE, %	VOID RATIO	SATURATION, %	TY	PE
INITIAL						REMOLDED UNDISTURBE	D.
FINAL						UNDISTURBE	1
SPECIFIC GRAVITY →	ASTM D854	1				TIVE STRESS, PSI 🕇	
PERMEANT						RAULIC GRADIENT 🗗	
TOTAL BACK PRESSURE, PSI >				HYDRAULI	C CONDUCTIVITY,	CM PER SECOND -	

423@95WTI

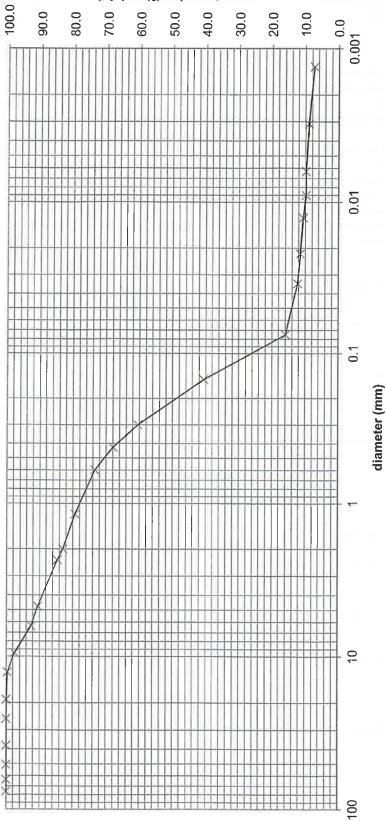
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	B. JENKINS	
REVIEWED BY		



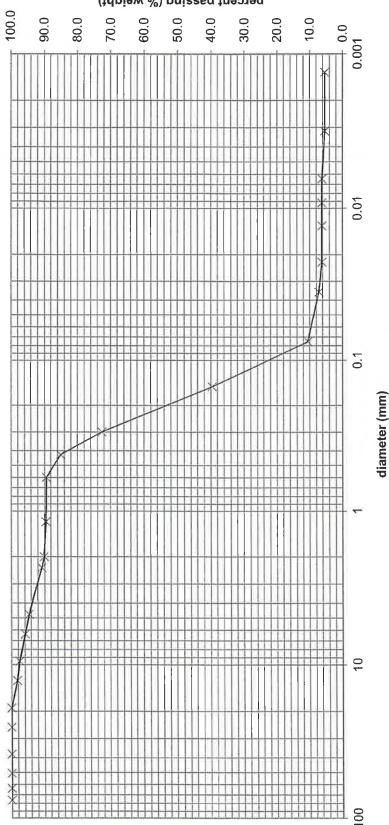
percent passing (% weight)



Project Number: 3147JV005 Event Number: 17 Lab Number: 3049 Tested by: T. Moore Date Tested : 1/31/2017



percent passing (% weight)



Project Number: 3147JV005 Tested by: T. Moore Date Tested: 1/31/2017 Event Number: 17 Lab Number: 3050

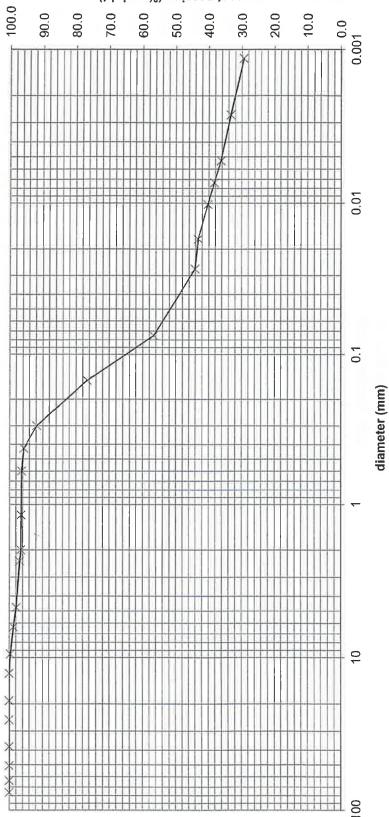


Project Number: 3147JV005

Event Number: 17

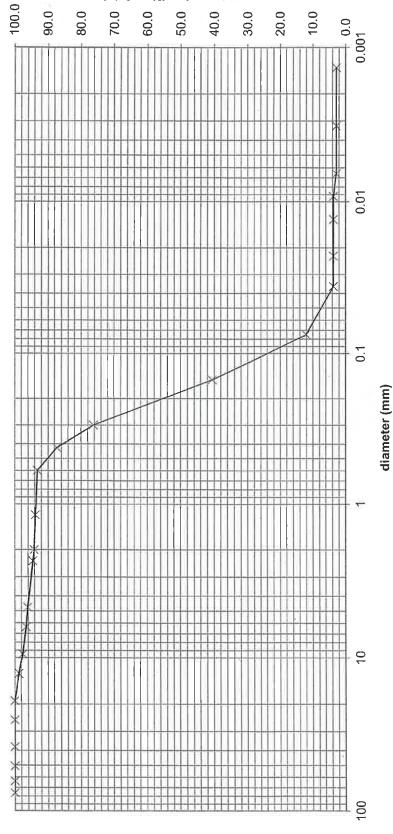
Lab Number: 3051 Tested by: T. Moore Date Tested: 2/13/2017 400 South Lorena Avenue Farmington, New Mexico 87401 (505) 327-4966 • fax 327-5293

bercent passing (% weight)





bercent passing (% weight)



Project Number: 3147JV005 Event Number: 17 Lab Number: 3052 Tested by: T. Moore

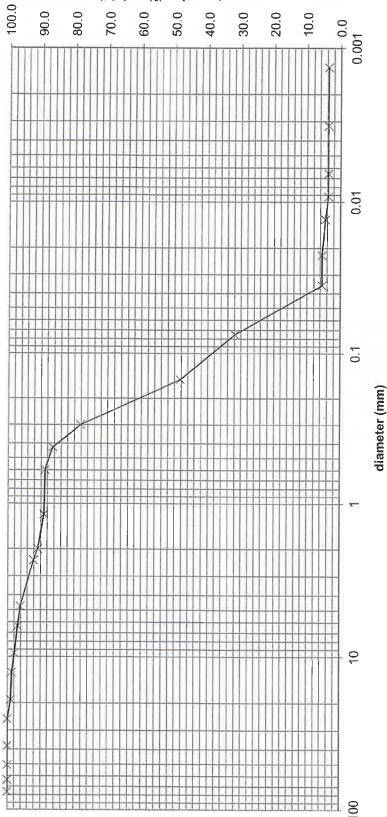
Tested by: T. Moore Date Tested: 2/13/2017



Project Number: 3147JV005 Event Number: 17

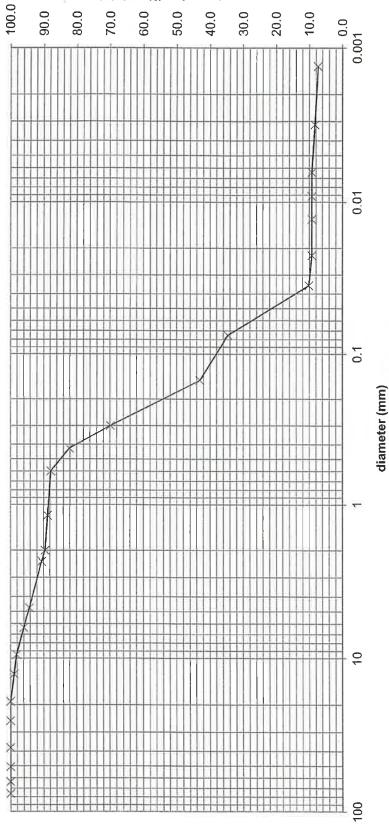
Lab Number: 3053 Tested by: T. Moore Date Tested: 1/31/2017 400 South Lorena Avenue Farmington, New Mexico 87401 (505) 327-4966 • fax 327-5293

percent passing (% weight)





bercent passing (% weight)



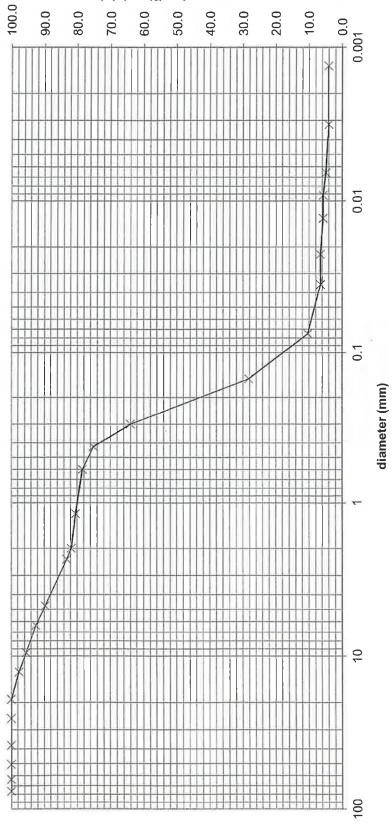
Project Number: 3147JV005 Event Number: 17 Lab Number: 3054 Tested by: T. Moore Date Tested: 2/1/2017



Project Number: 3147JV005 Event Number: 17

Lab Number: 3055 Tested by: T. Moore Date Tested: 1/31/2017 400 South Lorena Avenue Farmington, New Mexico 87401 (505) 327-4966 • fax 327-5293

bercent passing (% weight)





PHYSICAL PROPERTIES OF SOILS & AGGREGATES

Client DIBBLE ENGINEERING

7500 NORTH DREAMY DRAW DRIVE

STE 200

PHOENIX, AZ 85020

Date of Report 02-16-17

Job No. 3147JV005

Event / Invoice No. 31470013

Authorized by TIM WOLFE

Date 01-12-17

Lab No. 3049

Sampled by WT/T. MOORE

Date 01-12-17

Submitted by WT/T. MOORE

Date 01-13-17

Source / Location Designated by WT/T. MOORE

Date 01-12-17

Project

NDOT BETTERMENT FUNDING PROJECTS - LAB WORK

Location

FARMINGTON LAB, NM

Type / Use of Material

NATIVE MATERIAL/SUBGRADE

Supplier / Source

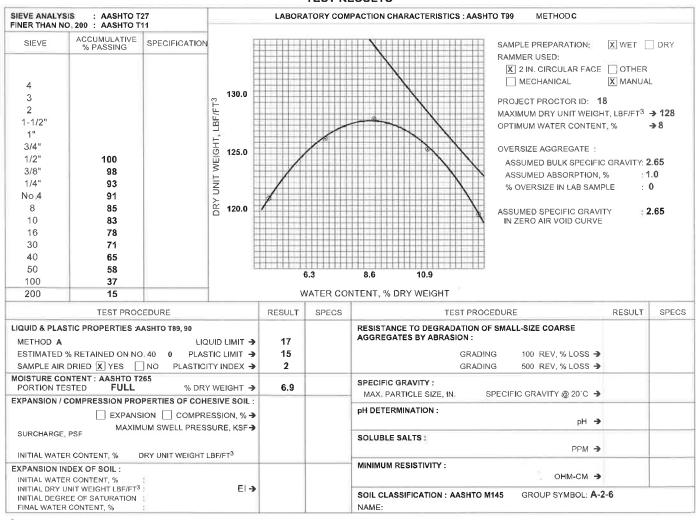
N21 KAIBITO, AZ/ONSITE

Sample Source / Location

N21 MP0.9 W. OF E. END OF PAVE

Special Instructions

TEST RESULTS



Comments:

Copies to: CLIENT (1)

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REVIEWED BY	B. JENKINS
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PHYSICAL PROPERTIES OF SOILS & AGGREGATES

Client DIBBLE ENGINEERING
7500 NORTH DREAMY DRAW DRIVE
STE 200
PHOENIX, AZ 85020

Date of Report **02-16-17**Job No. **3147JV005**

Event / Invoice No. 31470013
Authorized by TIM WOLFE

Lab No. 3050 Date 01-12-17

Sampled by WT/T. MOORE

Date 01-12-17

Submitted by WT/T. MOORE

Date 01-13-17

Source / Location Designated by WT/T. MOORE

Date 01-12-17

Project

NDOT BETTERMENT FUNDING PROJECTS - LAB WORK

Location

FARMINGTON LAB, NM

Type / Use of Material

NATIVE MATERIAL/SUBGRADE

Supplier / Source

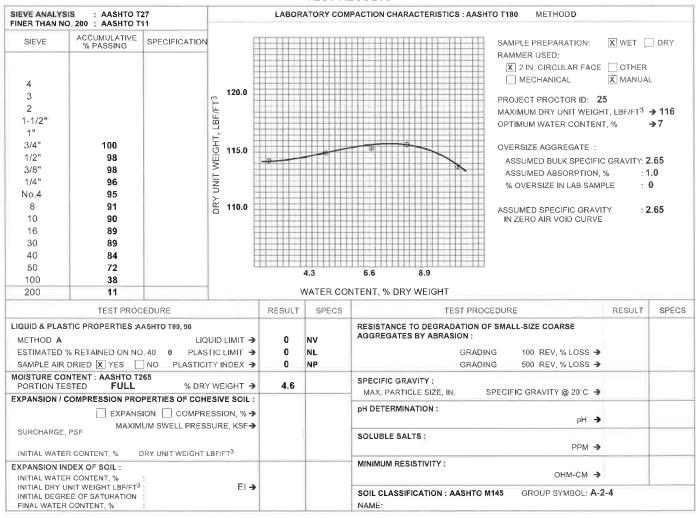
N21 KAIBITO, AZ/ONSITE

Sample Source / Location

N21 3.5M W. OF EAST END OF PAVE

Special Instructions

TEST RESULTS



Comments:

Copies to: CLIENT (1)

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REVIEWED BY	B. JENKINS



PHYSICAL PROPERTIES OF SOILS & AGGREGATES

Lab No. 3051

Client DIBBLE ENGINEERING
7500 NORTH DREAMY DRAW DRIVE
STE 200
PHOENIX, AZ 85020

Date of Report **02-16-17** Job No. **3147JV005**

Event / Invoice No. 31470013
Authorized by TIM WOLFE

Authorized by TIM WOLFE Date 01-12-17
Sampled by WT/T. MOORE Date 01-12-17
Submitted by WT/T. MOORE Date 01-13-17

Source / Location Designated by WT/T. MOORE Date 01-12-17

Project

NDOT BETTERMENT FUNDING PROJECTS - LAB WORK

Location

FARMINGTON LAB, NM

Type / Use of Material

NATIVE MATERIAL/SUBGRADE

Supplier / Source

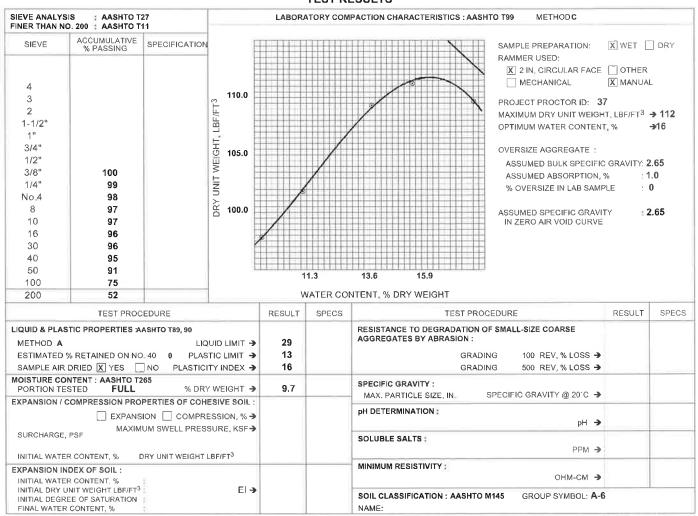
N21 KAIBITO, AZ/ONSITE

Sample Source / Location

N21 8.0M WEST OF E. END OF PAVE

Special Instructions

TEST RESULTS



Comments:

Copies to: CLIENT (1)

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REVIEWED BY	B, JENKINS	



PHYSICAL PROPERTIES **OF SOILS & AGGREGATES**

Client DIBBLE ENGINEERING

7500 NORTH DREAMY DRAW DRIVE

STE 200

PHOENIX, AZ 85020

Date of Report 02-16-17

Job No. 3147JV005

Event / Invoice No. 31470013

Lab No. 3052 Date 01-12-17

Authorized by TIM WOLFE Sampled by WT/T. MOORE

Date 01-12-17

Submitted by WT/T. MOORE

Date 01-13-17

Source / Location Designated by WT/T. MOORE

Date 01-12-17

Project

NDOT BETTERMENT FUNDING PROJECTS - LAB WORK

Location

FARMINGTON LAB. NM

Type / Use of Material

NATIVE MATERIAL/SUBGRADE

Supplier / Source

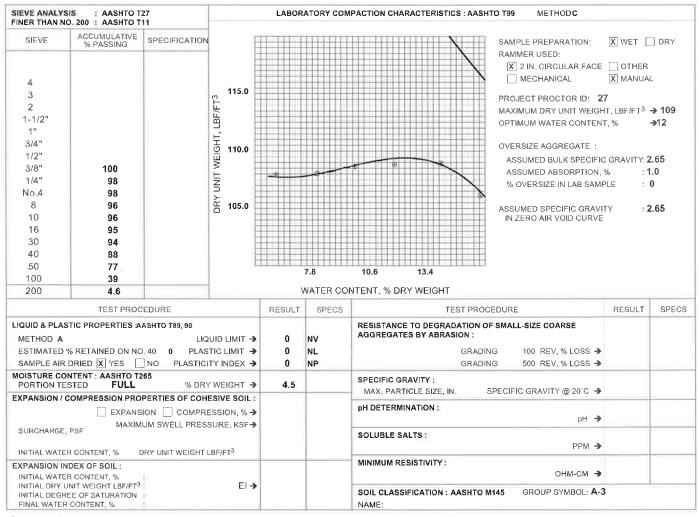
N21 KAIBITO, AZ/ONSITE

Sample Source / Location

N21 12.4M W. OF E. END OF PAVE

Special Instructions

TEST RESULTS



Comments:

Copies to: CLIENT (1)

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425@99 W H