

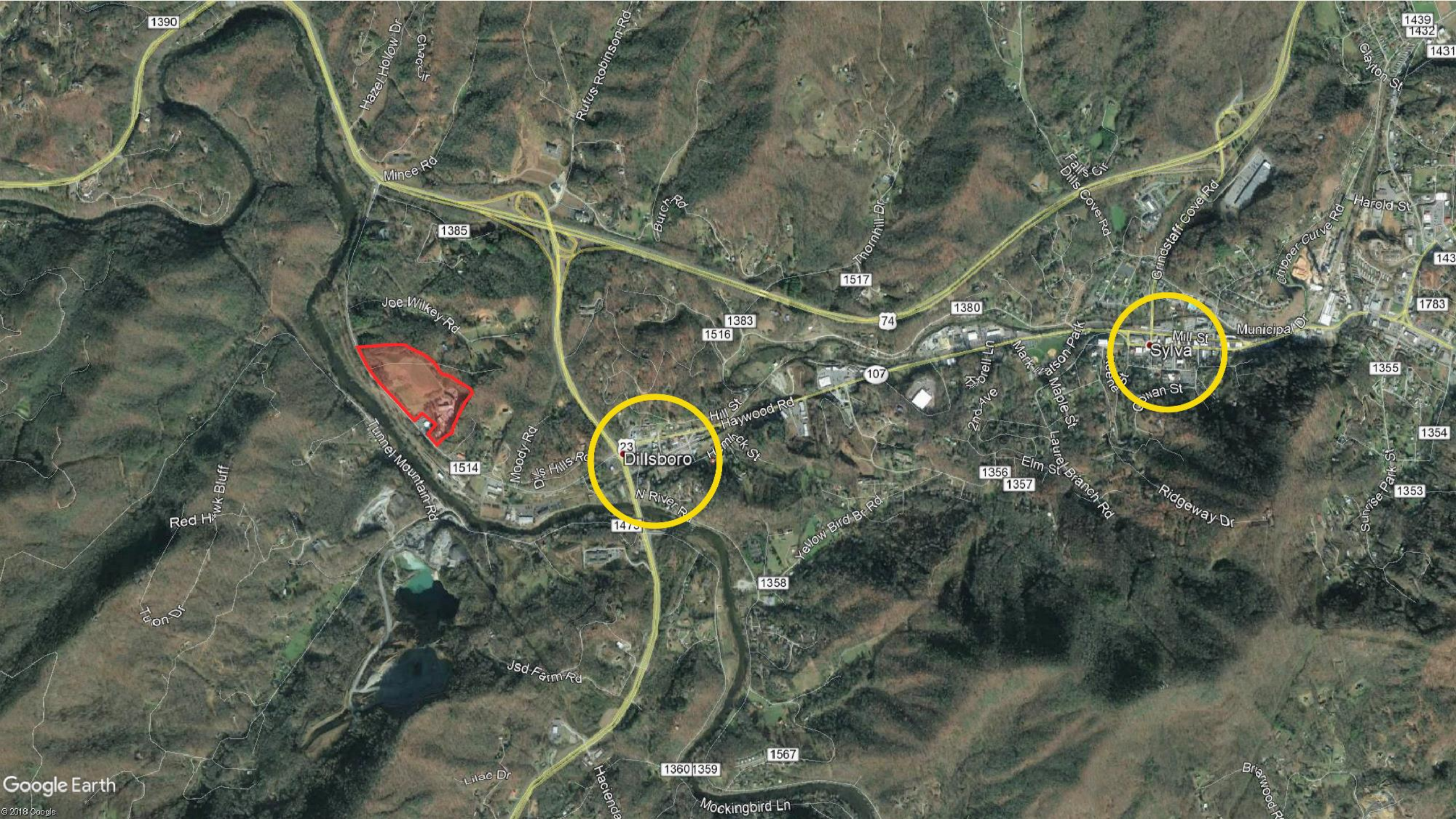
Green Energy Park

Master Plan Update



WithersRavenel
Our People. Your Success.

22 January, 2019



1390

Hazel Hollow Dr
Mince Rd

Rutus Robinson Rd

Burek Rd

Thornhill Dr

Falls Ct
Dills Cove Rd

Grindstaff Cove Rd

Chipper Curve Rd

Harold St

Clayton St

1385

1517

1380

Joe Wilkey Rd

1383
1516

74

Mill St
Sylva

Municipal Dr

1783

1355

Tunnel Mountain Rd

1514

Moody Rd
Dix Hills Rd

23
Dillsboro

Hill St
Haywood Rd
Hammick St

107

2nd Ave
Kobrell Ln

Marshallson Park
Maple St

1356

1357

Elm St
Laurel Branch Rd

Ridgeway Dr

1354

1353

Red Hawk Bluff

Talon Dr

1470

1358

Yellow Bird Br Rd

Jsd Farm Rd

Lilae Dr

Hacienda

1360 1359

1567

Mockingbird Ln

Briarwood Rd



Landfill

Recycling Center

Art Center

Greenhouses

Kilns

Event Space

Joe Wilkey Rd

Haywood Rd

Harmony Hill Rd

Tunnel Mountain Pk

Bellwood Dr

Western Ln

Moody Rd

1514

Proposed Park Program

- Animal Recue Center
- Innovation Center (approx 17,000 sf)
- Event Space
- Walking Trails
- Dog Run / Park
- Open Space
- Parking
- Relocate Recycling Center



Existing Conditions



Existing Conditions







Topography



Topography



Geotechnical



IBLE INC.		SOIL BORING NO. B-3	
SUNNELL-LAMMONS ENGINEERING, INC.		PROJECT: Jackson County Green Energy Park	
Geotechnical and Environmental Consultants		CLIENT: WithersRavenel	
LOCATION: Jackson County, North Carolina		SEAR:	
DRILLER: METRO DRILL, INC., TB & RB		ELEV:	
DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger		LOGG:	
DEPTH TO - WATER - INITIAL: ∇		AFTER 24 HOURS: ∇	
DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	STANDARD PENETRATION TEST (blows/ft)
0 - 5	Very dense, grayish brown, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

IBLE INC.		SOIL BORING NO. B-5	
SUNNELL-LAMMONS ENGINEERING, INC.		PROJECT: Jackson County Green Energy Park	
Geotechnical and Environmental Consultants		CLIENT: WithersRavenel	
LOCATION: Jackson County, North Carolina		SEAR:	
DRILLER: METRO DRILL, INC., TB & RB		ELEV:	
DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger		LOGG:	
DEPTH TO - WATER - INITIAL: ∇		AFTER 24 HOURS: ∇	
DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	STANDARD PENETRATION TEST (blows/ft)
0 - 5	Very firm to dense, grayish brown, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
5 - 10	Firm, dark grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

IBLE INC.		SOIL BORING NO. B-7	
SUNNELL-LAMMONS ENGINEERING, INC.		PROJECT: Jackson County Green Energy Park	
Geotechnical and Environmental Consultants		CLIENT: WithersRavenel	
LOCATION: Jackson County, North Carolina		SEAR:	
DRILLER: METRO DRILL, INC., TB & RB		ELEV:	
DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger		LOGG:	
DEPTH TO - WATER - INITIAL: ∇		AFTER 24 HOURS: ∇	
DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	STANDARD PENETRATION TEST (blows/ft)
0 - 5	Firm, reddish brown, micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
5 - 10	Very firm and dense, tanish brown, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
10 - 15	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
15 - 20	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
20 - 25	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
25 - 30	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
30 - 35	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
35 - 40	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
40 - 45	Very dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
45 - 50	Partially Weathered Rock which sampled as grayish brown, micaceous, silty fine to medium sand	0073	0073
Boring terminated at 50 feet. No groundwater encountered at time of boring or backfilling.			

IBLE INC.		SOIL BORING NO. B-8	
SUNNELL-LAMMONS ENGINEERING, INC.		PROJECT: Jackson County Green Energy Park	
Geotechnical and Environmental Consultants		CLIENT: WithersRavenel	
LOCATION: Jackson County, North Carolina		SEAR:	
DRILLER: METRO DRILL, INC., TB & RB		ELEV:	
DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger		LOGG:	
DEPTH TO - WATER - INITIAL: ∇		AFTER 24 HOURS: ∇	
DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	STANDARD PENETRATION TEST (blows/ft)
0 - 5	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
5 - 10	Firm and dense, tanish brown, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
10 - 15	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
15 - 20	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
20 - 25	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
25 - 30	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
30 - 35	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
35 - 40	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
40 - 45	Loose to firm, reddish brown, slightly micaceous, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
45 - 50	Very firm and very dense, grayish tan, micaceous, silty fine to medium SAND (SM)	SM	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Boring terminated at 50 feet. No groundwater encountered at time of boring or backfilling.			

IBLE INC.		SOIL BORING NO. B-10	
SUNNELL-LAMMONS ENGINEERING, INC.		PROJECT: Jackson County Green Energy Park	
Geotechnical and Environmental Consultants		CLIENT: WithersRavenel	
LOCATION: Jackson County, North Carolina		SEAR:	
DRILLER: METRO DRILL, INC., TB & RB		ELEV:	
DRILLING METHOD: CME 45, 2 1/4" Hollow Stem Auger		LOGG:	
DEPTH TO - WATER - INITIAL: ∇		AFTER 24 HOURS: ∇	
DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	STANDARD PENETRATION TEST (blows/ft)
0 - 5	Loose, reddish brown, silty fine to medium SAND (SM) - (fill)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
5 - 10	Loose and firm, brownish red, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
10 - 15	Loose and firm, brownish red, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
15 - 20	Loose and firm, brownish red, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
20 - 25	Loose and firm, brownish red, micaceous, silty fine to medium SAND (SM) - (residuum)	SM	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
25 - 30	Firm and dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
30 - 35	Firm and dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
35 - 40	Firm and dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
40 - 45	Firm and dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
45 - 50	Firm and dense, grayish brown, very micaceous, silty fine to medium SAND (SM)	SM	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Boring terminated at 50 feet. No groundwater encountered at time of boring or backfilling.			



Preliminary Master Plan

Haywood Rd

Harmony Hill Rd



Outdoor Art

Dog Run

Walking Trails

The Meadow

Outdoor Art



Innovation Center

Kiln

Event Lawn

Animal
Rescue
Center

Open
Space

Recycling Center

Haywood Rd

Anthony Hill Rd



Landfill trail looking southeast



Entry drive looking southeast



Landfill trail looking southeast



Event lawn looking south

Preliminary Master Plan



ART INSTALLATION (TYP.)

WAYFINDING SIGNAGE (TYP.)

POLLINATOR GARDEN

ART INSTALLATION (TYP.)

ENHANCED NATIVE PLANTINGS

WALKING TRAIL

EDUCATIONAL SIGNAGE (TYP.)

ENCLOSED DOG PARK AREA

EXISTING ENTRY DRIVE

OVERFLOW PARKING AREA / EVENT SPACE

WALKING TRAIL

RELOCATED KILN

ENHANCED NATIVE PLANTINGS

NEW EVENT PLAZA

WALKING TRAIL

EXISTING MAIN BUILDING

ART INSTALLATION (TYP.)

INTERNAL DRIVE WITH PARKING +/- 62 SPACES

EXISTING ENTRY DRIVE

ANIMAL RESCUE SHELTER WITH DOG RUNS (10,000 SF, w/ POSSIBLE EXPANSION)

PARKING +/- 10 SPACES

ANIMAL RESCUE SHELTER OPEN SPACE

INNOVATION CENTER - (13,000 SF w/ SEPARATE "CLEAN" AND "DIRTY" AREAS)

RELOCATED SRC APPROX. 9 DUMPSTERS + SWAP N' SHOP

SERVICE DRIVE

itive Run

Haywood Rd

Harmony Hill Rd