130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383

TYPE I PERMIT APPLICATION

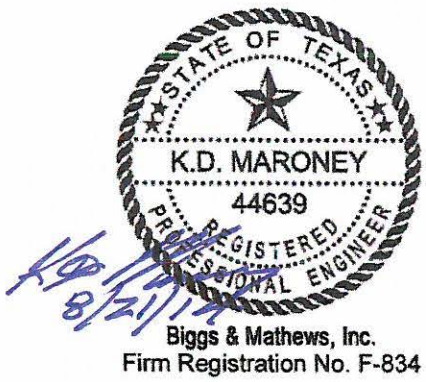
PART II
EXISTING CONDITIONS AND
CHARACTER OF THE FACILITY AND SURROUNDING AREA

Prepared for

130 ENVIRONMENTAL PARK, LLC

August 2013
Revised February 2014
Revised June 2014

Revised August 2014



Biggs & Mathews, Inc.
Firm Registration No. F-834

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL
1700 Robert Road, Suite 100 ◆ Mansfield, Texas 76063 ◆ 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

And

BIGGS & MATHEWS, INC.
2500 Brook Avenue ◆ Wichita Falls, Texas 76301 ◆ 940-766-0156

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-834

8/21/14

Biggs & Mathews, Inc.
Firm Registration No. F-834

CONTENTS

Biggs & Mathews, Inc.
Firm Registration No. F-834

8/21/14

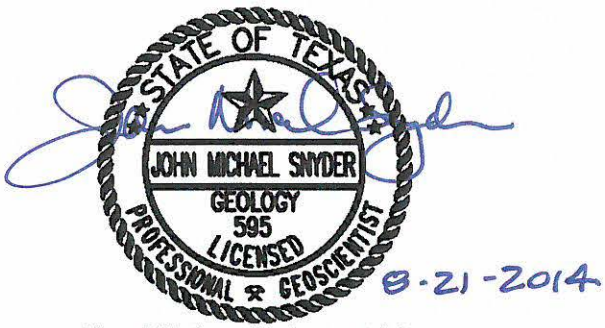
CONTENTS (Continued)

8/21/14

Biggs & Mathews, Inc.
Firm Registration No. F-834

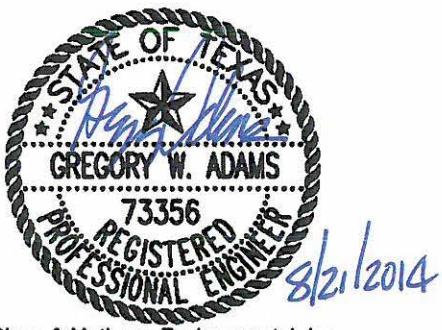
CONTENTS (Continued)

CONTENTS (Continued)



Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

For Sections 8. 1, 10.1, 10.2, 10.3, 10.4, 10.5, 11.1, 11.2, 12.1, 12.2.



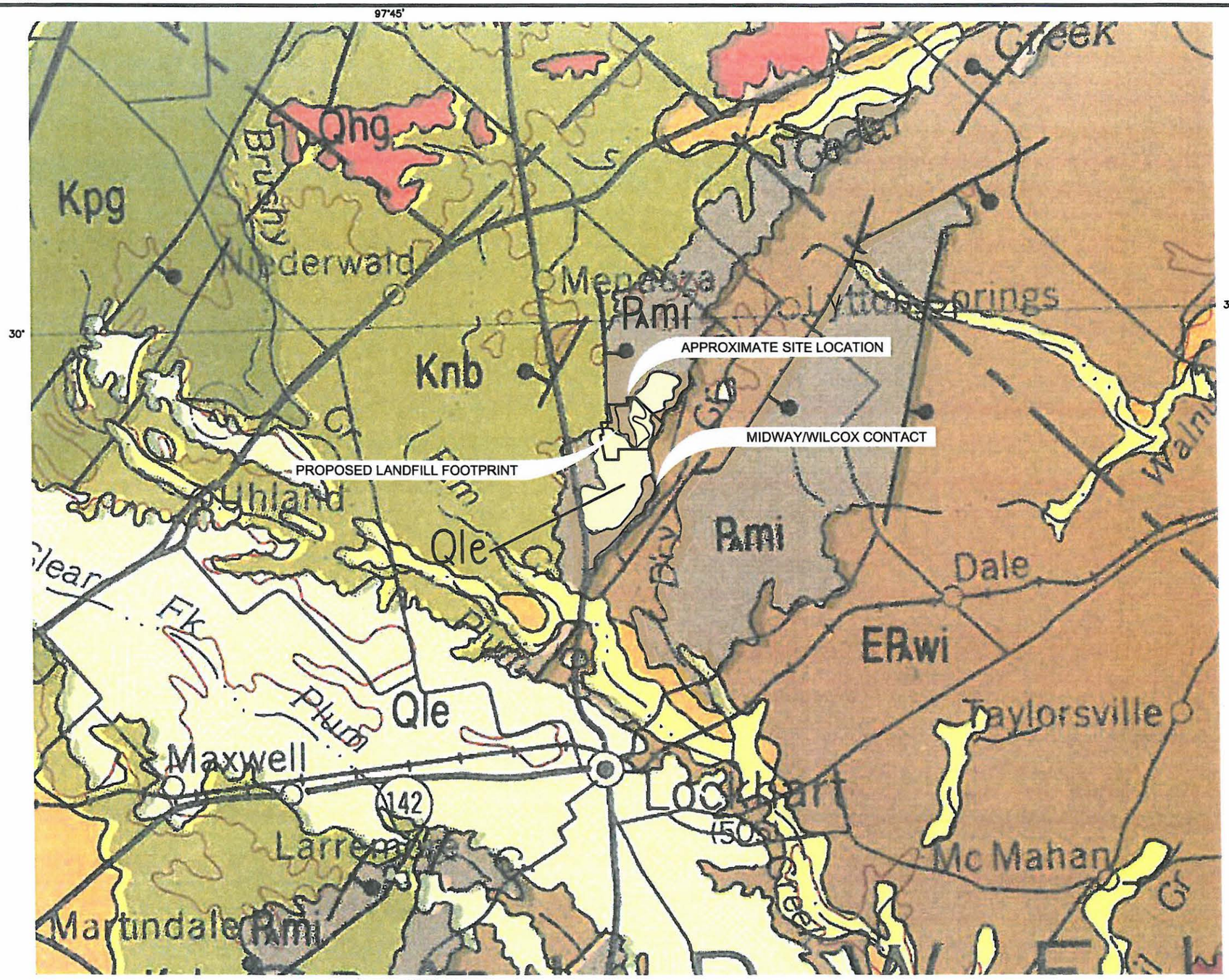
Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

For Section 10.6.

130 ENVIRONMENTAL PARK

APPENDIX IIA
MAPS AND DRAWINGS

CONTENTS



0 1 2
SCALE IN MILES

NOTE:

1. FOR GEOLOGIC LEGEND, SEE DRAWING IIA.9A AND IIA.9B.
2. MODIFIED FROM FROM BARNES, 1992 BY ADDING:
   A. APPROXIAMTE SITE LOCATION.
   B. PROPOSED LANDFILL FOOTPRINT.
   C. MIDWAY/WILCOX CONTACT.
   D. LABELED THE PLEISTOCENE LEONA FORMATION.
   E. LABELED THE PALEOCENE MIDWAY GROUP.

DATUM IS MEAN SEA LEVEL
CONTOUR INTERVAL 200 FEET
SUPPLEMENTAL 100-FOOT CONTOUR IN COASTAL REGION

GEOLOGIC MAP OF TEXAS

1992

REFERENCE:
BARNES, V.E., 1992, GEOLOGIC MAP OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS, AUSTIN, TEXAS.

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

8-21-2014

ISSUED FOR PERMITTING PURPOSES

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
2	8/14	N.O.D. NO. 2 RESPONSE	GLW	ESF	ESF	JMS
1	6/14	N.O.D. NO. 1 RESPONSE	GLW	ESF	JMS	JMS

GEOLOGIC VICINITY MAP
CALDWELL COUNTY

130 ENVIRONMENTAL PARK, LLC
130 ENVIRONMENTAL PARK
TYPE I PERMIT APPLICATION

BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144
TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 6/13	FIGURE	
DWN. GLW	SCALE : GRAPHIC	IIA.9	
CHK. JMS	DWG : IIA.9-GeoVicinity.dwg		

J:\129\06 130 Park\102\PART II\IIA.9-GeoVicinity.dwg Layout: IIA.9 User: gwhite

QUATERNARY

Holocene

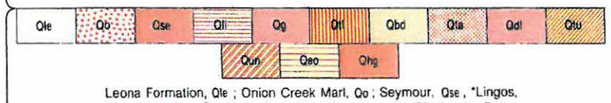
Sand sheet, Qs ; dune sand sheet, Qds ; sand dune, Qsd ; and sand deposits, undivided, Qsu

Alluvium, Qal ; and alkali flat deposits, Qaf

Holocene & Pleistocene

Terrace, Qt , alluvial fan, Qf , caliche, Qc , gypsite, Qgy , land slide, Qls bolson, Qb , and playa, Qp , deposits; and Quaternary deposits, undivided, Qu

Pleistocene



Leona Formation, Qte ; Onion Creek Marl, Qo ; Seymour, Qse , *Lingos, Qli , and Gatuna, Qg , Formations; Toy Limestone, Qtl ; Blackwater Draw, Qbd , Tahoka, Qta , Double Lakes, Qdl , and Tule, Qtu , Formations; pond, Qun , older alluvial, Qao , and high gravel, Qhg , deposits

Quaternary-Tertiary bolson deposits, QTb ; Quaternary-Tertiary deposits, undivided, QT ; and Uvalde Gravel, QTu

Pliocene

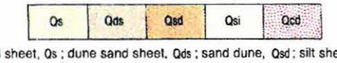
Blanco, Pob , and Rita Blanca, Por , Formations; and unnamed Pliocene deposits, Pou

Miocene

Ogallala Formation

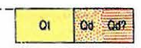
Goliad Formation

Fill and spoil

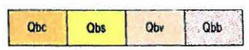


Sand sheet, Qs ; dune sand sheet, Qds ; sand dune, Qsd ; silt sheet, Qsi ; and clay dune, Qcd

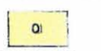
Alluvium, Qal , subdivided in Rio Grande delta into areas predominantly clay, Qac , and areas predominantly sand, Qas ; and beach-ridge and barrier-flat sand deposits, Qbr



Terrace deposits, Qt ; and Deweyville Formation, Qd , with higher level, Qd?

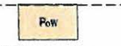


Beaumont Formation subdivided into areas predominantly clay, Qbc , areas predominantly sand, Qbs , in the Rio Grande delta area clay veneer over meanderbelt sand, Qbv , and barrier island deposits, Qbb



Lissie Formation

High gravel deposits



Willis Formation

Goliad Formation

TERTIARY

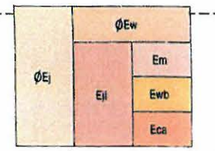
Miocene

Fleming Formation and Oakville Sandstone, undivided

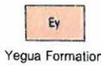
Oligocene

Catahoula Formation and Frio Clay, undivided, Øcf , Catahoula Formation, Øc ; and Frio Clay, Øf

Eocene

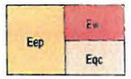


Jackson Group, undivided, ØEj ; Whitsett Formation, ØEw ; Manning, Wellborn, and Cadell Formations, undivided, Ejl ; Manning, Em , Wellborn, Ewb , and Cadell, Eca , Formations



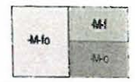
Yegua Formation

Laredo Formation, El ; Cook Mountain Formation, Ecm ; and Sparta Sand, Es



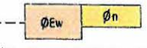
El Pico Clay, Eep ; Weches Formation, Ew ; and Queen City Sand, Eqc

Bigford, Eb , and Reklaw, Er , Formations

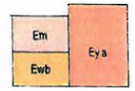


Fleming Formation and Oakville Sandstone, undivided, M-fo ; Fleming Formation, M-f ; and Oakville Sandstone, M-o

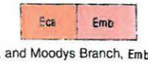
Catahoula Formation



Whitsett, ØEw , and Nash Creek, Øn , Formations



Manning, Em , Wellborn, Ewb , and Yazoo, Eya , Formations



Cadell, Eca , and Moodys Branch, Emb , Formations

Yegua Formation

Cook Mountain Formation

Sparta Sand

Weches Formation

Queen City Sand

REFERENCE:
BARNES, V.E., 1992, GEOLOGIC MAP OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS, AUSTIN, TEXAS.

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2	8/14	N.O.D. NO. 2 RESPONSE	GLW	ESF	JMS	JMS
1	6/14	N.O.D. NO. 1 RESPONSE	GLW	ESF	JMS	JMS
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

GEOLOGIC VICINITY MAP LEGEND

130 ENVIRONMENTAL PARK, LLC
130 ENVIRONMENTAL PARK
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MANSFIELD • WICHITA FALLS
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TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 6/13	FIGURE	
DWN. GLW	SCALE : GRAPHIC	IIA.9A	
CHK. JMS	DWG : E1_1_GenVin.dwg		

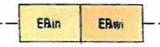
J:\129\06 130 Park\101\Att\E\E1_1_GenVin.dwg Layout: IIA.9A User: gwhite

Eocene

Paleocene

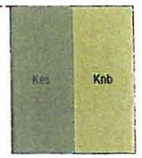
Upper Cretaceous

Carrizo Sand

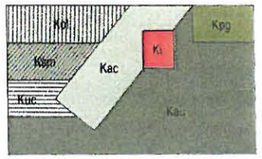


Indio Formation, ERin ; and Wilcox Group, undivided, ERwi

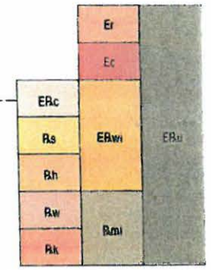
Kincaid Formation, Rk ; and Midway Group, undivided, Rmi



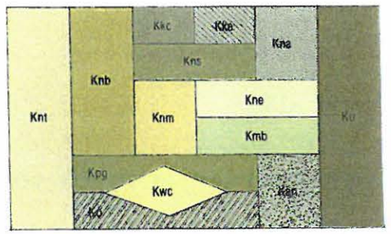
Escondido Formation, Kes ; and Navarro Group and Marlbrook Marl, undivided, Knb



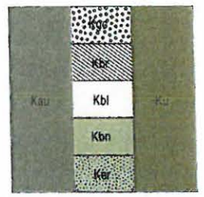
Olmos, Kol , and San Miguel, Ksm , Formations; Upson Clay, Kuc; Anacacho Limestone, Kac; Pecan Gap, Kpg , and Austin, Kau, Chalks; and igneous rocks of Austin age, Ki



Reklaw Formation, Er ; Carrizo Sand, Ec; Calvert Bluff, ERc , Simsboro, Rs , and Hooper, Rh , Formations; Wilcox Group, undivided, ERwi ; Wills Point, Rw , and Kincaid, Rk , Formations; Midway Group, undivided, Rmi ; and Reklaw Formation, Carrizo Sand, and Wilcox and Midway Groups, undivided, ERu



Navarro and Taylor Groups, undivided, Knt ; Navarro Group and Marlbrook Marl, undivided, Knb ; Kemp Clay and Corsicana Marl, undivided, Kkc ; Kemp Clay, Kke ; Nacatoch Sand, Kns ; Navarro Group, undivided, Kna ; Neylandville and Marlbrook Marls, undivided, Knm ; Neylandville Marl, Kne ; Marlbrook Marl, Kmb ; Pecan Gap Chalk, Kpg ; Wolfe City Sand, Kwc ; Ozan Formation, Ko ; Annona Chalk, Kan ; and Upper Cretaceous rocks, undivided, Ku



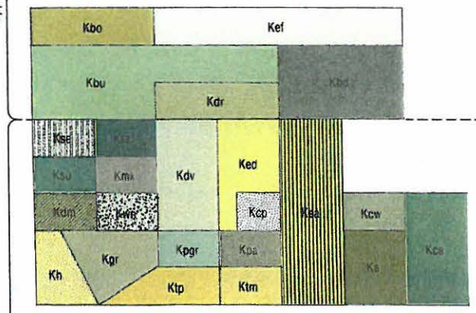
Austin Chalk, Kau ; Gober Chalk and Roxton Limestone, Kgc ; Brownstown Marl, Kbr ; Blossom Sand, Kbl ; Bonham Formation, Kbn ; Ector Chalk, Ker ; and Upper Cretaceous rocks, undivided, Ku

TERTIARY

Upper Cretaceous

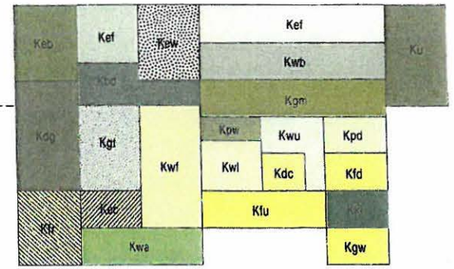
Lower Cretaceous

CRETACEOUS

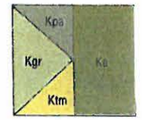


Boquillas, Kbo , and Eagle Ford, Kef , Formations; Buda Limestone, Kbu; Del Rio Clay, Kdr ; Buda Limestone and Del Rio Clay, undivided, Kbd; Santa Elena Limestone, Kse ; Salmon Peak Limestone, Ksa ; Sue Peaks Formation, Ksu ; McKnight Formation, Kmk ; Del Carmen Limestone, Kdm; West Nueces Formation, Kwn ; Devils River, Kdv , Edwards, Ked , and Comanche Peak, Kcp , Limestones; Hensell Sand, Kh; Glen Rose Limestone, Kgr ; Paluxy Sand and Glen Rose Limestone, undivided, Kpgr; Paluxy Sand, Kpa ; Travis Peak Formation, Ktp ; Twin Mountains Formation, Ktm ; Edwards Limestone and Antlers Sand, undivided, Kea ; Comanche Peak Limestone and Walnut Clay, undivided, Kcw; Antlers Sand, Ka ; and Comanche Peak Limestone, Walnut Clay, and Antlers Sand, undivided, Kca

Cow Creek Limestone, Hammett Shale, and Sycamore Sand, undivided



Eagle Ford Formation and Buda Limestone, undivided, Keb ; Eagle Ford Formation, Kef ; Eagle Ford and Woodbine Formations, undivided, Kew ; Woodbine Formation, Kwb ; Del Rio Clay and Georgetown Limestone, undivided, Kdg ; Buda Limestone and Del Rio Clay, undivided, Kbd; Grayson Marl and Main Street Limestone, undivided, Kgm ; Georgetown Limestone, Kgt ; Pawpaw Formation and upper limestone unit of Weno Limestone, undivided, Kpw ; lower part of Washita Group, Kwl; undivided part of Washita Group, Kwu ; Duck Creek Limestone, Kdc ; Pawpaw Formation, Weno Limestone, and Denton Clay, undivided, Kpd ; Fort Worth Limestone and Duck Creek Formation, undivided, Kfd; Fredericksburg Group, Kfr ; Edwards and Comanche Peak Limestones, undivided, Kec ; Walnut Clay, Kwa ; undivided parts of Washita and Fredericksburg Groups, Kwf ; undivided part of Fredericksburg Group, Kfu ; Kiamichi Formation, Kki ; Goodland Limestone and Walnut Clay, undivided, Kgw ; and Upper Cretaceous rocks, undivided, Ku



Paluxy Sand, Kpa ; Glen Rose Limestone, Kgr ; Twin Mountains Formation, Ktm ; and Antlers Sand, Ka

Fault

Ball shows downthrown side

GEOLOGIC MAP OF TEXAS

1992

REFERENCE:
BARNES, V.E., 1992, GEOLOGIC MAP OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS, AUSTIN, TEXAS.

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GEOLOGIC VICINITY MAP LEGEND

130 ENVIRONMENTAL PARK, LLC
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BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144

TBPE FIRM NO. F-256 | TBPG FIRM NO. 50222

DSN. ESF	DATE : 6/13	FIGURE	
DWN. GLW	SCALE : GRAPHIC		IIA.9B
CHK. JMS	DWG : E1_1_GenVin.dwg		

J:\129\06 130 Park\101\Att\E1_1_GenVin.dwg Layout: IIA.9B User: gwhite

A

A'

BU-67-02-508

BU-67-03-704

APPROXIMATE SITE LOCATION

BU-67-12-109

BU-67-12-201

BU-67-12-310

BU-67-13-104

BU-67-13-610

BU-67-13-611

Caldwell Co.

Gonzales Co.

W. V. Hardin
S. T. Robinson No. 1

Leona Formation

Approximate Land Surface

Weches Greensand

Navarro Group

Midway Group

Wilcox Group

Carrizo Sand

Queen City Sand

Reklaw Formation

Taylor Marl, Austin Chalk, and Eagle Ford Shale, undifferentiated

Washita Group

Edwards Limestone

Taylor Marl, Austin Chalk, and Eagle Ford Shale, undifferentiated

Taylor Marl, Austin Chalk, and Eagle Ford Shale, undifferentiated

Taylor Marl, Austin Chalk, and Eagle Ford Shale, undifferentiated

Sea Level

Altitude, in feet

600
400
200
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200

APPROXIMATE SITE LOCATION

A

A'

0 1 2 3 4 miles

For location of section see Plate 1

CALWELL COUNTY

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

8-21-2014

REFERENCE:
C.R. FOLLET, 1975, GROUND-WATER RESOURSES OF CALDWELL COUNTY, TEXAS, TEXAS WATER DEVELOPMENT BOARD REPORT 12

Plate 2

Geologic Section A-A'

U.S. Geological Survey in cooperation with the Texas Water Development Board, Caldwell County Commissioners' Court and Guadalupe-Blanco River Authority

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	1/14	N.O.D. NO. 1 RESPONSE	GLW	JMS	JMS	JMS

GENERALIZED REGIONAL GEOLOGIC CROSS SECTION

130 ENVIRONMENTAL PARK, LLC
130 ENVIRONMENTAL PARK
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CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144
TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 1/14	FIGURE	IIA.9C
DWN. GLW	SCALE : GRAPHIC		
CHK. JMS	DWG : IIA.9C-RegSec.dwg		

J:\129\06 130 Park\102\PART II\IIA.9C-RegSec.dwg Layout: IIA.9C User: scundiff

Volume 2

130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383

TYPE I PERMIT APPLICATION

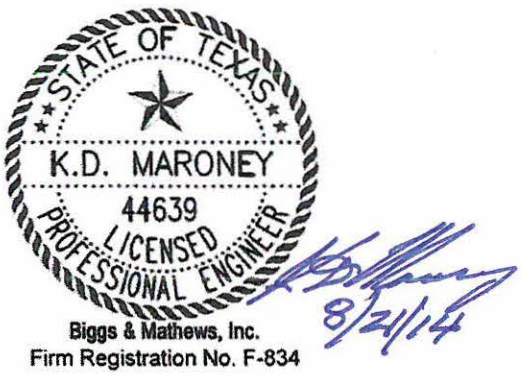
VOLUME 2 OF 5

Prepared for

130 ENVIRONMENTAL PARK, LLC

August 2013
Revised February 2014
Revised June 2014

Revised August 2014



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130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383

TYPE I PERMIT APPLICATION

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130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT NO. MSW 2383

TYPE I PERMIT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN

ATTACHMENT C
FACILITY SURFACE WATER DRAINAGE REPORT

Prepared for

130 ENVIRONMENTAL PARK, LLC

February 2014
Revised June 2014

Revised August 2014

Prepared by

8-21-14

STATE OF TEXAS
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130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383

TYPE I PERMIT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN

ATTACHMENT C1
DRAINAGE ANALYSIS AND DESIGN

Prepared for

130 ENVIRONMENTAL PARK, LLC

February 2014
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At CP5 the peak discharge will increase from 255.5 cfs to 257.5 cfs, a change of less than 0.8%, and at CP6 the peak discharge will decrease from 2121.3 cfs to 2033.6 cfs, a change of approximately 4%. At CP5, the runoff volume will increase from 58.5 acre-feet to 59.4 acre-feet, a change of only 1.5%, and at CP6, the runoff volume will increase from 659.3 acre-feet to 676.0 acre-feet, a change of less than 2.5%. CP5 and CP6 are located in channels of unnamed tributaries on the west side of the 130 Environmental Park site. These tributaries merge approximately 350 feet south of the permit boundary and flow into SCS Reservoir Site 21. CP5 and CP6 are both located within the 100-year floodplain, as are the tributaries that flow from them in to the SCS reservoir site. The slight decreases in peak flow rates and CP5 and CP6, and in the stream channels between them and the reservoir site will not result in an adverse alteration of existing drainage patterns. The slight increases in runoff volumes at and below CP5 and CP6 will occur in stream channels and within the reservoir site, all of which are located within the 100-year floodplain, will not reduce total streamflows or increase the 100-year flood water surface elevation. The changes at CP5 and CP6 will not result in adverse alterations of existing drainage patterns.

At CP7 the 25-year storm peak discharge will decrease from 243.4 cfs to 141.8 cfs, a reduction of approximately 42%, and at CP8 the peak discharge will decrease from 372.4 cfs to 327.2 cfs, a reduction of approximately 12.1%. At CP7, the 25-year storm runoff volume will increase from 38.5 acre-feet to 61.8 acre-feet, an increase of approximately 60.5%, and at CP8 the runoff volume will decrease from 63.8 acre-feet to 53.3 acre-feet, a decrease of approximately 16.5%. CP7 and CP8 are both located within the same water body,~~100-year floodplain of~~ SCS Reservoir Site 21, ~~in the eastern portion of the site~~during the 25-year storm event. The reductions in peak flow rates at CP7 and CP8 will not result in adverse alterations of existing drainage patterns. The 25-year storm runoff volume will increase at CP7; however, because the peak discharge rate will be reduced and the runoff volume will be distributed over a longer time period, that increase will not result in an adverse alteration of existing drainage patterns. And, while the 25-year storm runoff volume will increase at CP7 and decrease at CP8 (a net increase of 12.8 acre feet, approximately 12.5%), these changes will ~~not reduce total streamflows or increase the 100-year flood water surface elevation~~be insignificant compared to the receiving body, SCS Reservoir Site 21. For example, the peak storage volume of the SCS Reservoir Site 21 and peak inflow to the reservoir from Dry Creek exceed 2,300 ac-ft and 3,800 cfs, respectively, during the 25-year storm event. Considering the proposed net changes within the water body of less than 4% decrease in peak discharge rate and less than 1% increase in volume,~~.~~ ~~T~~the changes at CP7 and CP8 will not result in adverse alterations of existing drainage patterns.

Drawing C1-A-2 – Existing Condition Runoff Summary: This drawing depicts the existing locations (comparison points) where surface water enters or exits the facility and property boundaries. Each comparison point is shown on the drawing and the peak flow rate and runoff volume is provided in the summary table for each comparison point.

Drawing C1-A-4 – Postdeveloped Runoff Summary: This drawing depicts the locations (comparison points) where surface water enters or exits the facility and property boundaries. Each comparison is shown on the drawing and the peak flow rate and runoff volume is provided in the summary table for each comparison point.

A table comparing the existing condition runoff summary and the postdeveloped runoff summary is provided on page C1-A-5. The existing condition and postdeveloped peak flow rate, runoff volume, and velocity at each comparison point for both the 25- and 100-year, 24-hour rainfall event is provided. The difference, if any, between the existing and postdeveloped runoff results is also provided in the table.

Conclusion

Because: (1) the postdevelopment stormwater discharge points are consistent with the existing site configuration, and (2) development of the 130 Environmental Park Landfill will not adversely alter peak flow rates, velocities, or runoff volumes, the proposed landfill development will not adversely alter existing drainage patterns consistent with §330.305(a).