

AUG 29 2023

Texas Commission on Environmental Quality

Figure: 30 TAC §230.3(c)

VANESSA JAMES, County Clerk  
JACK COUNTY, TEXAS

BY \_\_\_\_\_ DEPUTY

**CERTIFICATION OF GROUNDWATER AVAILABILITY FOR PLATTING FORM**

Use of this form: If required by a municipal authority pursuant to Texas Local Government Code, §212.0101, or a county authority pursuant to §232.0032, Texas Local Government Code, the plat applicant and the Texas licensed professional engineer or Texas licensed professional geoscientist shall use this form based upon the requirements of Title 30, TAC, Chapter 230 to certify that adequate groundwater is available under the land to be subdivided (if the source of water for the subdivision is groundwater under the subdivision) for any subdivision subject to platting under Texas Local Government Code, §212.004 and §232.001. The form and Chapter 230 do not replace state requirements applicable to public drinking water supply systems or the authority of counties or groundwater conservation districts under either Texas Water Code, §35.019 or Chapter 36.

**Administrative Information (30 TAC §230.4)**

1. Name of Proposed Subdivision: Stallion Meadows Estates, Phase 1 &amp; 2

2. Any Previous Name Which Identifies the Tract of Land:

A subdivision of a 341.996 acre tract in the S.P.R.R. Co. Survey, Abstract No. 567, the M. Brunbelow Survey, Abstract No. 1822, and the A. Johnson Survey, Abstract No. 1917 in Jack County, Texas; and the M. Brunbelow Survey, Abstract No. 2290, and the E. Perry Survey, Abstract No. 241 in Parker County, Texas.

3. Property Owner's Name(s): Stallion Meadows Estates, LLC

Address: 665 Simonds Road, Williamstown, Massachusetts 01267

Phone: (682) 472-0212

Fax: N/A

4. Plat Applicant's Name: Stallion Meadows Estates, LLC

Address: 665 Simonds Road, Williamstown, Massachusetts 01267

Phone: (682) 472-0212

Fax: N/A

5. Licensed Professional Engineer or Geoscientist:

Name: Brion C. Bannister, P.E.

Address: 220 La Costa Circle, Weatherford, Texas 76088

Phone: (405) 922-1577

Certificate Number: TX #80563

6. Location and Property Description of Proposed Subdivision:

A subdivision of a 341.996 acre tract in the S.P.R.R. Co. Survey, Abstract No. 567, the M. Brunbelow Survey, Abstract No. 1822, and the A. Johnson Survey, Abstract No. 1917 in Jack County, Texas; and the M. Brunbelow Survey, Abstract No. 2290, and the E. Perry Survey, Abstract No. 241 in Parker County, Texas.

7. Tax Assessor Parcel Number(s).

Jack County

Book: S.P.R.R. Co. Survey	M. Brunbelow Survey	A. Johnson Survey
Map: Abstract No. 567	Abstract No. 1822	Abstract No. 1917

Parker County

Book: M. Brunbelow Survey	E. Perry Survey
Map: Abstract No. 2290	Abstract No. 241

Parcel: Lots 1-20 (Phase 1) & Lots 1-43 (Phase 2)

**Proposed Subdivision Information (30 TAC §230.5)**

8. Purpose of Proposed Subdivision (single family/multi-family residential, non-residential, commercial): Single family

9. Size of Proposed Subdivision (acres): 341.996 acres

10. Number of Proposed Lots: 63

11. Average Size of Proposed Lots (acres): 5.43 acres

12. Anticipated Method of Water Distribution.

Expansion of Existing Public Water Supply System?	Yes	<input checked="" type="radio"/> No
New (Proposed) Public Water Supply System?	Yes	<input checked="" type="radio"/> No
Individual Water Wells to Serve Individual Lots?	<input checked="" type="radio"/> Yes	No
Combination of Methods?	Yes	<input checked="" type="radio"/> No

Description (if needed):

13. Additional Information (if required by the municipal or county authority):

Note: If public water supply system is anticipated, written application for service to existing water providers within a 1/2-mile radius should be attached to this form (30 TAC §230.5(f) of this title).

**Projected Water Demand Estimate (30 TAC §230.6)**

14. Residential Water Demand Estimate at Full Build Out

(includes both single family and multi-family residential).

Number of Proposed Housing Units (single and multi-family): 63

Average Number of Persons per Housing Unit: 2.74

Gallons of Water Required per Person per Day: 90.00

Water Demand per Housing Unit per Year (acre feet/year): 0.28

Total Expected Residential Water Demand per Year (acre feet/year): 17.6

15. Non-residential Water Demand Estimate at Full Build Out. None

Type(s) of Non-residential Water Uses: N/A

Water Demand per Type per Year (acre feet/year): 0.00

16. Total Water Demand Estimate at Full Build Out (acre feet/year): 17.6

17. Sources of Information Used for Demand Estimates:

Texas Water Development Board & U.S. Census Bureau

**General Groundwater Resource Information (30 TAC §230.7)**

18. Identify and describe, using Texas Water Development Board names, the aquifer(s) which underlies the proposed subdivision:

Trinity

Note: Users may refer to the most recent State Water Plan to obtain general information pertaining to the state's aquifers. The State Water Plan is available on the Texas Water Development Board's Internet website at: [www.twdb.state.tx.us](http://www.twdb.state.tx.us)

**Obtaining Site-Specific Groundwater Data (30 TAC §230.8)**

19. Have all known existing, abandoned, and inoperative wells within the proposed subdivision been located, identified, and shown on the plat as required under §230.8(b) of this title?

☒ Yes ☐ No

20. Were the geologic and groundwater resource factors identified under §230.7(b) of this title considered in planning and designing the aquifer test required under §230.8(c) of this title?

☒ Yes ☐ No

21. Have test and observation wells been located, drilled, logged, completed, developed, and shown on the plat as required by §230.8(c)(1) - (4) of this title?

☒ Yes ☐ No

22. Have all reasonable precautions been taken to ensure that contaminants do not reach the subsurface environment and that undesirable groundwater has been confined to the zone(s) of origin (§230.8(c)(5) of this title)?

☒ Yes ☐ No

23. Has an aquifer test been conducted which meets the requirements of §230.8(c)(1) and (6) of this title?

☒ Yes ☐ No

24. Were existing wells or previous aquifer test data used? Yes ☒ No
25. If yes, did they meet the requirements of §230.8(c)(7) of this title? Yes No *N/A*
26. Were additional observation wells or aquifer testing utilized? Yes ☒ No

Note: If expansion of an existing public water supply system or a new public water supply system is the anticipated method of water distribution for the proposed subdivision, site-specific groundwater data shall be developed under the requirements of 30 TAC, Chapter 290, Subchapter D of this title (relating to Rules and Regulations for Public Water Systems) and the applicable information and correspondence developed in meeting those requirements shall be attached to this form pursuant to §230.8(a) of this title.

**Determination of Groundwater Quality (30 TAC §230.9)**

27. Have water quality samples been collected as required by §230.9 of this title? ☒ Yes No
28. Has a water quality analysis been performed which meets the requirements of §230.9 of this title? ☒ Yes No

**Determination of Groundwater Availability (30 TAC §230.10)**

29. Have the aquifer parameters required by §230.10(c) of this title been determined? ☒ Yes No

30. If so, provide the aquifer parameters as determined.

Rate of yield and drawdown: 12 GPM & 90.5 ft. of drawdown

Specific capacity: 0.26 GPM/ft.

Efficiency of the pumped well: 90%

Transmissivity: 385 GPD/ft.

Coefficient of storage: 0.037

Hydraulic conductivity: 3.43 feet/day

Were any recharge or barrier boundaries detected? Yes ☒ No

If yes, please describe:

Thickness of aquifer(s):

31. Have time-drawdown determinations been calculated as required under §230.10(d)(1) of this title? ☒ Yes ☐ No
32. Have distance-drawdown determinations been calculated as required under §230.10(d)(2) of this title? ☒ Yes ☐ No
33. Have well interference determinations been made as required under §230.10(d)(3) of this title? ☒ Yes ☐ No
34. Has the anticipated method of water delivery, the annual groundwater demand estimates at full build out, and geologic and groundwater information been taken into account in making these determinations? ☒ Yes ☐ No
35. Has the water quality analysis required under §230.9 of this title been compared to primary and secondary public drinking water standards as required under §230.10(e) of this title? ☒ Yes ☐ No

Does the concentration of any analyzed constituent exceed the standards?

Yes ☒ No

If yes, please list the constituent(s) and concentration measure(s) which exceed standards:

**Groundwater Availability and Usability Statements (30 TAC §230.11(a) and (b))**

36. Drawdown of the aquifer at the pumped well(s) is estimated to be 94.7 feet over a 10-year period and 99.2 feet over a 30-year period.
37. Drawdown of the aquifer at the property boundary is estimated to be 52.2 feet over a 10-year period and 58.7 feet over a 30-year period.
38. The distance from the pumped well(s) to the outer edges of the cone(s)-of-depression is estimated to be 3,400 feet over a 10-year period and 5,300 feet over a 30-year period.

39. The recommended minimum spacing limit between wells is 150 feet

with a recommended minimum well yield of 8.0 gallons per minute per well.

40. Available groundwater is ~~is not~~ (circle one) of sufficient quality to meet the intended use of the platted subdivision.

41. The groundwater availability determination does not consider the following conditions (identify any assumptions or uncertainties that are inherent in the groundwater availability determination):

**Certification of Groundwater Availability (30 TAC §230.11(c))**

Must be signed by a Texas Licensed Professional Engineer or a Texas Licensed Professional Geoscientist.

42. I, Brion C. Bannister, P.E., Texas Licensed Professional

Engineer or ~~Texas Licensed Professional Geoscientist~~ (circle which applies), certificate

number TX 80563, based on best professional judgment, current groundwater conditions, and

the information developed and presented in this form, certify that adequate groundwater is

available from the underlying aquifer(s) to supply the anticipated use of the proposed subdivision.

Date:

8/18/23

(affix seal)

Brion C. Bannister P.E.

