EDWARDS AQUIFER CONTRIBUTING ZONE PLAN APPLICATION

FOR

A-AFFORDABLE BOAT & RV STORAGE

19790 West State Highway 29 Liberty Hill, TX 78642

PREPARED FOR

A-Affordable Boat & RV Storage, LLC 725 Hwy 287 N Suite 503 Mansfield, TX 76063

PREPARED BY

Baird, Hampton & Brown, Inc. TBPE Firm #44 6300 Ridglea Place, Suite 700 Fort Worth, TX 76116 Tel (817) 338-1277 Fax (817) 338-9245



JUNE 2023

6/29/2023

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EDWARDS AQUIFER APPLICATION COVER PAGE (TCEQ-20705)

Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

- 1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
- 2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

- 3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
- 4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: A-Affordable Storage - Liberty Hill, LLC					2. Regulated Entity No.:			
3. Customer Name: Cody Neef					4. Customer No.:			
5. Project Type: (Please circle/check one)	New	Modif	icatior	1	Exter	nsion	Exception	
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-r	residen	tia		8. Sit	e (acres):	19.991 ac
9. Application Fee:	\$6,500	10. P	ermai	nent H	BMP(s):	Batch detentio	n pond (1)
11. SCS (Linear Ft.):	N/A	12. As	ST/US	ST (No	o. Tar	nks):	N/A	
13. County:	Williamson	14. W	aters	hed:			South Fork Sar	Gabriel River

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region				
County:	Hays	Travis	Williamson	
Original (1 req.)	—		<u>X</u>	
Region (1 req.)			<u>X</u>	
County(ies)			<u>X</u>	
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA	
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City San Marcos Wimberley Woodcreek	Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock	

	San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde	
Original (1 req.)						
Region (1 req.)						
County(ies)						
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde	
City(ies) Jurisdiction	Castle Hills Fair Oaks Ranch Helotes Hill Country Village Hollywood Park San Antonio (SAWS) Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA	

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Chad Wallace

iel

Print Name of Customer/Authorized Agent

A

6/27/2023

Signature of Customer/Authorized Agent

Date

FOR TCEQ INTERNAL USE ONL	LY			
Date(s)Reviewed:		Date Adn	ninistratively Complete:	
Received From:		Correct Number of Copies:		
Received By:		Distribut	ion Date:	
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):		Check: Signed (Y/N):		
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Chad Wallace

Date: 6/27/2023

Signature of Customer/Agent:

al Water

Regulated Entity Name: A-Affordable Boat & RV Storage - Liberty Hill, LLC

Project Information

- 1. County: Williamson County
- 2. Stream Basin: Brazos River Basin
- 3. Groundwater Conservation District (if applicable): N/A
- 4. Customer (Applicant):

Contact Person: <u>Cody Neef</u> Entity: <u>A-Affo</u>rdable Storage Mailing Address: <u>725 H</u>wy 287 N Suite 503 City, State: <u>Mansfi</u>eld, TX Telephone: <u>817-7</u>88-0763 Email Address: <u>jcneef</u>@acs-cgb.com

Zip: <u>76063</u> Fax: _____

TCEQ-10257 (Rev. 02-11-15)

5. Agent/Representative (If any):

Contact Person: <u>Chad</u> Wallace, P.E. Entity: <u>Baird</u>, Hampton & Brown, Inc. Mailing Address: <u>6300</u> Ridglea Place Suite 700 City, State: <u>Fort Worth</u>, TX Telephone: <u>817-338-1277</u> Email Address: <u>cwalla</u>ce@bhbinc.com

Zip: <u>76116</u> Fax: _____

6. Project Location:

The project site is located inside the city limits of _____.

- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
- X The project site is not located within any city's limits or ETJ.
- 7. X The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

This project is located at 19790 West SH 29, Liberty Hill, TX. It is between Bertram and Liberty Hill and near the Williamson-Burnet county line.

- 8. X Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9. X Attachment B USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:
 - X Project site boundaries.
 - X USGS Quadrangle Name(s).
- 10. X Attachment C Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:
 - X Area of the site
 - X Offsite areas
 - X Impervious cover
 - X Permanent BMP(s)
 - X Proposed site use
 - X Site history
 - X Previous development
 - X Area(s) to be demolished
- 11. Existing project site conditions are noted below:
 - X Existing commercial site
 - Existing industrial site
 - Existing residential site

Existing paved and/or unpaved roads

Undeveloped (Cleared)

Undeveloped (Undisturbed/Not cleared)

- Other: _____
- 12. The type of project is:



13. Total project area (size of site): <u>19.991</u>Acres

Total disturbed area: <u>6.9</u> Acres

- 14. Estimated projected population: 0
- 15. The amount and type of impervious cover expected after construction is complete is shown below: NOTE: Existing impervious cover is 7.50 ac. Total Impervious Cover is the net final impervious area (some impervious areas removed during construction).

			· · · · · · · · · · · · · · · · · · ·	
Table	1	-	Impervious	Cover

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	73,500 sf	÷ 43,560 =	1.69 ac
Parking		÷ 43,560 =	
Other paved surfaces	135,670 sf	÷ 43,560 =	3.11 ac
Total Impervious Cover	502,160 sf	÷ 43,560 =	11.53 ac

Total Impervious Cover <u>11.53 ac</u> Total Acreage <u>19.991</u> X **100** = <u>57.67</u> % Impervious Cover

16. X Attachment D - Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. X Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

X N/A

18.	Туре	of	project:
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TXDOT road project. County road or roads built to county specifications. City thoroughfare or roads to be dedicated to a municipality. Street or road providing access to private driveways. 19. Type of pavement or road surface to be used: Concrete Asphaltic concrete pavement Other: 20. Right of Way (R.O.W.): Length of R.O.W.: _____ feet. Width of R.O.W.: feet. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$ 21. Pavement Area: Length of pavement area: _____ feet. Width of pavement area: feet. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$ Pavement area acres ÷ R.O.W. area acres x 100 = % impervious cover.

22. A rest stop will be included in this project.

A rest stop will not be included in this project.

23. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

24. X Attachment E - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

25. Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

X N/A

26. Wastewater will be disposed of by:

On-Site Sewage Facility (OSSF/Septic Tank):

 Attachment F - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities. Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.
Sewage Collection System (Sewer Lines): The sewage collection system will convey the wastewater to the (name) Treatment Plant. The treatment facility is:
Existing. Proposed.

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

XN/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			
	·	То	tal x 1 5 - Gallons

Total x 1.5 = ____ Gallons

28. The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

Attachment G - Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

Table	3 -	Secondary	Containment
-------	-----	-----------	-------------

Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons

Total: _____ Gallons

30. Piping:

] All piping, hoses, and dispensers will be located inside the containment structure.

Some of the piping to dispensers or equipment will extend outside the containment structure.

The piping will be aboveground

The piping will be underground

- 31. The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of:
- 32. Attachment H AST Containment Structure Drawings. A scaled drawing of the containment structure is attached that shows the following:
 - Interior dimensions (length, width, depth and wall and floor thickness).
 - Internal drainage to a point convenient for the collection of any spillage.

Tanks clearly labeled

Piping clearly labeled

Dispenser clearly labeled

33. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

34. X The Site Plan must have a minimum scale of 1'' = 400'.

Site Plan Scale: 1" = <u>80</u>'.

35. 100-year floodplain boundaries:

Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

X No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRMettes 48491C0230F (effective 12/20/2019) and 48491C0210F (effective 12/20/2019), obtained on 12/19/2022.

36. X The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

- 37. X A drainage plan showing all paths of drainage from the site to surface streams.
- 38. X The drainage patterns and approximate slopes anticipated after major grading activities.
- 39. X Areas of soil disturbance and areas which will not be disturbed.
- 40. X Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41. X Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).

X N/A

43. Locations where stormwater discharges to surface water.

X There will be no discharges to surface water.

44. Temporary aboveground storage tank facilities.

X Temporary aboveground storage tank facilities will not be located on this site.

45. Permanent aboveground storage tank facilities.

X Permanent aboveground storage tank facilities will not be located on this site.

46. X Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. X Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.



- 48. X These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.

🗌 N/A

49. X Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

🗌 N/A

50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

The site will be used for low density single-family residential development and has 20% or less impervious cover.

The site will be used for low density single-family residential development but has more than 20% impervious cover.

X The site will not be used for low density single-family residential development.

The executive director may waive the requirement for other permanent BMPs for multi-
family residential developments, schools, or small business sites where 20% or less
impervious cover is used at the site. This exemption from permanent BMPs must be
recorded in the county deed records, with a notice that if the percent impervious cover
increases above 20% or land use changes, the exemption for the whole site as described in
the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing
and Approval), may no longer apply and the property owner must notify the appropriate
regional office of these changes.

Attachment I - 20% or Less Impervious Cover Waiver. The site will be used for
multi-family residential developments, schools, or small business sites and has 20%
or less impervious cover. A request to waive the requirements for other permanent
BMPs and measures is attached.

The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

X The site will not be used for multi-family residential developments, schools, or small business sites.

52. X Attachment J - BMPs for Upgradient Stormwater.

X A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. X Attachment K - BMPs for On-site Stormwater.

A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff.

- 54. Attachment L BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.
 - X N/A
- 55. X Attachment M Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

N/A

56. 🗙	Attachment N - Inspection, Maintenance, Repair and Retrofit Plan . A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:
	X Prepared and certified by the engineer designing the permanent BMPs and measures
	X Signed by the owner or responsible party
	X Outlines specific procedures for documenting inspections, maintenance, repairs,
	and, if necessary, retrofit.

X Contains a discussion of record keeping procedures

□ N/A

57. Attachment O - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

X N/A

58. Attachment P - Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

X N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

- 59. X The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- 60. X A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development,

or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

- 61. X Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
- 62. X Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. X The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
 - The Temporary Stormwater Section (TCEQ-0602) is included with the application.

Attachment A – Road Map

From the TCEQ Austin Regional Office, drive north on IH-35. In Georgetown, head west on SH 29. The project is located at 19790 West SH 29, west of Liberty Hill. See attached map of project location.



Attachment B – USGS Quadrangle Map











BERTRAM, TX 2022











Attachment C – Project Narrative

The A-Affordable Boat & RV Storage project is located on a 19.991-acre commercial lot in Williamson County at 19790 West State Highway 29, between Bertram and Liberty Hill and near the Williamson-Burnet county line.

This project consists of the expansion of an existing RV storage facility. As a commercial property, the occupancy of the property is zero. The existing facility covers approximately half of the property, with roughly 96,645 square feet of storage and auxiliary buildings and 7.50 acres of total impervious cover. The existing pavement is gravel. The proposed expansion includes the construction of 6 storage buildings totaling 73,500 square feet and 4.05 acres of net added impervious cover (a portion of the existing pavement will be removed for the construction of the batch detention pond). The proposed facility will be paved with asphalt.

The proposed project will include a batch detention pond which will mitigate impacts to stormwater runoff volume and quality. The pond will treat both the onsite runoff and the offsite runoff from approximately 27 acres and will detain stormwater to the existing runoff rates for the 2-, 10-, 25-, and 100-year storms. No negative impacts to downstream properties are anticipated.

This site is under the jurisdiction of Williamson County. No portion of the site falls within the 100-year floodplain per FEMA FIRMettes 48491C0230F (effective 12/20/2019) and 48491C0210F (effective 12/20/2019). The site is located within the Edwards Aquifer Contributing Zone. (See the attached FEMA and Edwards Aquifer maps.)

Edwards Aquifer Map A-Affordable Storage

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Attachment D – Factors Affecting Surface Water Quality

There are no streams, ponds, or other bodies of water located on this property.

Potential sources of runoff contamination include but are not limited to:

- Sediment disturbed during construction activities
- Pollutants from asphalt paving operations
- Particulate matter and oils from asphalt pavement after construction is complete
- Spilled concrete during foundation construction and cleanup
- Pollutants from construction machinery including engine oil, diesel or gasoline, hydraulic fluid, engine coolant (antifreeze), brake fluid, grease, etc.
- Pollutants from RV repair activities, including engine oil, diesel or gasoline, hydraulic fluid, engine coolant (antifreeze), brake fluid, grease, etc.

Attachment E – Volume and Character of Stormwater

The A-Affordable Boat & RV Storage project consists of the development of approximately 6.6 acres of an existing 19.991-acre tract of land. The scope of this project includes detaining and conveying the onsite and off-site stormwater runoff which flows to the proposed development area only; it does not include detaining the runoff from the existing storage facility or from the fire lane being repaved with asphalt from the driveway to the proposed development area.

Refer to the construction plans (Attachment M) for existing and proposed drainage area maps and detailed runoff, detention, and water quality calculations. Detention calculations are based on the City of Austin Drainage Criteria Manual, as required by Williamson County.

The property generally drains to the southwest toward SH 29, with no defined channelized flow across the property. The runoff passes through culverts under one private driveway, SH 29, and County Road 322 before discharging to a pond, which then discharges to stream segment 1250 of the South Fork of the San Gabriel River.

Since the drainage area is approximately 27 acres (less than 200 acres), the Rational Method was used to calculate the stormwater runoff for design years 2, 10, 25, and 100. The City of Austin requires varying runoff coefficient C values for different design years; uses the NRCS Technical Release 55 (TR-55) method for calculating time of concentration; and uses Atlas 14 rainfall data to determine intensity. The 100-year design discharge for the project is increased from 97.59 cfs pre-development to 126.15 cfs post-development. However, the runoff will be detained to the existing runoff rate for the given design years, so there will be no adverse impacts to downstream properties.

Vehicle traffic within the proposed storage facility is expected to be relatively low compared to roadways or busy parking lots; therefore, vehicle pollutants are not expected to greatly affect the quality of stormwater runoff.

	Pre-Development	Post-Development
2-Year	0.37	0.51
10-Year	0.43	0.57
25-Year	0.47	0.61
100-Year	0.54	0.69

Table 1: City of Austin Runoff Coefficients

Attachment F – Suitability Letter from Authorized Agent (if OSSF is proposed)

Attachment G – Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)

Attachment H – AST Containment Structure Drawings (if AST is proposed)

Attachment I – 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)

Attachment J – BMPs for Upgradient Stormwater

Due to the difficulty of diverting the off-site stormwater around the property and away from the proposed permanent BMPs, the upgradient off-site stormwater will be treated for water quality with the on-site stormwater. See **Attachment K** for descriptions of the proposed temporary and permanent stormwater quality BMPs.

Attachment K – BMPs for On-Site Stormwater

Temporary BMPs

Temporary Erosion Control BMPs

• Dust control on the project site will be achieved by regular irrigation of disturbed areas.

Temporary Sedimentation Control BMPs

- The batch detention pond will be constructed first and serve as the sediment control pond for the duration of construction.
- A silt fence will be installed on the downstream property line (the western property line) as shown in the construction plans.
- A concrete washout will be provided for the duration of all concrete pouring activities.

Permanent BMPs

Under the Texas Administrative Code (TAC) Title 30 Chapter 213, for new development in the Edwards Aquifer Contributing or Recharge Zones, permanent stormwater quality BMPs must be designed, implemented, and maintained to remove 80% of the increased annual mass of total suspended solids (TSS) in stormwater runoff due to added impervious cover. Although this might be achieved by a BMP with an efficiency lower than 80% by treating more than the required volume of runoff, TCEQ's "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (RG-348) also requires a minimum TSS removal efficiency of 80% in order to minimize the increased concentration of contaminants. If off-site runoff cannot be diverted from entering the proposed BMP, it must also be treated.

For this project, both off- and on-site stormwater will be treated in a batch detention pond with a SmartPOND valve outlet, which will achieve the annual removal of the minimum 3,521 pounds of total suspended solids. The pond is also designed to detain the 2-, 10-, 25-, and 100-year storms to the existing runoff rates. Thus, the batch detention pond will address both stormwater runoff volume and quality, with no adverse effects to downstream properties.

See the construction plans in Attachment M for detailed calculations and pond design.

Upon substantial completion of soil-disturbing activities, all unpaved disturbed areas subject to erosion shall be permanently stabilized with seeding and hydraulic mulch. Temporary erosion and sedimentation control measures shall not be removed until permanent vegetation is well-established.

Attachment L – BMPs for Surface Streams

NOT APPLICABLE

There are no streams, ponds, or other bodies of water located on this property.

Attachment M – Construction Plans





Jun 29, 2023 – 9:31am JRAWING FILE: E:\2022.00

<u>OWNER</u> CODY NEEF JCNEEF@ACS-CGB.COM 817-788-0763 AUTHENTIC CONTRACTING SOLUTIONS 725 Hwy 287 N. SUITE 503 MANSFIELD, TEXAS 76063

CONSTRUCTION PLANS FOR A-AFFORDABLE BOAT, RV, AND MINI STORAGE, LLC WILLIAMSON COUNTY, TEXAS

<u>VICINTY MAP</u> N.T.S. June 2023



	Sheet List Table
t Number	Sheet Title
	COVER
	TOPOGRAPHIC SURVEY
C1.0	GENERAL NOTES
C2.0	DEMOLITION PLAN
C3.0	SITE PLAN
C4.0	TEMPORARY EROSION CONTROL PLAN
C4.1	PERMANENT EROSION CONTROL PLAN
C4.2	EROSION CONTROL DETAILS
C5.0	GRADING PLAN
C6.0	EXISTING DRAINAGE AREA MAP
C6.1	PROPOSED DRAINAGE AREA MAP
C6.2	BATCH DETENTION POND PLAN
C6.3	DETENTION & WATER QUALITY
	CALCULATIONS (1 OF 2)
C6.4	DETENTION & WATER QUALITY
	CALCULATIONS (2 OF 2)
C6.5	DETENTION DETAILS
C7.0	CONSTRUCTION DETAILS



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Texas Commission on Environmental Quality Contributing Zone Plan **General Construction Notes**

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

- 1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction activities. This notice must include:
 - the name of the approved project; - the activity start date; and
 - the contact information of the prime contractor.
- 2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter onsite.
- No hazardous substance storage tank shall be installed within 150 feet of a water supply 3. source, distribution system, well, or sensitive feature.
- Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) 4. control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- 5. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- Sediment must be removed from the sediment traps or sedimentation basins when it occupies 6. 50% of the basin's design capacity.
- Litter, construction debris, and construction chemicals exposed to stormwater shall be 7. prevented from being discharged offsite.
- 8. All excavated material that will be stored on-site must have proper E&S controls.
- 9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil

TCEQ-0592A (Rev. July 15, 2015)

Page 1 of 2

TCEQ-0592A (Rev. July 15, 2015)

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stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

10. The following records should be maintained and made available to the TCEQ upon request: - the dates when major grading activities occur;

- the dates when construction activities temporarily or permanently cease on a portion of the site: and

- the dates when stabilization measures are initiated.

11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;

any change in the nature or character of the regulated activity from that which was originally approved;

any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or

any development of land previously identified as undeveloped in the approved contributing zone plan.

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

Page 2 of 2



<u>GENERAL NOTES</u>

- 1. ALL LINES, GRADES, CONSTRUCTION STAKING AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S AGENT.
- 3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR FACE OF WALL.
- 4. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MUNICIPAL AND FRANCHISE UTILITY COMPANIES AND LOCATING ALL UTILITIES IN THE FIELD.
- 5. ALL LOT LINES BASED ON BEST AVAILABLE DATA. THE CONTRACTOR SHALL NOTIFY ENGINEER IN THE EVENT OF ANY DISCREPANCY THAT WOULD ALTER THE GRADING FLOW AS DESIGNED, OR ANY FEATURE THAT IMPACTS THE ABILITY TO CONSTRUCT THE DESIGN AS SHOWN ON THIS PLAN. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY WILLIAMSON COUNTY.
- CONTRACTOR/OWNER SHALL COORDINATE WITH WILLIAMSON COUNTY TO OBTAIN ALL REQUIRED PERMITS BEFORE COMMENCING WORK.

<u>CONSTRUCTION NOTES</u>

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO WILLIAMSON COUNTY AND/OR THE NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WHICHEVER IS MORE RESTRICTIVE.
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- 3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. SOIL/SEDIMENT THAT IS ERODED FROM THE IMMEDIATE SITE SHALL BE REMOVED BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL PROTECT ALL EXISTING TREES. PRIOR TO REMOVAL OF ANY TREE, CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER.



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GRAPHIC SCALE: 1" = 80 Fee 1" = 160Fee	et (22"x34") et (11"x17")
<u> </u>	<u>ND</u>
PROPERTY LINE	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
EXISTING GRAVEL PAVING	
REMOVE GRAVEL PAVING	
REMOVE BUILDING	
REMOVE FENCE	<u> </u>



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<u>FIRE</u>

1. FIRE LANE SHALL BE MINIMUM 25' IN WIDTH. ALL INTERIOR RADII SHALL BE 25' AND ALL EXTERIOR RADII SHALL BE 50'. 2. FIRE LANE MUST BE CONSTRUCTED OF ASPHALT OR CONCRETE ONLY, CAPABLE OF WITHSTANDING AN IMPOSED LOAD OF 75,000 POUNDS. 3. ALL OVERHEAD OBSTRUCTIONS ABOVE THE FIRE LANE SHALL BE NO LESS THAN 13'-6" IN HEIGHT.



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PROPOSED BUILDING TABLE						
BUIL	DING	SF		UNITS PER BUILDING		TOTAL UNUTS
#	ТҮРЕ	PER BUILDING	TOTAL	14'X30'	14'X40'	
1, 3, 5	ENCLOSED	12,740	38,220	13	13	78
2, 4, 6	ENCLOSED	11,760	35,280	12	12	72
		TOTAL	73,500	75	75	150





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2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES MUST BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER.

3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFFSITE SEDIMENTATION FROM THE PROJECT, THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ONSITE.

4. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.

5. SEDIMENT THAT IS ERODED FROM THE SITE AND DEPOSITED INTO ADJACENT PROPERTIES OR PUBLIC RIGHT-OF-WAY SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN AN APPROPRIATE MANNER.

6. AFTER CONSTRUCTION, ALL DISTURBED AREAS SHALL BE SEEDED WITH AN APPROPRIATE ANNUAL GRASS TO PROVIDE PERMANENT VEGETATIVE STABILIZATION.

EROSION CONTROL

	<u>. E G E N D</u>	
DESCRIPTION	SYMBOL	LOCATION
SILT FENCE		AS SHOWN, SEE PLAN

<u>EROSION CONTROL</u> <u>CONSTRUCTION</u> <u>RESPONSIBILITIES</u>					
EROSION CONTROL MEASURE	INSTALLATION RESPONSIBILITY	MAINTENANCE RESPONSIBILITY			
SILT FENCE	EARTHWORK CONTRACTOR	ALL CONTRACTORS			

* NOTE: CONTRACTOR TO DETERMINE LOCATIONS OF DUMPSTER, CONCRETE WASHOUT, AND CHEMICAL TOILET IN THE FIELD. CONTRACTOR TO DETERMINE SIZE OF CONCRETE WASHOUT.





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EROSION CONTROL IFGFND

DESCRIPTION	SYMBOL	LOCATION			
PERMANENT ROCK RIPRAP		AS SHOWN, SEE PLAN			
PERMANENT SEEDING	+ + + + + + + +	AS SHOWN, SEE PLAN			

<u>EROSION CONTROL</u> <u>CONSTRUCTION</u> <u>RESPONSIBILITIES</u>					
EROSION CONTROL MEASURE	INSTALLATION RESPONSIBILITY	MAINTENANCE RESPONSIBILITY			
PERMANENT ROCK RIPRAP	EARTHWORK CONTRACTOR	ALL CONTRACTORS			
PERMANENT SEEDING	EARTHWORK CONTRACTOR	ALL CONTRACTORS			







SILT FENCE GENERAL NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

5. INSPECTION SHALL BE MADE EVERY WEEK AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-THIRD THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS NOT TO CONTRIBUTE TO ADDITIONAL SEDIMENTATION.

CONCRETE WASHOUT AREA





INSTALLATION:

CONCRETE WASHOUT AREAS

- 1. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE AND WASHOUT PITS SHALL BE SITUATED A MINIMUM OF FIFTY (50) FEET FROM SAID CONVEYANCES.
- 2. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT OF THE SUMP SHALL BE CUT AND PLUGGED.
- 3. ENSURE A STABLE PATH IS PROVIDED FOR CONCRETE TRUCKS TO REACH THE WASHOUT AREA.
- 4. A HIGHLY VISIBLE SIGN THAT READS "CONCRETE WASHOUT AREA" SHALL BE ERECTED ADJACENT TO THE WASHOUT PIT.
- 5. SURFACE RUNOFF GENERATED FROM UPSLOPE AREAS SHALL BE DIVERTED AWAY FROM
- BELOW-GRADE PITS SO AS NOT TO FLOW INTO THEM. 6. A SINGLE CENTRALIZED WASHOUT AREA MAY BE UTILIZED FOR MULTIPLE POUR LOCATIONS.

MAINTENANCE:

- 7. THE WASHOUT PIT MUST BE INSPECTED DAILY OR A MINIMUM OF EACH DAY THE PIT IS USED AND BEFORE IT IS USED TO ENSURE THE LINER IS INTACT.
- 8. ONCE 75% OF THE ORIGINAL VOLUME OF THE WASHOUT PIT IS FILLED OR IF THE LINER IS TORN, THE MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF, THE LINER MUST BE REPLACED (IF TORN) AND A NEW PIT MUST BE CONSTRUCTED. THE STRUCTURE MUST BE REPLACED IF IT IS DAMAGED OR NO LONGER SUITABLE TO PERFORM THE ORIGINAL PURPOSE.

REMOVAL:

- 9. ONCE THE WASHOUT PIT IS NO LONGER NEEDED, ENSURE ALL WASHOUT MATERIAL HAS COMPLETELY HARDENED, THEN REMOVE AND PROPERLY DISPOSE OF ALL MATERIALS. IF STRAW BALES WERE USED, THEY CNA BE SPREAD AS MULCH.
- 10. PREFABRICATED CONTAINERS SPECIFICALLLY DESIGNED FOR CONCRETE WASHOUT COLLECTION MAY BE USED SUBJECT TO PRIOR APPROVAL BY TEH CITY'S REPRESENTATIVE. FOLLOW THE MANUFACTURER'S SUGGESTIONS FOR INSTALLATION, MAINTENANCE AND REMOVAL PRECEDURES.

SIZING OF CONCRETE WASHOUT PITS

Below-grade	(3Ft. De	pth)
"# of concrete trucks expected to be washed out on site*"	Width (Ft)	Length (Ft)
2-3	3	3
4-5	4	4
6-7	5	5
8-10	6	6
11-14	7	7

Above-grade (2Ft. Depth)							
"# of concrete trucks expected to be washed out on site*"	Width (Ft)	Length (Ft)					
2	3	3					
3-4	4	4					
5-6	5	5					
7-8	6	6					
9-11	7	7					
12-15	8	8					

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF PROPERLY. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF PROPERLY. HOLES, DEPRESSIONS, OR ANY OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

INSPECTION AND MAINTENANCE INSPECT AND VERIFY THAT ACTIVITY-BASED BMPS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. WHEN ACTIVITIES ASSOCIATED WITH THE BMP ARE UNDER WAY. INSPECT WEEKLY DURING THE RAINY SEASON, AND AT TWO WEEK INTERVALS IN THE NON-RAINY SEASON TO VERIFY CONTINUED BMP IMPLEMENTATION. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 IN. FOR ABOVE GRADE FACILITIES, AND 12 IN. FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.



- BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DISCREPANCIES TO THE OWNER'S AGENT.
- OR FACE OF WALL.
- ALTHOUGH SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MUNICIPAL AND FRANCHISE UTILITY COMPANIES AND LOCATING ALL UTILITIES IN THE FIELD.
- CONTRACTOR SHALL NOTIFY ENGINEER IN THE EVENT OF ANY DISCREPANCY THAT WOULD ALTER THE GRADING FLOW AS DESIGNED, OR ANY FEATURE THAT IMPACTS THE ABILITY TO CONSTRUCT THE DESIGN AS SHOWN ON THIS PLAN. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY WILLIAMSON COUNTY.
- COUNTY TO OBTAIN ALL REQUIRED PERMITS BEFORE COMMENCING WORK.

- WILLIAMSON COUNTY AND/OR THE NCTCOG STANDARD IS MORE RESTRICTIVE.
- A RESULT OF CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANY. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE LOCATION.
- CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. SOIL/SEDIMENT THAT IS ERODED FROM THE IMMEDIATE SITE SHALL BE REMOVED BY THE CONTRACTOR.
- REMOVAL OF ANY TREE, CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER.



	"C" VALUES PRE-DEVELOPMENT							
Drainage Area	Total Area	Undeveloped*	Asphalt	Composite				
А	27.29	24.34	2.95	Runoff 'C'				
C Values by	2-Year	0.33	0.73	0.37				
C- values by Design Veer	10-Year	0.38	0.81	0.43				
(City of Austin)	25-Year	0.42	0.86	0.47				
	100-Year	0.49	0.95	0.54				

* Pasture/range (2-7% slope)

	PRE-DEVELOPMENT TIME OF CONCENTRATION															
									TR-55							
	Sheet Flow Shallow Concentrated Channelized								Те							
	Area	Length		P2	Slope	Time	Length	Slope	Equation	Velocity	Time	Length	Slope	Velocity	Time	ĨĊ
Drainage Area	ac	ft	n	in	%	min	ft	%	1=Paved 2=Unpaved	fps	min	ft	%	ft/s	min	min
А	27.29	100	0.13	3.40	1.35%	9.9	2240	1.49%	2	2.0	18.9	0	N/A	N/A	N/A	28.9

				PRE-DE\	/ELOPME	NT RATIO	NAL HYD	DROLOGI	C CACUL	ATIONS				
				2 yr			10 yr			25 yr			100 yr	
	Atlas 14 Rain	fall Intensity		b=	60.95		b==	88.06		b=	110.07		b==	155.59
	$l=b/(Tc+d)^c$			d=	13.40		d=	13.26		d=	15.07		d=	17.40
				e=	0.8344		e=	0.8163		e=	0.8183		e=	0.8232
Drainage Arag	Arca	Tc	Pupoff 'C'	Intensity	Discharge	Pupoff 'C'	Intensity	Discharge	Pumoff 'C'	Intensity	Discharge	Pumoff (C)	Intensity	Discharge
Diamage Area	ac	min	Kulon C	iph	cfs	Kulon C	iph	cfs	Kuloff C	iph	cfs	Runon C	iph	cfs
А	27.29	28.9	0.37	2.68	27.31	0.43	4.16	48.38	0.47	4.98	63.58	0.54	6.63	97.59





"C" VALUES POST-DEVELOPMENT									
Drainage Area	Total Area	Undeveloped*	Asphalt	Composite	Dunoff'(C)				
A-1	26.86	15.08	11.78		e Kulloll C				
A-2 (BYPASS)	0.46	0.46	0.00	A-1	A-2				
C Values by	2-Year	0.33	0.73	0.51	0.33				
C-values by	10-Year	0.38	0.81	0.57	0.38				
(City of Austin)	25-Year	0.42	0.86	0.61	0.42				
	100-Year	0.49	0.95	0.69	0.49				

* Pasture/range (2-7% slope)

					POST-	DEVELC	PMENT	TIME O	F CONCEN	ITRATIC	N					
									TR-55							
				Sheet Flov	V			Sha	llow Concent	rated			Chan	nelized		То
	Area	Length		P2	Slope	Time	Length	Slope	Equation	Velocity	Time	Length	Slope	Velocity	Time	10
Drainage Area	ac	ft	n	in	%	min	ft	%	1=Paved 2=Unpaved	fps	min	ft	%	ft/s	min	min
A-1	26,86	100	0.13	3.40	1.35%	9.9	1685	1.44%	2	1.9	14.5	923	2.77%	5.0	3.1	27.5
A-2 (BYPASS)	0.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0

				POST-DE	VELOPME		ONAL HY	DROLOG		ATIONS				
	Atlas 14 Rainfall Intensity			2 yr			10 yr			25 yr			100 yr	
				b=	60.95		b=	88.06		b=	110.07		b=	155.59
	$1=b/(Tc+d)^{c}$			d=	13.40		d=	13.26		d=	15.07		d=	17.40
				e=	0.8344		e=	0.8163		e=	0.8183		e=	0.8232
Drainaga Araa	Area	Τc	Rupoff 'C'	Intensity	Discharge	Runoff 'C'	Intensity	Discharge	Runoff 'C'	Intensity	Discharge	Runoff 'C'	Intensity	Discharge
Drainage Area	ac	min	Kulon C	iph	cfs	Ruion C	iph	cfs	Kulon C	iph	cfs	Runon C	iph	cfs
A-1	26.86	27.5	0.51	2.75	37.40	0.57	4.27	65.20	0.61	5.11	84.16	0.69	6.79	126.15
A-2 (BYPASS)	0.46	5.0	0.33	5.37	0.82	0.38	8.22	1.45	0.42	9.46	1.84	0.49	12.04	2.73







FROM THE OWNER. EXISTING BERM ALONG PROPERTY LINE — X



WATER QUALITY VOLUME CALCULATIONS

100-YR DETENTION VOLUME CALCULATIONS

100yr Detention Pond Calculations

Water Quality Volume								
Enter data in red fields								
Calculated values in bold fields								
Step 1: Required TSS Removal								
Equation 3.3 Lm = 27.2*(An*P)								
Note: Include all runoff to BMP, including off-site.								
Pre Ai = 2.52 Pre-development impervious area (ac) Post Ai = 6.57 Post-development impervious area (ac) An = 4.05 Net increase in impervious area (ac) P = 32 Average annual precipitation (in.) Lm = 3,521 Required TSS Removal (lb)								
Step 2: Select an Appropriate BMP								
Name of BMP: Batch Detention Pond w/ SmartPOND Valve E, Efficiency of BMP: 91% (if < 80%, additional BMPs required)								
Step 3: Calculate TSS Load Removed by BMP								
Equation 3.8 Lr = E*P*(34.6*Ai + 0.54*Ap) E = 91% BMP Efficiency P = 32 Average annual precipitation (in.) Ai = 6.57 Post-development impervious area (ac) A = 26.52 Post-development total tributary area (ac) Ap = 19.96 Post-development pervious area (ac) Lr = 6,930 Load removed by BMP (lb)								
Step 4: Calculate Fraction of Annual Runoff to be Treated								
Equation 3.9 F = Lm / Lr F = Fraction of annual rainfall to be treated by the BMP Lm = Required TSS removal from Step 1 Lr = TSS removed by BMP from Step 3 F = 0.51								
Step 5: Calculate Capture Volume								
Equation 3.10 WQV = Rainfall Depth * C * A Rainfall Depth from Table 3-5 based on Fcalculated in Step 4. Depth = 0.44 in. = 0.037 feet								
Equation 3.11 C = Runoff Coefficient = 1.72(IC)^3 - 1.97(IC)^2 + 1.23(IC) + 0.02 IC = 0.25 Fraction of impervious cover C = 0.23								
A = 26.52 Total tributary area, acres = 1,155,405 sqare feet								
WQV = 9,738 cf Sed. Storage = 1,948 cf, 20% of WQV Total WQV = 11,685 cf 433 cv								

100 yr			Drainage	Area	Pre-Dev	elopme
Atlas 14 Rainfall Intensity			Area	ac	С	(
I=b/(tc+c	i)^e		А	26.52	0.53	105
	b=	150.9468		Total Runoff	Q ₁ =	105
	d=	15.8200				
	e=	0.7992				

Duration	т	Pre-Dev.	Post-Dev.	
Td	1	Q	Q	
min	iph	cfs	cfs	
10	11.23	158.98	177.66	
15	9.75	138.01	154.22	
20	8.65	122.38	136.76	
25	7.79	110.25	123.20	
30	7.10	100.52	112.33	
35	6.54	92.54	103.41	
40	6.06	85.85	95.94	
45	5.66	80.16	89.58	
50	5.32	75.26	84.10	
55	5.01	70.98	79.32	
60	4.75	67.21	75.11	
70	4.30	60.88	68.03	
80	3.94	55.74	62.29	
90	3.64	51.49	57.54	
100	3.38	47.91	53.54	
110	3.17	44.84	50.11	
120	2.98	42.18	47.14	
150	2.54	35.96	40.19	
180	2.22	31.49	35.19	
210	1.98	28.10	31.40	
240	1.80	25.43	28.42	
	Storage Volur	ne Required=	27,154	cf
		WQV=	11,685	cf
	Total Stor	age Volume=	38,840	cf
		=	1,439	су

25-YR DETENTION VOLUME CALCULATIONS

	25yr	Detention Pon
inage	Area	Pre-Develo

25 yr			Drainage	Area	Pre-Dev	elo
Atlas 1	4 Rainfa	ll Intensity	Area	ac	C	Γ
[=b/(tc-	⊦d)^e		Α	26.52	0.46	Г
	b=	109.8397	Total Runo	ff from Site	Q1=	Γ
	d=	13.7038				
	e=	0.7994				

Duration	T T	Pre-Dev.	Post-Dev.
Td		Q	Q
min	iph	cfs	cfs
10	8.74	107.11	121.20
15	7.50	91.92	104.00
20	6.60	80.84	91.47
25	5.91	72.38	81.90
30	5.36	65.68	74.32
35	4.92	60.23	68.15
40	4.55	55.71	63.03
45	4.24	51.88	58,70
50	3.97	48.60	54.99
55	3.73	45.75	51.77
60	3.53	43.25	48.94
70	3.19	39.07	44.21
80	2.91	35.70	40.39
90	2.69	32.92	37.25
100	2.50	30.58	34.60
110	2.33	28.59	32.35
120	2.19	26.87	30.40
150	1.87	22.85	25.86
180	1.63	19.98	22.60
210	1.45	17.81	20.15
240	1.31	16.10	18.22
	Storage Volur	ne Required=	19,214
		WQV=	11,685
	Total Stor	age Volume=	30,899
		=	1,144

NOTE: THE SMARTPOND VALVE	
HOURS FROM THE BEGINNING	
DETAIN THE WATER QUALITY V	С
DURATION OF THE DESIGN STO	С
CALCULATIONS FOR THE DESIG	3
SMARTPOND VALVE OUTFLOW	Q

<u>10-YR DETENTION VOLUME CALCULATIONS</u>

 80.04
 91.42

 68.24
 77.93

59.74 68.23

53.30 60.87

48.24 55.09

44.14 50.41

40.75 46.54

37.89 43.28

35.45 40.49

33.34 38.07

31.49 35.96

23.87 27.26

19.44 22.20

16.51 18.85

14.41 16.46

 $\begin{array}{c|cccc} 11.60 & 13.25 \\ \hline \text{ne Required} = & 14,953 \text{ cf} \end{array}$

WQV= 11,685 cf

= 987 cy

32.43

29.59

25.31 23.64

14.66

28.40

25.91

22.16

20.70

12.84

Total Storage Volume= 26,639 cf

7.17

6.11

5.35

4.77

4.32

3.95

3.65

3.39

3.18

2.99 2.82

2.54

2.32

2.14

1.98

1.85

1.74

1.48

1.29

1.15

1.04

Storage Volume Required=

lopment	Drainage	Area	Post-Dev	elopment
Q	Area	ac	С	Q
105.72	A-1	26.12	0.61	119.47
105.72			Q ₁ =	119.47
	-	Bypass	Q _{bypass=}	2.64
	Allow	able Outflow	$Q_{allow=}$	103.08
	Desig	ned Outflow	Q _{design=}	103.08

10 yr

10 15

20

25

30

35

40

45

50

55

60 70

80

90

100 110

120

150

180

210

240

Inflow	Outflow	Storage
cf	cf	cf
106,595	113,195	0
138,800	128,657	10,143
164,114	144,120	19,994
184,801	159,583	25,218
202,199	175,045	27,154
217,159	190,508	26,652
230,250	205,970	24,279
241,867	221,433	20,434
252,297	236,896	15,401
261,753	252,358	9,395
270,397	267,821	2,576
285,725	298,746	0
299,009	329,671	0
310,729	360,596	0
321,216	391,522	0
330,709	422,447	0
339,383	453,372	0
361,685	546,148	0
380,009	638,923	0
395,609	731,699	0
409,226	824,474	0

10yr Detention Pond Calculations

10 yr		Drainage	Area	Pre-Development		Drainage	Area	Post-Dev	relop ment
Atlas 14 Rain	fall Intensity	Area	ac	С	Q	Area	ac	С	Q
I=b/(tc+d)^e		А	26.52	0.42	50.93	A-1	26.12	0.49	58.87
b=	87.6084	Total Runo	ff from Site	Q1=	50.93			Q ₁ =	58.87
d=	12,7018					-	Bypass	Q _{bypass=}	1.34
e=	0.8016					Allow	able Outflow	Qallow-	49.59
						Desig	gned Outflow	Q _{design=}	49.59
				_					
Duration	I	Pre-Dev.	Post-Dev.						
Tđ	1	Q	Q				Inflow	Outflow	Storage
min	iph	cfs	cfs				cf	cf	cf

cf	cf	cf
54,849	54,454	395
70,140	61,892	8,247
81,872	69,331	12,541
91,309	76,769	14,540
99,161	84,208	14,953
105,862	91,647	14,216
111,695	99,085	12,610
116,850	106,524	10,327
121,467	113,962	7,505
125,644	121,401	4,243
129,457	128,839	618
136,209	143,716	0
142,056	158,593	0
147,214	173,470	0
151,831	188,347	0
156,012	203,224	0
159,834	218,101	0
169,678	262,732	0
177,785	307,363	0
184,702	351,994	0
190,751	396,625	0

d Calculations

lopment	Drainage	Area	Post-Dev	velopment
Q	Area	ac	С	Q
69.26	A-1	26.12	0.53	79.28
69.26			Q ₁ =	79.28
	-	Bypass	Q _{bypass=}	1.79
	Allow	able Outflow	Q _{allow=}	67.46
	Desig	aned Outflow	Q _{design=}	67.46

Inflow	Outflow	Storage
cf	cf	cf
72,718	74,080	0
93,602	84,199	9,403
109,768	94,318	15,449
122,846	104,438	18,408
133,771	114,557	19,214
143,120	124,676	18,444
151,274	134,796	16,478
158,494	144,915	13,578
164,965	155,035	9,930
170,825	165,154	5,671
176,178	175,273	904
185,664	195,512	0
193,882	215,751	0
201,135	235,990	0
207,627	256,229	0
213,507	276,467	0
218,884	296,706	0
232,725	357,422	0
244,121	418,139	0
253,841	478,855	0
262,339	539,571	0

2yr Detention Pond Calculations									
2 yr	[Drainage	Area	Design I	Discharge	Drainage	Area	Develope	d Runoff
Atlas 14 Rainfal	l Intensity	Area	ac	С	Q	Area	ac	С	Q
I=b/(tc+d)^e		Α	26.52	0.37	27.28	A-1	26.12	0.43	31.83
b=	54.2839	Total Runo	ff from Site	Q ₁ =	27.28			Q1=	31.83
d=	11.4257		-			-	Bypass	Q _{by pass=}	0.75
e=	0.8119					Allow	able Outflow	Q _{allow-}	26.53
Designed Outfl				med Outflow	Q _{design=}	26.53			

2-YR DETENTION VOLUME CALCULATIONS

	1					
Duration	I	Pre-Dev.	Post-Dev.			
Td	_	Q	Q			
min	iph	cfs	cfs			
10	4.51	44.01	50.71			
15	3.80	37.12	42.77			
20	3.30	32.25	37.16			
25	2.93	28.61	32.96			
30	2.64	25.77	29.69			
35	2.41	23.49	27.07			
40	2.21	21.62	24.91			
45	2.05	20.05	23,10			
50	1.92	18,72	21.56			
55	1.80	17.56	20.24			
60	1.70	16.56	19.08			
70	1.53	14.89	17.15			
80	1.39	13.55	15.61			
90	1.28	12.46	14.35			
100	1.18	11.54	13.30			
110	1.10	10.76	12.40			
120	1.03	10.09	11.63			
150	0.88	8.54	9.84			
180	0.76	7.44	8.57			
210	0.68	6.61	7.61			
240	0.61	5.96	6.87			
	Storage Volur	ne Required=	8,389			
		WQV=	11,685			
	Total Storage Volume= 20 074					

Volume=	20,074 cf
=	743 cy

Inflow Outflow Storage cf cf cf 30,426 29,135 1,291 38,493 33,115 5,378 44,588 37,095 7,493 49,439 41,075 8,364 53,444 45,055 8,389 56,841 49,035 7,806 59,784 53,015 6,770
Inflow Outflow Storage cf cf cf 30,426 29,135 1,291 38,493 33,115 5,378 44,588 37,095 7,493 49,439 41,075 8,364 53,444 45,055 8,389 56,841 49,035 7,806 59,784 53,015 6,770
cfcfcf30,42629,1351,29138,49333,1155,37844,58837,0957,49349,43941,0758,36453,44445,0558,38956,84149,0357,80659,78453,0156,770
30,426 29,135 1,291 38,493 33,115 5,378 44,588 37,095 7,493 49,439 41,075 8,364 53,444 45,055 8,389 56,841 49,035 7,806 59,784 53,015 6,770
38,493 33,115 5,378 44,588 37,095 7,493 49,439 41,075 8,364 53,444 45,055 8,389 56,841 49,035 7,806 59,784 53,015 6,770
44,58837,0957,49349,43941,0758,36453,44445,0558,38956,84149,0357,80659,78453,0156,770
49,43941,0758,36453,44445,0558,38956,84149,0357,80659,78453,0156,770
53,444 45,055 8,389 56,841 49,035 7,806 59,784 53,015 6,770
56,841 49,035 7,806 59,784 53,015 6,770
59,784 53,015 6,770
62,377 56,995 5,382
64,691 60,975 3,716
66,780 64,955 1,825
68,682 68,934 0
72,042 76,894 0
74,943 84,854 0
77,497 92,814 0
79,779 100,774 0
81,842 108,734 0
83,726 116,694 0
88,567 140,573 0
92,545 164,453 0
95,932 188,332 0
98,890 212,212 0

UI		
29,135	1,291	
33,115	5,378	
37,095	7,493	
41,075	8,364	
45,055	8,389	
49,035	7,806	
53,015	6,770	
56,995	5,382	
60,975	3,716	
64,955	1,825	
68,934	0	
76,894	0	
84,854	0	
92,814	0	
100,774	0	
108,734	0	
116,694	0	
140,573	0	
164,453	0	
188,332	0	
212 212	0	

REMAINS CLOSED FOR 12 OF A RAIN EVENT TO OLUME (LONGER THAN THE ORMS). DETENTION GN STORMS ASSUME THE Q=0 CFS.

DETENTION POND DESIGN SUMMARY

Detention Pond Design Summary					
Design Storm	Required Storage	Allowable Discharge	Design Discharge	Design Storage	
Design Storm	CF	CFS	CFS	CF	
WQV	11,685	N/A	N/A	11,953	
2	20,074	26.53	26.53	22,724	
10	26,639	49.59	49.59	28,726	
25	30,899	67.46	67.46	32,828	
100	38,840	103.08	103.08	39,246	

SMARTPOND OUTLET CALCULATIONS

|--|

	Stage	Stor	age	Weir Dis	scharge	
	Elevation	Volume		Н	H Q	
	FT	Ъ	CY	FT	CFS	
	1,115.60	0	0.00	0.00	0	
	1,115.70	0	0.0	0.00	0	
	1,115.80	42	1.6	0.00	0	
	1,115.90	128	5	0.00	0	
	1,116.00	258	10	0.00	0	
	1,116.10	433	16	0.00	0	
	1,116.20	655	24	0.00	0	
	1,116.30	933	35	0.00	0	
	1,116.40	1,278	47	0.00	0	
	1,116.50	1,700	63	0.00	0	
	1,116.60	2,212	82	0.00	0	
	1,116.70	2,824	105	0.00	0	
	1,116.80	3,546	131	0.00	0	
	1,116.90	4,390	163	0.00	0	
	1,117.00	5,366	199	0.00	0	
	1,117.10	6,468	240	0.00	0	
	1,117.20	7,674	284	0.00	0	
	1,117.30	8,973	332	0.00	0	
	1,117.40	10,369	384	0.00	0	
WQV	1,117.50	11,953	443	0.00	0	
	1,117.60	13,495	500	0.10	1.809	
	1,117.70	15,223	564	0.20	5.116	
	1,117.80	17,030	938	0.30	9.399	
	1,117.90	18,897	700	0.40	14.47	
	1,118.00	20,802	770	0.50	20.22	
2-Yr	1,118.10	22,724	842	0.60	26.53	
	1,118.20	24,652	913	0.70	33.50	
	1,118.30	26,584	985	0.80	40.93	
40.14	1,118.40	28,519	1,056	0.90	48.84	
10-Yr	1,118.41	28,726	1,064	0.91	49.59	
	1,118.50	30,459	1,128	1.00	57.20	
	1,118.60	32,402	1,200	1.10	65.99	
25-Yr	1,118.62	32,828	1,216	1.12	67.46	
	1,118.70	34,349	1,272	1.20	75.19	
	1,118.80	36,300	1,853	1.30	84.78	
	1,118.90	38,254	1,417	1.40	94.75	
100-Yr	1,118.98	39,246	1,454	1.48	103.08	
	1,119.00	40,213	1,489	1.50	105.08	
	1,119.10	42,175	1,562	1.60	115.76	
	1,119.20	44,141	1,635	1.70	126.79	
ard	1,119.30	46,111	1,708	1.80	138.14	
põ	1,119.40	48,084	1,781	1.90	149.81	
ree	1,119.50	50,061	2,533	2.00	101./9	
ш 	1,119.60	51,278	1,899	2.10	1/4.U/ 100.05	
F	1,119.70	52,241	1,500	2.20	100.00	
	1 110 00	5/ 126	2005	2.30	21267	
	1,120.00	54,847	3.013	2.50	226.10	

	BATCH DETENTION POND OULET PIPE					
Minir	num orif	ice diameter	Check drawdown time (max 48 hrs)			
A=	Q/[C*SC	QRT(2gH)]	Q=C*A*SQRT(2gH)			
WQV =	11,953	cf	C=	0.6		
T =	48	hr, drawdown time	Design D =	6	in	
Q=	0.069	cfs	=	0.500	ft	
C=	0.6		A=	0.196	sf	
g =	32.2	ft/s^2	g =	32.2	ft/s^2	
WSEL=	1117.5	ft	WSEL =	1117.5	ft	
ELoc=	1114.58	ft, orifice center	ELoc =	1114.75	ft, orifice center	
Havg =	1.458	ft, average head	Havg =	1.38	ft, average head	
A =	0.0119	sf	WQV=	11,953	cf	
D =	0.123	ft	Q=	1.109	cfs	
=	1.48	in	T=	2.99	hr, drawdown time	
Design D	6	in				



<u>100-YR OUTLET CALCULATIONS</u>

Weir Report

Roctangular Woir

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Tuesday, Feb 14 2023

Liberty Hill Detention Pond Outlet

15

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—— W.S.

Liberty	Hill	Detention	Pond	Outle

Bottom Length (π) Total Depth (ft)
Calculations

Weir Coeff. Cw Compute by: Known Q (cfs)

Depth (ft)

3.00

2.00

1.00

0.00

-1.00 -

= 22.00 = 2.50 = 2.60 Known Q = 103.08

= Broad



= 1.48 = 103.08 = 32.59 = 3.16 = 22.00

Depth (ft)

3.00

2.00

1.00

0.00

-1.00

35

Length (ft)



Weir Report

Hydraflow Express Extension for Autodesk® 0

Liberty Hill Detention Po

Rectangular Weir Crest Bottom Length (ft) Total Depth (ft)	= Broad = 22.00 = 2.50
Calculations Weir Coeff. Cw Compute by:	= 2.60 Known (
Known Q (cfs)	= 49.59



25-YR OUTLET CALCULATIONS

20

25

30

Weir Report

—— Weir

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Tuesday, Feb 14 2023 Liberty Hill Detention Pond Outlet Rectangular Weir Highlighted Depth (ft) Q (cfs) Area (sqft) Crest = Broad = 1.12 = 22.00 = 2.50 Bottom Length (ft) Total Depth (ft) = 67.46 = 24.56 = 2.75 Velocity (ft/s) Top Width (ft) = 22.00 Calculations = 2.60 Weir Coeff. Cw Compute by: Known Q Known Q (cfs) = 67.46

Weir Report

Hydraflow Express Extension for	Tuesday, Feb 14 2023		
Liberty Hill Deten	tion Pond Outlet		
Rectangular Weir		Highlighted	
Crest	= Broad	Depth (ft)	= 0.60
Bottom Length (ft)	= 22.00	Q (cfs)	= 26.53
Total Depth (ft)	= 2.50	Area (sqft)	= 13.18
,		Velocity (ft/s)	= 2.01
Calculations		Top Width (ft)	= 22.00
Weir Coeff. Cw	= 2.60		
Compute by:	Known Q		
Known Q (cfs)	= 26.53		

Liberty Hill Detention Pond Outlet Depth (ft) Depth (ft) — 3.00 3.00 -2.00 -2.00 - 1.00 1.00 -- 0.00 0.00 -1.00 -- -1.00 15 20 25 5 10 30 35 ò Weir W.S. Length (ft)

Depth (ft) 3.00 — 2.00 -1.00 -0.00 --1.00 5 Ó

<u>10-YR OUTLET CALCULATIONS</u>

Civil 3D® by Autodesk, Inc.		Tuesday, Feb 14 2023
ond Outlet		
	Highlighted	
oad	Depth (ft)	= 0.91
.00	Q (cfs)	= 49.59
50	Area (sqft)	= 20.00
	Velocity (ft/s)	= 2.48
	Top Width (ft)	= 22.00
~~	, , ,	

nown Q = 49.59

<u>100-YR CHANNEL</u>

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Liberty Hill Storage Channel

Trapezoidal	
Bottom Width (ft)	= 22.00
Side Slopes (z:1)	= 3.00, 3.00
Total Depth (ft)	= 2.00
Invert Elev (ft)	= 1115.00
Slope (%)	= 0.50
N-Value	= 0.060
Calculations	
Compute by:	Known Q
Known Q (cfs)	= 103.08

Known Q (cfs)

Elev (ft) Section 1118.00 1117.50 1117.00 1116.50 1116.00 1115.50 1115.00 1114.50 20 25 10 15 0 5

Reach (ft)

MIN. CHANNEL FREEBOARD = VELOCITY HEAD = $\sqrt{2}/2g = 0.076'$

2-YR OUTLET CALCULATIONS



Tuesday, Feb 14 2023

Highlighted		
Depth (ft)	=	1.72
Q (cfs)	=	103.08
Area (sqft)	=	46.72
Velocity (ft/s)	=	2.21
Wetted Perim (ft)	=	32.88
Crit Depth, Yc (ft)	=	0.85
Top Width (ft)	=	32.32
EGL (ft)	=	1.80











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Attachment N – Inspection, Maintenance, Repair and Retrofit Plan

Batch Detention Pond

Regular maintenance of a batch detention pond is crucial to its functionality. The pond must be inspected regularly for sediment and debris accumulation, erosion, and vegetation overgrowth and corrective actions should be taken to restore the pond's functionality. Maintenance and inspection records should be kept on file by the owner of the permanent BMPs for at least 3 years. Repair and retrofit records should be kept for at least 5 years.

Inspections

Basins should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. When possible, inspections should be conducted during wet weather to determine if the pond is meeting the target detention times. In particular, the extended detention control device should be regularly inspected for evidence of clogging, or conversely, for too rapid a release. If the design drawdown times are exceeded by more than 24 hours, then repairs should be scheduled immediately. During each inspection, erosion areas inside and downstream of the BMP should be identified and repaired or revegetated immediately.

Mowing

The upper stage, side slopes, embankment, and emergency spillway of an extended detention basin must be mowed regularly to discourage woody growth and control weeds. Grass areas in and around basins should be mowed at least twice annually to limit vegetation height to 18 inches. A mulching mower should be used, or grass clippings should be caught and removed.

Debris and Litter Removal

Debris and litter will accumulate near the extended detention control device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.

Erosion Control

The pond side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion, although this should not occur often if the soils are properly compacted during construction. Regrading and revegetation may be required to correct the problems.

Structural Repairs and Replacement

With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. These repairs should include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints.

The various inlet/outlet and riser works in a basin will eventually deteriorate and must be replaced. Public works experts have estimated that corrugated metal pipe (CMP) has a useful life of about 25 years, whereas reinforced concrete barrels and risers may last from 50 to 75 years.

Nuisance Control

Standing water in the basin can create nuisance conditions for nearby residents. Odors, mosquitoes, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance are not being performed (e.g., mowing, debris removal, clearing the outlet control device).

Sediment Removal

When properly designed, batch detention basins will accumulate quantities of sediment over time. Accumulated sediment must be removed when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor, or at least every 5 years.

Logic Controller

Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Owner Responsibility

The current owner and each subsequent owner shall be responsible for the operation and maintenance of the proposed stormwater quality BMPs in accordance with this Inspection, Maintenance, Repair and Retrofit Plan. Each owner of this property is responsible for providing the subsequent owner with a copy of this Plan. An amended copy of this document shall be provided to TCEQ within 30 days of any changes to the following information:

Owner Copy NEEF
Mailing Address 725 Hwy 287 N.
SUITE 503 MANSFIELD, TX 76063
Phone 817-788-0763
Signature Date DateDATE

Baird, Hampton & Brown, Inc. | TBPE Firm #44 | Fort Worth, TX | Tel. (817) 338-1277 | bhbinc.com

A-Affordable Boat & RV Storage Contributing Zone Plan June 2023

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

Attachment O – Pilot-Scale Field Testing Plan (if BMPs not based on complying with the Edwards Aquifer Rules: Technical Guidance for BMPs)

NOT APPLICABLE

Baird, Hampton & Brown, Inc. | TBPE Firm #44 | Fort Worth, TX | Tel. (817) 338-1277 | bhbinc.com

Attachment P – Measures for Minimizing Surface Stream Contamination

NOT APPLICABLE

There are no streams, ponds, or other bodies of water located on this property. Stormwater runoff flows approximately half a mile from the property line before discharging to a pond, which then discharges approximately 700 feet from the pond outfall to stream segment 1250 of the South Fork of the San Gabriel River. Runoff from the site will be controlled by a batch detention pond, so no adverse effects to stormwater runoff volume or quality are expected.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SEE ATTACHED

A-Affordable Boat & RV Storage Contributing Zone Plan June 2023

COPY OF NOTICE OF INTENT (NOI)

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 21, 2023

Dear Applicant:

Re: TPDES General Permit for Construction Stormwater Runoff (TXR150000) Notice of Intent Authorization

Your Notice of Intent (NOI) application for authorization under the general permit for discharge of stormwater associated with construction activities has been received. Pursuant to authorization from the Executive Director of the Texas Commission on Environmental Quality, the Division Deputy Director of the Water Quality Division has issued the enclosed Certificate.

Please refer to the attached certificate for the authorization number that was assigned to your project/site and the effective date. Please use this number to reference this project/site for future communications with the Texas Commission on Environmental Quality (TCEQ).

Authorization under the Edwards Aquifer Protection Program is required before construction can begin where the site is located within the Edwards Aquifer Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone. See https://www.tceq.texas.gov/permitting/eapp/viewer.html for additional information.

It is the responsibility of the Operator to notify the TCEQ Stormwater Processing Center of any change in address supplied on the original Notice of Intent by submitting a Notice of Change.

A Notice of Termination must be submitted when permit coverage is no longer needed.

For questions related to processing of your application you may contact the Stormwater Processing Center by email at <u>SWPERMIT@tceq.texas.gov</u> or by telephone at (512) 239-3700. If you have any technical questions regarding the general permit, you may contact the stormwater technical staff by email at <u>SWGP@tceq.texas.gov</u> or by telephone at (512) 239-4671. Also, you may obtain information on the stormwater web site at <u>https://www.tceq.texas.gov/permitting/stormwater</u>.

Sincerely,

Robert Sadlier, Deputy Director Water Quality Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY Texas Pollutant Discharge Elimination System Stormwater Construction General Permit

The Notice of Intent (NOI) for the facility listed below was received on June 21, 2023. The intent to discharge stormwater associated with construction activity under the terms and conditions imposed by the Texas Pollutant Discharge Elimination System (TPDES) stormwater Construction General Permit (CGP) TXR150000 is acknowledged. Your facility's unique TPDES CGP stormwater authorization number is:

TXR1599NH

Coverage Effective: June 21, 2023

The TCEQ's stormwater CGP requires certain stormwater pollution prevention and control measures, possible monitoring and reporting, and periodic inspections. Among the conditions and requirements of this permit, you must have prepared and implemented a stormwater pollution prevention plan (SWP3) that is tailored to your construction site. As a facility authorized to discharge under the stormwater CGP, all terms and conditions must be complied with to maintain coverage and avoid possible penalties.

Project/Site Information: RN111760724 A-Affordable Storage 19790 Tx-29 Liberty Hill, TX 78642 Williamson County

Operator:

CN606153179 A-Affordable Boat & Rv Storage - Liberty Hill, LLC 725 Highway 287 N Ste 503 Mansfield, TX 76063

This CGP and all authorizations expire on March 5, 2028, unless otherwise amended. If you have any questions related to processing of your application, you may contact the Stormwater Processing Center by email at SWPERMIT@tceq.texas.gov or by telephone at (512) 239-3700. For technical issues, you may contact the stormwater technical staff by email at SWGP@tceq.texas.gov or by telephone at (512) 239-4671. Also, you may obtain information on the TCEQ web site at https://www.tceq.texas.gov/goto/wq-dpa. A copy of this document should be kept with your SWP3.

Kkel

FOR THE COMMISSION

Issued Date: June 21, 2023

A-Affordable Boat & RV Storage Contributing Zone Plan June 2023

AGENT AUTHORIZATION FORM (TCEQ-0599)

(if application submitted by agent)

Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999
I Cody_NEEF, Print Name,
, Title - Owner/President/Other
of <u>A-AFFORDABLE BOAT & PN STORAGE - LIBERTY HILL L</u> C Corporation/Partnership/Entity Name
have authorized <u>CHAD</u> WALLACE Print Name of Agent/Engineer
of BAIRD, HAMPTON, & BROWN ENGINEERING Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
- 5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature THE STATE OF fan s arran County of

1-13-2023 Date

BEFORE ME, the undersigned authority, on this day personally appeared <u>Colly</u> Negto me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this <u>/ 31</u> day of <u>July</u>, <u>2023</u>

NOTARY

Typed or Printed Name of Notary

MY COMMISSION EXPIRES:

9/3/26

Page 2 of 2

A-Affordable Boat & RV Storage Contributing Zone Plan June 2023

APPLICATION FEE FORM (TCEQ-0574)

Baird, Hampton & Brown, Inc. | TBPE Firm #44 | Fort Worth, TX | Tel. (817) 338-1277 | bhbinc.com

Application Fee Form

Texas Commission on Environmen	ital Quality		
Name of Proposed Regulated Entit	y: <u>A-Affo</u> rdable Boat & F	RV Storage - Liberty Hill,	LLC
Regulated Entity Location: <u>19790</u> W	/est SH 29, Liberty Hill, 1	FX 78642	
Name of Customer: <u>A-Affo</u> rdable Bo	oat & RV Storage - Liber	ty Hill, LLC	
Contact Person: <u>Chad Wallace</u>	Phor	ne: <u>817-33</u> 8-1277	
Customer Reference Number (if iss	sued):CN		
Regulated Entity Reference Number	er (if issued):RN		
Austin Regional Office (3373)			
Hays	Travis	XW	illiamson
San Antonio Regional Office (3362	2)		
			aldo
			alue
			–
Application fees must be paid by cl	neck, certified check, o	or money order, payab	le to the Texas
Commission on Environmental Qu	ality. Your canceled of	check will serve as you	r receipt. This
form must be submitted with you	r fee payment . This p	ayment is being submi	itted to:
Austin Regional Office	S	an Antonio Regional O	office
X Mailed to: TCEQ - Cashier	C	Vernight Delivery to: 1	CEQ - Cashier
Revenues Section	1	2100 Park 35 Circle	
Mail Code 214	В	Building A, 3rd Floor	
P.O. Box 13088	Ą	ustin, TX 78753	
Austin, TX 78711-3088	(!	512)239-0357	
Site Location (Check All That Apply	y):		
Recharge Zone	X Contributing Zone	Transi	tion Zone
Type of Plan		Size	Fee Due
Water Pollution Abatement Plan, C	Contributing Zone		
Plan: One Single Family Residential	Dwelling	Acres	\$
Water Pollution Abatement Plan, C	Contributing Zone		
Plan: Multiple Single Family Reside	ntial and Parks	Acres	\$
Water Pollution Abatement Plan, C	Contributing Zone		
Plan: Non-residential		19.991 Acres	\$6,500
Sewage Collection System		L.F.	\$
Lift Stations without sewer lines		Acres	\$
Underground or Aboveground Stor	age Tank Facility	Tanks	\$
Piping System(s)(only)		Each	\$
Exception		Each	\$
Extension of Time		Each	\$
(1) hta	te-	6/27/2022	

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	Project Area in Acres	Fee
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional,	< 1	\$3,000
multi-family residential, schools, and other sites	1 < 5	\$4,000
where regulated activities will occur)	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

Project	Cost per Linear Foot	Minimum Fee- Maximum Fee
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	Cost per Tank or Piping System	Minimum Fee- Maximum Fee
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

A-Affordable Boat & RV Storage Contributing Zone Plan June 2023

CORE DATA FORM (TCEQ-10400)

Baird, Hampton & Brown, Inc. | TBPE Firm #44 | Fort Worth, TX | Tel. (817) 338-1277 | bhbinc.com

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (<i>If other is checked ple</i> New Permit, Registration or Authorization (<i>Co</i>	ease describe in space provid re Data Form should be subr	led.) nitted with the program application.)
Renewal (Core Data Form should be submitte	ed with the renewal form)	Other
2. Customer Reference Number (if issued)	Follow this link to search	3. Regulated Entity Reference Number (if issued)
CN	for CN or RN numbers in Central Registry**	RN

SECTION II: Customer Information

omer In	formation	5. Effective D	ate for Cu	stome	r Informatio	on U	pdate	s (mm/dd/yyyy)	6/26/2	2023
er		🗌 Up	date to Cu	stomer	Information	n		Change in	Regulated B	Entity Ownership
gal Narr	ne (Verifiable wit	h the Texas Sec	retary of S	tate or	Texas Com	ptrol	ller of l	Public Accounts)		
er Nam	e submitted	here may be	updated	auto	matically	/bas	sed o	on what is cu	rrent and	active with the
ary of	State (SOS)	or Texas Cor	nptroller	r of Pl	ublic Acc	oun	nts (C	:PA).		
gal Nam	ie (If an individua	l, print last name fi	rst: eg: Doe	, John)		<u>lf ne</u>	w Cus	tomer, enter prev	ious Custom	er below:
e Boat	& RV Stor	age - Liberty	/ Hill - L	LC						
Filing N	lumber	8. TX State Ta	ax ID (11 digi	its)		9. Fe	ederal	Tax ID (9 digits)	10. DUN	S Number (if applicable)
						88-	1957	/240		
tomer:	Corporati	on		Individ	lual		Part	nership: 🗖 Gener	ral 🔲 Limited	
City 🗖 C	ounty 🗌 Federal 🗌	State 🗌 Other		Sole P	Proprietorshi	ip		Other:		
mploye	es	251-500	□ 501 a	nd high	lor	13. I	ndepe	endently Owned	l and Opera	ted?
ala /Pro				Entity	isted on this	form	Diago		following	
		- as it relates to the				ionn.	Flease	e check one of the	TOTIOWING	
lioonco		or ncible Party		wner &	Operator	Annlie	oont			
LICENSE		TISIDIE Failty		oluntai	y Cleanup A	Applic	Cant			
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ity	Mansfield		State	TX	ZIP	7	7606	3	ZIP + 4	
ling Info	ormation (if outsi	de USA)			17. E-Mai	il Ado	dress	(if applicable)		
					jcneef@	Dacs	s-cgł	o.com		
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0763								()		
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Effective Date for Customer Information Updates (mm/dd/yyyy) er Update to Customer Information Change in gal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) or Name submitted here may be updated automatically based on what is curary of State (SOS) or Texas Comptroller of Public Accounts (CPA). gal Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter prev. e Boat & RV Storage - Liberty Hill - LLC 9. Federal Tax ID (e digits) Filing Number 8. TX State Tax ID (t1 digits) 9. Federal Tax ID (e digits) Romer: Corporation Individual Partnership: Gener City County Federal State Other No Poperator Sole Proprietorship Other: Independently Owned Yes No obe (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check one of the Operator Icensee Responsible Party Voluntary Cleanup Applicant Other: 25 Hwy 287 N Suite 503 17. E-Mail Address (if applicable) jcneef@acs-cgb.com umber 19. Extension or Code 20. Fax Number () 0763 19. Extension or Code ())	omer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy) 6/26/2 er Update to Customer Information Change in Regulated E gal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) r r Name submitted here may be updated automatically based on what is current and ary of State (SOS) or Texas Comptroller of Public Accounts (CPA). gal Name (If an individual, print last name first: eg: Doe, John) gal Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer ga Name (If an individual, print last name first: eg: Doe, John) 9. Federal Tax ID (e digits) a total customer 8. TX State Tax ID (e digits) 10. DUNS <

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*) New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

A-Affordable Boat & RV Storage - Liberty Hill

23. Street Address of	19790	TX-29						
the Regulated Entity: (No PO Boxes)	City	Liberty Hi	ll State	TX	ZIP	78642	ZIP + 4	
24. County	William	nson	8			1977, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 1992, 199		
		Enter Physical Lo	ocation Descrip	tion if no str	eet addres	s is provided.		
25. Description to Physical Location:								
26. Nearest City						State	Nea	arest ZIP Code
27 Latitude (N) la David		1		20.1				
ZI. Latitude (N) in Deci	Minutes		Seconds	Zo. L	ongitude	Winutes		Seconds
Digitico	Windlos		0000103	Degree		Windles		0000103
29. Primary SIC Code (4	digits) 30	. Secondary SIC	Code (4 digits)	31. Primar (5 or 6 digits	y NAICS (Code 32. Se (5 or 6	econdary NA digits)	ICS Code
4226				236220				
33. What is the Primary	Business of	of this entity? (Do not repeat the SI	C or NAICS desc	cription.)			
Boat and RV Stora	age							
				725 Hwy 2	287 N Suit	e 503		
34. Mailing								
Address:	Address: City		State	ТХ	ZIP	76063	ZIP + 4	
35. E-Mail Address	:			jneet	f@acs-cgl	o.com		D
36. Teleph	one Numbe	r	37. Extensi	on or Code		38. Fax Nu	mber <i>(if appl</i>	icable)
(817)	788-763					() -	
. TCEQ Programs and I	O Numbers	Check all Programs	and write in the pe	ermits/registrat	ion number	s that will be affected	by the updates	submitted on this
Dam Safety		ts	ce.	uifer	C Emiss	ions Inventory Air		l Hazardous Was
Municipal Solid Waste	New S	ource Review Air	OSSF		Petrol	eum Storage Tank	D PWS	
Sludge	Storm	Water	Title V Air		Tires		Used Oi	1
Voluntary Cleanup	Waste	Water	Wastewater	Aariculture	□ Water	Rights	Other:	
	0							
ECTION IV: Pre	narer I	nformation						
0. lame: Cody Neef	put et 1			41. Title:	Vice	President		
2. Telephone Number	43. Ext./Co	de 44. Fax	Number	45. E-Ma	ail Addres	S		
817)788-0763		()	540	jcneef	@acs-cg	gb.com		
ECTION V: Aut	horized	Signature						
. By my signature below.	I certify, to	the best of my kn	owledge, that th	e information	provided	in this form is true a	and complete	and that I have
nature authority to submi	t this form o	n behalf of the en	tity specified in S	Section II, Fie	eld 6 and/o	r as required for the	e updates to th	e ID numbers

A-Affordbale Storage	Job Title:	Vice President	
Cody Neef	/	Phone:	(817) 788- 0763
telle	×	Date:	6.26.2023
	A-Affordbale Storage Cody Neef	A-Affordbale Storage Job Title:	A-Affordbale Storage Job Title: Vice President Cody Neef Phone: Date: