ATTACHMENT 11 REVEGETATION PLAN



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ATTACHMENT 12 ENVIRONMENTAL CONSTRAINTS MAP



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ATTACHMENT 13 ENVIRONMENTAL RESOURCES INVENTORY WAIVER



T.B.P.E. Firm Registration No. F-3181 T.B.P.G. Firm Registration No. 50030A

January 9, 2023

Watershed Protection Department 505 Barton Springs Road Austin, Texas 78704

Sent via email to Andrew.Clamann@austintexas.gov

Attention: Mr. Andrew Clamann

Reference: Addendum – Environmental Resources Inventory Waiver Rehabilitation for Old Lampasas #3 Dam on Tributary to Bull Creek Austin, Texas Baer Engineering Document No. 112009-8b.020

Dear Mr. Clamann:

Baer Engineering and Environmental Consulting, Inc. is assisting Freese and Nichols, Inc. (FNI) with the Environmental Resources Inventory (ERI) Waiver process for the above-referenced City of Austin (COA) project.

INTRODUCTION

We previously prepared an ERI Waiver Request in June 2019, which was accepted during COA review of the project.

The Old Lampasas #3 Dam (Dam) is located approximately 0.25 miles west of the intersection of Old Lampasas Trail and Spicewood Springs Road. The Dam is situated on Tributary 4A to Bull Creek. Several critical environmental features (CEFs), the 100-year floodplain of Bull Creek, a critical water quality zone (CWQZ), and a water quality transition zone (WQTZ) have been identified in the area. These features are previously discussed in the ERI Waiver Request.

UPDATED PROJECT AREA

An additional area has been added to the project to be used for temporary construction staging. This area is on the property of Grace Church of the Nazarene (known as Central City Austin) at 9023 Old Lampasas Trail, Austin, TX 78750 (Figure 1). It is located south of, and on the opposite side of, Old Lampasas Trail from the Dam.

The new staging area avoids the CWQZ of Tributary 4A, the 100-year floodplain of Bull Creek, and the identified CEFs. The area is almost entirely within the WQTZ of Tributary 4A and overlaps with the 150-foot buffer areas around wetland *W-1* (brg_ID 206533) and seep *S-2* (brg_ID 203532).

The staging area will be temporarily disturbed by construction activity. Existing trees will be avoided and protected. No excavation or other significant ground disturbance will take place. Disturbances will be limited to those associated vehicle traffic and material storage. Tributary 4A will be protected

Baer Engineering and Environmental Consulting, Inc. 7756 Northcross Drive, Suite 211 Austin, Texas, U.S.A. 78757 Telephone: (512) 453-3733 #www.BaerEng.com #Fax: (512) 453-3316 from runoff using previously-described erosion and sedimentation controls and will be revegetated with native seeding in accordance with COA Standard Specifications 604S.

We request this information to be included and reviewed with the ERI Waiver for the project.

If you have questions about this addendum, please email me at *cwarkoczewski@baereng.com* or call me at our office at 512.453.3733.

Respectfully submitted, Baer Engineering and Environmental Consulting, Inc.

Christen Warkoczewski, Wildlife Biologist

Attachments: Figure 1 – Church Site TCE

The ERI waiver addendum requested for the above referenced project has been: \Box Denied Approved

Comments:

All CEFs on/adjacent to additional staging area known. Restoration/mitigation will be required in accompanying site plan review.

in Anan

ERM Reviewer (Print Name) Eric Brown 2/17/2023

LEGEND:

CEF (CRITICAL ENVIRONMENTAL FEATURE) 50' SETBACK

CEF (CRITICAL ENVIRONMENTAL FEATURE) 150' SETBACK

PROPOSED ULTIMATE FLOODPLAIN 50' SETBACK

PROPOSED ULTIMATE FLOODPLAIN 150' SETBACK

CWQZ (CRITICAL WATER QUALITY ZONE)

WQTZ (WATER QUALITY TRANSITION ZONE)

CREEK CENTERLINE

LIMITS OF CONSTRUCTION/CHAIN LINK FENCE

LIMITS OF CONSTRUCTION

PROPERTY LINE



_____ · · ____ · · ____

-LOC/CLF ------



100-YR PROPOSED CONDITION ULTIMATE LAND USE FLOODPALIN

TEMPORARY CONSTRUCTION EASEMENT



BIDDING OR PERMIT PURPOSES.

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March 14, 2019

Watershed Protection Department 505 Barton Springs Road Austin, Texas 78704

Sent via email to Andrew.Clamann@austintexas.gov

Attention: Mr. Andrew Clamann

Reference: Environmental Resources Inventory Waiver Request Rehabilitation for Old Lampasas #3 Dam on Tributary to Bull Creek Austin, Texas Baer Engineering Document No. 112009-8b.021

Dear Mr. Clamann:

Baer Engineering and Environmental Consulting, Inc. is assisting Freese and Nichols, Inc. (FNI) with the Environmental Resources Inventory (ERI) waiver process for the above-referenced City of Austin (COA) project. The Old Lampasas #3 Dam (Site) will be rehabilitated to meet COA and Texas Commission on Environmental Quality (TCEQ) dam safety regulations and improve water quality. The Dam is located approximately 0.25 miles west of the intersection of Old Lampasas Trail and Spicewood Springs Road. The Dam is situated on a tributary to Bull Creek outside the COA-defined Edwards Aquifer Recharge Zone but within the 1,500-foot verification zone.

Existing Dam Conditions and Proposed Improvements

The Dam was built in the early-1980s using construction spoils from the neighborhood development, including boulders and fill material. Trees now cover the dam and there are large voids where the soil has eroded between the fill and boulders. The Dam has been damaged by past floods and is a safety hazard.

Baer Engineering conducted field surveys for this site on July 15, 2011, and October 26, 2018. Conditions at the site (as of the most recent field survey) are as follows:

-) The unnamed tributary to Bull Creek was flowing both upstream and downstream of the Dam, forming an approximately 12-foot wide pool upstream of the Dam. The upstream creekbed comprised alluvial soil transitioning to cobble and sand closer to the Dam. Bedrock was exposed downstream of the Dam.
-) The Dam was heavily vegetated in areas where soil was retained but much of the Dam slope was exposed limestone boulders with obvious voids.
-) The concrete inlet headwall is distantly separated from the Dam and the principal spillway CMP culvert appeared completely collapsed;
-) Water was flowing through the Dam structure in several areas, comprising the majority of downstream flow;
- Five Critical Environmental Features (CEF) were observed within 150 feet of the proposed Limits of Construction one spring, one seep, two rimrocks, and one wetland. The CEFs are outside the proposed Limits of Construction and no direct impacts to the CEFs are being planned. The CEFs are show on Figure 4.

Freese and Nichols is designing a plan for Dam Rehabilitation. The proposed work includes but may not be limited to:

- Regrading of Dam slopes to three-to-one earthen slope;
- Replacement of 60-inch corrugated metal spillway pipe with 42-inch reinforced concrete pipe;
- Replacement of existing intake headwall with detention riser pipe and low flow port;
- Removal of woody vegetation on the Dam; and
-) Maintaining the geometry of the plunge pool at the culvert outfall and armoring it with boulders.

As per the 60% Erosion and Sedimentation Control Plan and the Tree Protection Plan, tree protection, mulch socks, and severe service rock berms will be installed during construction to minimize erosion and sedimentation. The Care of Water Plan shows that a cofferdam will be installed to route storm events up to a 2-year storm around the site to reduce the potential for construction spoils downstream. The Revegetation Plan shows that, at the completion of the project, the site will be restored with native seeding per COA Standard Specifications 604S Table 4 and sodding with buffalo grass and blue grama on the dam embankment.

Previous Coordination with COA Watershed Protection

In 2011, you and Sylvia Pope conducted a field visit to the Dam site. After your site visit, you suggested that a "waiver to the requirement for an Environmental Assessment can be provided as per LDC 25-8-121 and ECM 1.3.0(A)(7)." A printed copy of that correspondence is attached.

Justifications for Supporting the ERI Waiver Request

An ERI Waiver Request Form and figures are included as an attachment to this letter. We believe that the project qualifies for an ERI waiver based on the following:

- The Site has no significant undisturbed natural areas;
- The project is not expected to directly impact the observed CEFs;
- Tree Protection and Erosion and Sedimentation Control Plans will be implemented; and
- Previous assessment in 2011 by you and Sylvia Pope concluded that the requirement for an ERI (previously referred to as an Environmental Assessment [EA]) could be waived.

If you have questions about this request or require additional information, please call me at 512.453.3733.

Respectfully submitted, Baer Engineering and Environmental Consulting, Inc.

Jennifer Lueckemeyer, CPESC Senior Project Manager

Attachment: ERI Waiver Form and Maps COA Correspondence – EA Waiver

Environmental Resource Inventory Waiver Request Form

For the City of Austin Related to LDC 25-8-121(D) or City Code 30-5-121(D)

GENERAL SITE INFORMATION:

- 1. SITE/PROJECT NAME: Old Lampasas #3 Dam Modernization
- 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 164673, 164674
- 3. ADDRESS/LOCATION OF PROJECT: 9022 Old Lampasas Trail, Austin, TX 78750

4. WATERSHED: Bull Creek

5. THIS SITE IS WITHIN THE (Check all that apply)

Edwards Aquifer Recharge Zone* (See note below)	□ YES	🛛 No
Edwards Aquifer Contributing Zone*	□ YES	🛛 No
Barton Spring Zone*	□ YES	🛛 No
*(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)		

6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?....... X YES** NO IF YES, THEN DO ANY OF THE FOLLOWING CONDITIONS APPLY? (check all that apply):

 \boxtimes (1) The floodplain modifications proposed are necessary to protect the public health and safety;

(2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or

(3) The floodplain modifications proposed are necessary for development allowed in the critical water quality zone under LDC 25-8-261or 25-8-262, City Code 30-5-261 or 30-5-262.

(4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

** If yes, then a Functional Assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X In the Environmental Criteria Manual for forms and guidance) unless conditions 1 or 3 above apply.

***If yes, then riparian restoration is required by LDC 25-8-261(E) and a Functional Assessment must be completed and attached to the ERI (see ECM 1.5 and Appendix X in the Environmental Criteria Manual for forms and guidance).

REQUIRED INFORMATION FOR WAIVER REQUEST:

Pursuant to LDC 25-8-121(D) or City Code 30-5-121(D), the Director of the Watershed Protection Department (WPD) may permit an applicant to exclude information that is required in ERI report if the Director determines that the information is unnecessary because of the scope or nature of the proposed development. Please provide the requested information below to WPD for review. <u>Please be advised. If granted. this waiver may be rescinded in the future. If new information is discovered during the review process that requires that an ERI be completed for this site.</u>

1. X A **NARRATIVE DESCRIPTION** of current site conditions and justifications to support the granting of the waiver request are attached at the end of this form.

2. .X _____ The following **MAPS** of the site are attached:

(Map Information available at http://www.austintex.as.gov/GIS/DevelopmentWebMap/Viewer.aspx)

- Site Location Map
- Historic Aerial Photo at least 15 years old
- Current Aerial Photo
- Topographic Map with a 2 feet contour interval

To the best of my knowledge, the responses to this form accurately and thoroughly reflect all information requested.

nnifer Lueckemeyer	512.453.3733
Print Name	Telephone
grifs Juerkongen	JLueckemeyer@baereng.com
Signature	Email Address
er Engineering and Environmental Consulting, Inc	7/26/2019
Name of Company	Date
WATERSHED PROTECTION DEPARTMENT USI	E ONLY.
The waiver requested from LDC 25-8-121(D) of City project has been:	Code 30-5-121(D) for the above reference
Denied Approved Rescinded App	proved with TCEQ Geologic Assessment
 Formal and/or administrative variances are Critical Environmental Features are present The information provided is incomplete (see Denied, but the following sections can be or Other Comments: 	required for this proposed development. on or within 150 feet of site boundaries. comments below). mitted (see comments below).
Reasoning for Approval (This form must be included with Engineer's Report and/or Summary):	h submittal materials and referenced in your
 No Critical Environmental Features are prese The site has existing impervious cover and no 	nt on or within 150 feet of the site boundaries. o significant undisturbed natural areas.
No floodplains, slopes >15%, CWQZs, WQTZ contributing zone are present on site and TCE and will be submitted (Only for sites within the Edward)	Zs, wetlands, and the Edwards Aquifer Q Geologic Assessment has been completed hards Aquifer).
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- 9/17/19 -	Scolt E. Hiers

If you have questions on how to fill out this form, please contact the Watershed Protection Department at 512/974-2550.



Base Map: World Topographic Map



Proposed Limits of Construction

Assessment Area (150-ft)

Baer Project No. 112009.02 Date: March 14, 2019

TBPE Firm No. F-3181 TBPG Firm No. 50030

Base Map: Jollyville SE Quarter Quad

Figure 2 1996 Historic Aerial Photograph

Old Lampasas #3 Dam Rehabilitation for Dam on Tributary to Bull Creek



Baer Engineering

and Environmental Consulting, Inc.



Proposed Limits of Construction

Assessment Area (150-ft)



Baer Project No. 112009.02 Date: March 14, 2019

TBPE Firm No. F-3181 TBPG Firm No. 50030 Base Map: NAIP Aerial Imagery, 2016

Figure 3 Current Aerial Photograph

Old Lampasas #3 Dam Rehabilitation for Dam on Tributary to Bull Creek





- Baer-identified Seep CEF
- Baer-identified Spring CEF
- COA Elevation Contour (2-ft)
 - Baer-Identified Wetland CEF
 - Baer-identified Rimrock CEF

COA Edwards Aquifer Recharge Zone

FEMA 100-year Floodplain

Proposed Limits of Construction

300

Assessment Area (150-ft)

Fee

150

Baer Project No. 112009.02

Date: March 14, 2019

TBPE Firm No. F-3181 TBPG Firm No. 50030

Base Map: World Topographic Map

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Figure 4 Topographic Map with 2-ft Contours and CEFs

Old Lampasas #3 Dam Rehabilitation for Dam on Tributary to Bull Creek





Jennifer Lueckemeyer <jlueckemeyer@baereng.com>

Old Lampasas Dam - ERI waiver

Kimberly Patak <KKP@freese.com> To: Jennifer Lueckemeyer <jlueckemeyer@baereng.com> Cc: Will Huff <Will.Huff@freese.com> Mon, Oct 15, 2018 at 1:44 PM

Jennifer –

Attached is correspondence from the City re: the ERIR waiver that they anticipated providing for the project back when it was called an Environmental Assessment. Hopefully this will help our case. - K

Kimberly K Patak, P.E., CFM, ENV SP

Associate - Water Resources Design

Freese and Nichols, Inc.

10431 Morado Circle, Bldg. 5, Ste. 300

Austin, TX 78759

512-617-3100 office

512-617-3138 direct

512-917-4069 mobile

www.freese.com



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------ Forwarded message ------From: "Acosta, Eduardo" <Eduardo.Acosta@ci.austin.tx.us> To: Kimberly Patak <KKP@freese.com> Cc: "Henry, Andrea" <Andrea.Henry@ci.austin.tx.us> Bcc: Date: Mon, 14 Feb 2011 16:58:34 +0000 Subject: environmental assessment waiver for Old Lampasas #3 (park at spicewood)

Please see the environmental assessment waiver below. Also, Sylvia located the rimrock CEF and has generated a GIS shapefile. I am in the process of having it copied to our server and can share with FNI once obtained.

From: Clamann, Andrew
Sent: Monday, February 14, 2011 8:39 AM
To: Pope, Sylvia; Acosta, Eduardo
Cc: Henry, Andrea
Subject: RE: park at spicewood ERM comments

Yes, I'll save Sylvia some time and provide the formal waiver now:

Based on the observations of a site visit by both Sylvia Pope and Andrew Clamann, and based on proposed project information provided during the site visit, a waiver to the requirement for an Environmental Assessment can be provided as per LDC 25-8-121 and ECM1.3.0(A)(7). Although the waiver for the Environmental Assessment is being provided, recommendations/requirements may still be provided by both the ERM Hydrogeologist and Wetland Biologist during review. FYI, although no wetland CEFs were observed, rimrock CEFs were identified in the Zone of Influence. Rimrock CEFs and CEF setbacks should be shown on site plans, labeled "Rimrock Critical Environmental Feature" and "Critical Environmental Feature Setback".

To avoid confusion during completeness check, please print a hard copy of this correspondence as documentation of the approved waiver for an EA, and included it in the application packet. If there is a cover letter or engineer's summary, please refer to the waiver within. Sylvia Pope and Andrew Clamann should be included in review process.

Thanks,

Andrew Clamann

Environmental Scientist

City of Austin, Watershed Protection

(512) 974-2694

andrew.clamann@ci.austin.tx.us

From: Pope, Sylvia
Sent: Sunday, February 13, 2011 4:59 PM
To: Acosta, Eduardo
Cc: Henry, Andrea; Clamann, Andrew; Pope, Sylvia
Subject: RE: park at spicewood ERM comments

I believe that it does. Once Andrew Clamann confirms that it does, I can send you a more formal waiver.

What say you, Andrew?

Sylvia R. Pope, P.G.

Hydrogeologist

City of Austin

Watershed Protection Department

Environmental Resources Management Division

Water Resources Evaluation Section

512-974-3429 Phone

512-802-7366 Pager

512-974-2846 Fax

From: Acosta, Eduardo
Sent: Friday, February 11, 2011 4:32 PM
To: Pope, Sylvia
Cc: Henry, Andrea
Subject: RE: park at spicewood ERM comments

Sylvia, Based on your review of site, does this site qualify for an environmental assessment waiver?

From: Pope, Sylvia
Sent: Thursday, January 06, 2011 4:50 PM
To: Acosta, Eduardo
Cc: Pope, Sylvia; Johns, David; Peacock, Ed
Subject: RE: park at spicewood ERM comments

Eduardo, Here's an unsigned memo on the Park at Spicewood project. I'll bring you a signed copy tomorrow. Please let me know if you want me to send a shapefile of the rimrock.

Sylvia R. Pope, P.G.

Hydrogeologist

City of Austin

Watershed Protection Department

Environmental Resources Management Division

Water Resources Evaluation Section

512-974-3429 Phone

512-802-7366 Pager

512-974-2846 Fax

From: Acosta, Eduardo Sent: Thursday, January 06, 2011 1:27 PM To: Pope, Sylvia Subject: FW: park at spicewood

Sylvia, did you have any comments to supply from our creekwalk for the Park at Spicewood Springs. I am resending the 100 year flood plain we had prepared for you.

From: Acosta, Eduardo Sent: Monday, December 06, 2010 11:57 AM To: Pope, Sylvia Subject: Fw: park at spicewood

From: Harper, Bond
Sent: Friday, November 19, 2010 05:08 PM
To: Acosta, Eduardo
Cc: Pope, Sylvia
Subject: RE: park at spicewood

Please see attached.

Bond A. Harper

Watershed Engineering

City of Austin

(512) 974-2829

From: Acosta, Eduardo Sent: Friday, November 19, 2010 4:13 PM To: Harper, Bond Cc: Pope, Sylvia Subject: park at spicewood

Bond, can you prepare a map that shows the 100 year inundation area for the park at spicewood dam? Thanks.

Eduardo Acosta, P.E., CFM, LEED AP Stormwater Pond Safety Program Manager Watershed Engineering Division (512)974-3008

Please consider the environment before printing this message.

noname.eml 35K View as Text Download

ATTACHMENT 14 CEF ADMINISTRATIVE VARIANCE

Watershed Protection Department Administrative Variance Form Findings of Facts

For the City of Austin Related to LDC 25-8-42 and 25-8-281 or City Code 30-5-42 and 30-5-281

GENERAL SITE INFORMATION:

- 1. SITE/PROJECT NAME: Old Lampasas #3 Dam Modernization
- COUNTY APPRAISAL DISTRICT PROPERTY ID No.: <u>Travis County Property IDs: 164674</u>, <u>164673</u>
- 3. ADDRESS/LOCATION OF PROJECT: 9022 Old Lampasas Trail, Austin, TX 78750
- 4. WATERSHED: Bull Creek
- 5. THIS SITE IS WITHIN THE (Check All that Apply): EDWARDS AQUIFER RECHARGE ZONE: □YES* ☑ NO EDWARDS AQUIFER CONTRIBUTING ZONE: □YES* ☑ NO
- 6. CRITICAL ENVIRONMENTAL FEATURES (CEFs) are present on site (please provide a number):
 - <u>1</u>Spring(s)/Seep(s) Canyon Rimrock(s) Bluff(s)

Point Recharge Feature(s)
 Wetland(s)
 Total Number of CEF(s) on Site

One (1) additional spring, one (1) wetland, and three (3) rimrocks are within 150-ft of the Site work area. The spring outfall (S-3) is described as a CEF, not the identified subterranean origin points.

7. IDENTIFY WHICH CEF(s) ARE REQUESTING THE VARIANCE(s):

 CEF TYPE:
 Rimrock
 CEF ID NO.
 206529; 206530; 270

 CEF TYPE:
 Spring
 CEF ID NO.
 206531; 206532

8. X ATTACH CEF LOCATION MAP AND CRITICAL ENVIRONMENTAL WORKSHEET

VARIANCE FROM (CHECK ALL THE APPLY):

- □ LDC 25-8-281(A) or City Code 30-5-281(A) Drainage patterns for proposed development must be designed to protect critical environmental features from the effects of runoff from developed areas, and to maintain the catchment areas of recharge features in a natural state. Special controls must be used where necessary to avoid the effects of erosion, or sedimentation, or high rates of flow.
- □ LDC 25-8-281(B) or City Code 30-5-281(B) A residential lot may not include a critical environmental feature or be located within 50 feet of a critical environmental feature.
- \boxtimes LDC 25-8-281(C)(1)(a) or City Code 30-5-281(C)(1)(a) The width of the buffer zone is 150 feet from the edge of the critical environmental feature (does not apply to recharge features or wetlands) *
- □ LDC 25-8-281(C)(1)(b) or City Code 30-5-281(C)(1)(b) The buffer zone coincides with the topographically defined catchment basin, except that the width of the buffer zone from the edge of the critical environmental feature is: not less than 150 feet; (ii) not more than 300 feet; and (iii)

calculated in accordance with the Environmental Criteria Manual (Point Recharge Features Only)*.

- LDC 25-8-281(C)(2) or City Code 30-5-281(C)(2) Within a buffer zone described in this subsection:
 (a) the natural vegetative cover must be retained to the maximum extent practicable; (b) construction is prohibited; and (c) wastewater disposal or irrigation is prohibited.
- □ LDC 25-8-281(C)(3) or City Code 30-5-281(C)(3) If located at least 50 feet from the edge of the critical environmental feature, the prohibition of Subsection (C)(2)(b) does not apply to: (a) a yard or hiking trail; or(b) a recharge basin approved under LDC <u>25-8-213</u> (*Water Quality Control Standards*) that discharges to a point recharge feature: (c) an innovative runoff management practice approved under LDC <u>25-8-151</u> (*Innovative Management Practices*).
- □ LDC 25-8-281(C)(4) or City Code 30-5281(C)(4) Perimeter fencing with not less than one access gate must be installed at the outer edge of the buffer zone for all point recharge features. The fencing must comply with the Standard Specifications Manual.
- □ LDC 25-8-281(C)(5) or City Code 30-5-281(C)(5) The owner must maintain the buffer zone in accordance with standards in the Environmental Criteria Manual to preserve the water quality function of the buffer.

*Administrative Variances do not apply to projects that seek a reduction of the Critical Environmental Feature (CEF) buffer of less than 50-ft for a point recharge feature, a spring and a seep. Such variances are formal land use commission variances (See LDC 25-8-41 or City Code 30-5-41). Wetland buffer modification and reductions are not variances (LDC 25-8-282 or City Code 30-5-282).

The director of the Watershed Protection Department may grant a variance described in Subsection (B) only after determining that development in accordance with the variance meets the objective of the requirement for which the variance is requested. In regards to critical environmental features, the minimum standard for the conservation of and the development around a CEF is:

- To prevent loss of recharge to localized aquifers supplying local seeps and springs essential to the maintenance of the ecosystem and the base flow and water quality of many of Austin's creeks; and
- To prevent loss of recharge to the Edwards Aquifer and to protect the quality of the recharge to the Edwards Aquifer.
- To maintain and/or enhance the baseflow quantity and water quality in watercourses to maximum extent possible.
- To reduce existing and future pollutant loads in watercourses to the maximum extent possible.

Please provide a written response to following questions explaining how the above standards will be met (Check 'X' for which questions apply).

1. ____For a property in the Barton Springs Zone, the granting of the variance will result in water quality that is at least equal to the water quality achievable without the variance.

2. <u>X</u> For variance(s) from Section <u>25-8-281</u>, which are indicated above, the proposed protective measures proposed with the variance will preserve all characteristics of the critical environmental feature at least equal to the water quality and quantity and achievable without the variance.

A goal of this project is to protect the water quality of the Bull Creek watershed by rehabilitating the project dam. The grading of the replacement dam with three-to-one vegetated slopes is intended to reduce sediment runoff compared to the current uneven, eroding boulder slopes.

Construction limits are planned to be greater than 50 feet from rimrock CEFs brg_id 270 and RR-2, and spring CEF S-1. CEF buffers for the spring CEFs S-3 and S-2, rimrock RR-1, and wetland W-1 would be disturbed.

One spring (S-3) flows out from beneath the existing dam and must be excavated for the safety of the replacement structure. This spring outlet has two origin points within the natural creek embankment that were identified using geophysical methods, and no excavation is proposed within the natural embankment. Flow from the spring origins is planned to be guided within a constructed drainage system designed for use as habitat by Jollyville Plateau Salamanders, a listed threatened species present at the site. By preventing springflow from transporting fill material from the dam, this system would reduce or eliminate sedimentation that is adversely affecting the creek and downstream CEFs.

A storm water pollution and prevention plan (SWPPP) would be implemented and maintained during construction to reduce impacts from stormwater runoff. The SWPPP would include a range of erosion and sedimentation control best management practices (BMPs) that are intended to maintain water quality, including:

- Erosion blankets and matting for non-embankment areas outside of 2-year floodplain;
- Mulch filter berms and socks throughout the construction site;
- Mulch along dam embankment slope and bounded by mulch socks to prevent debris from entering aquatic habitat;
- Perimeter silt fence to reduce wildlife incursions;
- Sod and seeding for permanent stabilization on embankment;
- Revegetation following COA Standard Specification 604S, for permanent stabilization in all other areas;
- Bypass system for upstream water to divert around the work areas; and
- Severe service rock berms (i.e., rock berms wrapped in filter fabric) downstream of the work areas.

BMPs would be regularly inspected and maintained, and an environmental inspector with Stop Work Authority will be on site to monitor construction.

During Phase 1 of construction, the area at the spring outlet would be cordoned off, no work would take place in this area, and the buried spring would flow undisturbed and unchanged to the tributary. If there were a sudden loss of spring flow because of construction activity during this phase, then work would stop to determine a remedy. Phase 2 of construction, within the area of the spring at the dam, would proceed only while the spring and creek are dry.

The southern construction entrance is an existing compacted dirt trail. The staging/spoils area will be accessed by two stabilized construction entrances and bordered by mulch socks to prevent erosion and sedimentation. This area will be revegetated according to COA 609S Seeding and Planting Specification. At the completion of construction, the stabilized construction entrance will be replaced with a reinforced concrete maintenance drive on the west side of the dam. Plantings will be added to the eastern side of the drive to serve as a vegetated filter before runoff reaches the creek and rimrock CEF.

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities.

Print Name: Christen Warkoczewski		Telepho	ne: 512-453-3733
Signature:	Email: cwar	koczews	ki@baereng.com
Representing: Baer Engineering and Environm	ental Consul	ting, Inc	Date:7/21/2022
(Name of Company)			
FOR WATERSHED PROTECTION DEPARTMENT ON	LY		
The waiver from $I DC 25-8-281(A)$ is:	Г] Denied	□ Approved**
The waiver from LDC 25-8-281(B) is $\frac{1}{2}$	Γ	∃ Denied	
The waiver from LDC 25-8-281(C)(1)(a) is:	Г	∃ Denied	Approved**
The waiver from LDC 25-8-281(C)(1)(b) is:	Г	Denied	Approved**
The waiver from LDC 25-8-281(C)(2) is:	 Г	Denied	Approved**
The waiver from LDC 25-8-281(C)(3) is:	 Г	∃ Denied	□ Approved**
The waiver from LDC 25-8-281(C)(4) is:	Г	Denied	
The waiver from LDC 25-8-281(C)($($) is:	Г	Denied	
	_		
The waiver from City Code 30-5-281(A) is:		Denied	□ Approved**
The waiver from City Code 30-5-281(B) is:		Denied	□ Approved**
The waiver from City Code 30-5-281(C)(1)(a) is:		Denied	
The waiver from City Code $30-5-281(C)(1)(b)$ is:		Denied	
The waiver from City Code $30-5-281(C)(2)$ is:		Denied	
The waiver from City Code $30-5-281(C)(3)$ is:		Denied	
The waiver from City Code $30-5-281(C)(4)$ is:		Denied	
The waiver from City Code 30-5-281(C)(5) is:		Denied	□ Approved**
**For each CEF and each variance granted, the appli- payment by submitting a copy of the receipt to Wate comment.	cant must pay rshed Protectio	a variance on Departn	fee, and provide proof of nent reviewer to clear
**Variance Fee = Number of Variances	2 _x 254.0	00F	ee = \$ <u>508.00</u>
Reasoning: Water quality and habitat for endangered salar throughout construction phases	nanders will i	remain	
		Eric Broy	MD
		ERM Rev	iewer (Print Name)
7/40/2022		4	(Λ)
		M	1 Siden
Date		Signature	

1	Project Name:	Old Lampasas #3 Dam Modernization		Primary Contact Name:	
2	Project Address:	9022 Old Lampasas Trail, Austin, TX 78750	(Phone Number:	
3	Site Visit Date:	07/15/2011; 10/26/2018; 7/8/2019		Prepared By:	
4	Environmental Resource Inventory Date:	7/26/2019 (waiver)	5	B Email Address:	C

9	FEATURE TYPE {Wetland,Rimrock, Bluffs.Recharge Feature.Spring}	FEATURE ID (eg S-1)	FEATURE LONGITU 1984 in Mete	JDE (WGS ers)	FEATURE LATITUDE (WG Meters)	S 1984 in	WET DIMENS	LAND SIONS (ft)	RIMROC DIMENS	CK/BLUFF GIONS (ft)	RI	ECHA DIN	RGE √ENS	FEATURE SIONS	Springs Est. Discharge
		(080 -)	Coordinate	notation	Coordinate	notation	х	Y	Length	Avg Height	x	у	z	Trend	cfs
	Wetland; COA brg_id 206533	W-1	97°47'53.78"W	DMS	30°25'14.94"N	DMS	2	50							
	Seep; COA brg_id 206531	S-1	97°47'55.02"W	DMS	30°25'15.59"N	DMS									
	Spring; COA brg_id 206532	S-2	97°47'53.49"W	DMS	30°25'14.73"N	DMS									
	Rimrock (COA brg_id 206529)	RR-1	97°47'55.44"W	DMS	30°25'15.90"N	DMS			95	9					
	Rimrock (COA brg_id 206530)	RR-2	97°47'54.46"W	DMS	30°25'21.77"N	DMS			70	9					
	Rimrock (COA brg_id 270)	Brg_id 270	97°47'56.90"W	DMS	30°25'23.50"N	DMS			150	7.5					
	Spring (outlet)	S-3	-97.798830°	DD	30.421490°	DD									



Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

<u>Method</u>		<u>Accuracy</u>
GPS	\boxtimes	sub-meter
Surveyed		meter
Other		>meter

Christen Warkoczewski

512-453-3733

Christen Warkoczewski

cwarkoczewski@baereng.com

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Professional Geologists apply seal below

