

U.S. Department of Housing and Urban Development 451 Seventh Street, SW Washington, DC 20410 www.hud.gov espanol.hud.gov

# Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

#### **Project Information**

Project Name: Burkburnett-Royal-Gardens

HEROS Number: 900000010427327

Start Date: 09/24/2024

Project Location: Taylor Pathway, Burkburnett, TX 76354

#### Additional Location Information:

Project Coordinates: Latitude 34.086359, Longitude -98.575691 Approximately 5 acres along D.W. Taylor Pathway Burkburnett, Wichita County, Texas 76354

#### Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project, Burkburnett Royal Gardens, includes new construction of an 80-unit LIHTC/market rate multifamily development. The complex will include one, two, and three-bedroom units in three (3) multi-story garden-style residential buildings on approximately 5 acres. The residential units will include six restricted to households earning 30 percent of the area median income (AMI), or less, 14 will be restricted to households earning 50 percent of the AMI, or less, 48 will be restricted to households earning 60 percent of the AMI, or less, and the remaining 12 units will be unrestricted market rate units. Site amenities will include a business center/computer lab, central laundry facility, clubhouse, courtyard, on-site management, pavilions with barbeque pits and picnic tables, fitness center, playground, horseshoe pits, and recreation areas. Residential units will consist of one-bedroom (650-654 SF), two-bedroom (926-932 SF), and three-bedroom (1,052 SF) units with a full kitchen and private entrances from an interior hallway. The project will include 171 parking spaces, which is higher than required.

#### **Funding Information**

Grant Number	HUD Program	Program Name	
22220	Community Planning and	HOME Program	\$2,649,000.00
	Development (CPD)		

Estimated Total HUD Funded Amount: \$2,649,000.00

Estimated Total Project Cost [24 CFR 58.2 (a) (5)]: \$13,437,473.00

#### Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure or Condition
Contamination and Toxic Substances	The property has been entered into the TCEQ
	Industrial Hazardous Waste Corrective Action (IHW-
	CA) program. Ongoing investigations are underway
	with oversight by TCEQ. The project's
	environmental consultant, HKC & Associates is
	recommending Risk-based corrective action (RBCA)
	with incomplete removal of contamination.
	Recommended mitigation includes: 1) utilizing
	impervious concrete parking, drive areas and
	building foundations to minimize direct soil contact
	with contaminated soils, 2) soil vapor barriers
	beneath future structures to reduce potential for
	vapor intrusion into the buildings, and 3)
	groundwater monitoring for one year to ensure
	groundwater remains protective of human health
	and the environment.
Permits, reviews, and approvals	All construction permits must be obtained from the
	local regulating jurisdiction, as required.
Environmental Justice	Environmental Justice considerations cannot be
	finalized until after onsite remediation activities
	have been completed.

#### Project Mitigation Plan

Please see above mitigation measures.

#### **Determination:**

X	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The project will not		
	result in a significant impact on the quality of human environment		
	Finding of Significant Impact		
Preparer	Signature: <u>Jaclyn Leasure</u>	Date:	4/2/2025

Name / Title / Organization: Jaclyn Leasure / / TEXAS DEPARTMENT OF HOUSING AND

		COMMUNITY AFFAI	IRS	11			
Certifying Off	icer Signature:		12	H	<i>M</i>	Date:	4/2/2025
	Brenda Hull,	Program Services	s Manag	jer		_	

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Name/ Title: \_\_\_\_\_

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environment Review Record (ERR) for the activity / project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

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#### Project Information

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HEROS Number: 90000010427327

**Start Date:** 09/24/2024

**Responsible Entity (RE):** TEXAS DEPARTMENT OF HOUSING AND COMMUNITY AFFAIRS, PO Box 13941 Austin TX, 78711

**RE Preparer:** Jaclyn Leasure

State / Local Identifier: TDHCA #21040 & 22220

Certifying Officer: Brenda Hull

Grant Recipient (if different than Responsible Ent ity):

Point of Contact:

**Consultant (if applicable):** PHASE ENGINEERING, INC.

Point of Contact: Tracy Watson

40 CFR 1506.5(b)(4): The lead agency or, where appropriate, a cooperating agency shall prepare a disclosure statement for the contractor's execution specifying that the contractor has no financial or other interest in the outcome of the action. Such statement need not include privileged or confidential trade secrets or other confidential business information.

Burkburnett-Royal-Gardens

By checking this box, I attest that as a preparer, I have no financial or other interest in the outcome of the undertaking assessed in this environmental review.

Project Location: Taylor Pathway, Burkburnett, TX 76354

#### Additional Location Information:

Project Coordinates: Latitude 34.086359, Longitude -98.575691 Approximately 5 acres along D.W. Taylor Pathway Burkburnett, Wichita County, Texas 76354

#### Direct Comments to:

#### Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project, Burkburnett Royal Gardens, includes new construction of an 80-unit LIHTC/market rate multifamily development. The complex will include one, two, and threebedroom units in three (3) multi-story garden-style residential buildings on approximately 5 acres. The residential units will include six restricted to households earning 30 percent of the area median income (AMI), or less, 14 will be restricted to households earning 50 percent of the AMI, or less, 48 will be restricted to households earning 60 percent of the AMI, or less, and the remaining 12 units will be unrestricted market rate units. Site amenities will include a business center/computer lab, central laundry facility, clubhouse, courtyard, on-site management, pavilions with barbeque pits and picnic tables, fitness center, playground, horseshoe pits, and recreation areas. Residential units will consist of one-bedroom (650-654 SF), two-bedroom (926-932 SF), and three-bedroom (1,052 SF) units with a full kitchen and private entrances from an interior hallway. The project will include 171 parking spaces, which is higher than required.

#### Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

There is a shortage of new, safe, modern affordable housing in the city of Burkburnett. Burkburnett Royal Gardens will significantly affect the need of affordable housing in the area. The new complex will increase economic development in the area in addition to the quality of social services. The project will provide rent based on income ranging from 30% to 60% AMI for the 68 income restricted units.

#### Existing Conditions and Trends [24 CFR 58.40(a)]:

The subject property is currently an undeveloped field covered with mowed grass and no trees. The property is bound by Overton Ray Elementary School to the south, single family residential properties to the west, a Masonic Lodge to the north, and a large undeveloped field to the east. Historically, the property and adjoining properties to the north and east were developed as a oil and gas refinery from the early-1940s to the mid-1980s. The property has undergone remediation activities through the Texas Commission of Environmental Quality (TCEQ) Corrective Action Program. As per the

Burkburnett-Royal-Gardens

Bureau of Labor Statistics, the unemployment rate has significantly decreased from 5.3% in 2014 to overall 2.9% for the Wichita Falls area by February 2024. According to the U.S. Census Bureau, the city's growth rate of around 0.56% a year. The median family income is considered to be around \$62K which is slightly lower than average for USA and Texas. According to the Market Feasibility Study, in 2021, approximately 64 percent of the renter population in the area earned less than \$40,000, indicating a need for affordable housing. The total housing units in the area in 2021 was 37,416, while only 1,272 were affordable housing units, with most having a wait list. According to research, the low-Income developments will directly benefit lower Income households. The location of the subject property in the city center of Burkburnett offers convenient access to transportation options, with proximity to shopping, cultural activities and public services Including emergency health care, fire, and police services.

#### Maps, photographs, and other documentation of project location and description:

<u>Topo Map.pdf</u> <u>Site Sketch.pdf</u> <u>Site Plan.pdf</u> <u>Location Map.pdf</u> <u>Royal Garden BURKBURNETT Photos.pdf</u>

#### Determination:

$\checkmark$	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The
	project will not result in a significant impact on the quality of human
	environment
	Finding of Significant Impact

#### Approval Documents:

7015.15 certified by Certifying Officer on:

7015.16 certified by Authorizing Officer on:

#### Funding Information

Grant / Project	HUD Program	Program Name	Funding
Identification			Amount
Number			

22220	Community Planning and	HOME Program	\$2,649,000.00
	Development (CPD)		

Estimated Total HUD Funded,	\$2,649,000.00
Assisted or Insured Amount:	

# Estimated Total Project Cost [24 CFR 58.2 (a) \$13,437,473.00 (5)]:

#### Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities

<b>Compliance Factors</b> : Statutes, Executive Orders, and Regulations listed at 24 CFR §50.4, §58.5, and §58.6	Are formal compliance steps or mitigation required?	Compliance determination (See Appendix A for source determinations)		
STATUTES, EXECUTIVE ORE	DERS, AND REGULATIO	ONS LISTED AT 24 CFR §50.4 & § 58.6		
Airport Hazards Clear Zones and Accident Potential Zones; 24 CFR Part 51 Subpart D	□ Yes ☑ No	The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards		
<b>Coastal Barrier Resources Act</b> Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	□ Yes ☑ No	This project is not located in a CBRS Unit. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act.		
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001- 4128 and 42 USC 5154a]	□ Yes ☑ No	The subject property is located in Unshaded Zone X (Outside the 100 and 500-year floodplains) as delineated on the FEMA FIRM Map Number 48485C0180G effective date February 2, 2010. Flood insurance is not required, and the project is in compliance with the flood insurance requirements.		
STATUTES, EXECUTIVE ORE	STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR §50.4 & § 58.5			
Air Quality Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	□ Yes ☑ No	The subject property is located in Wichita County which is in attainment with all criteria pollutants according to the National Ambient Air Quality		

Standards (NAAQS).

<b>Coastal Zone Management Act</b> Coastal Zone Management Act, sections 307(c) & (d)	☐ Yes ☑ No	This project is not located in or does not affect a Coastal Zone as defined in the state Coastal Management Plan. The project is in compliance with the Coastal Zone Management Act.
Contamination and Toxic Substances 24 CFR 50.3(i) & 58.5(i)(2)]	✓ Yes   No	A Phase I Environmental Site Assessment (ESA), prepared by Phase Engineering, LLC, was completed for the subject property dated February 22, 2022. The ESA report was completed in accordance with the ASTM Standard Practice E1527-21, the EPA Rule on All Appropriate Inquiries and HUD's policy at 24 CFR 58.5(i)(2). The assessment revealed a recognized environmental condition (REC) and vapor encroachment condition (VEC) in connection with the property due to historical use of the property and adjoining properties as an oil / gas refinery from the early 1940s to mid- 1980s. A Limited Subsurface Investigation/Phase II ESA was completed for the subject property by Phase Engineering, LLC dated September 30, 2022. The purpose of the Phase II ESA was to evaluate the presence of chemicals of concern (COC) within the soils and groundwater as a result of potential release of hazardous substances or petroleum products due to the historic oil / gas refinery. Five (5) soil borings were completed to a depth of 12-18 feet in select areas of the property most likely to have been affected by an undocumented release by the former uses of the subject property and adjoining properties. Soil samples were collected from the borings prior to converting them to temporary monitoring wells for the collection of groundwater samples. In addition, four soil vapor monitoring ports were installed in select areas for the purpose of collecting soil vapor samples. Laboratory analysis of the

samples collected reported evidence of
petroleum products and metals in the
soil and groundwater above their
respective regulatory action levels. In
addition, the soil vapor analytical results
indicate there is potential for vapor
intrusion in two locations on the subject
property. The concentrations of
property. The concentrations of
the coil and groundwater represent a
the solitation groundwater represent a
reportable release and subject to
reporting under the Texas Risk
Reduction Program (TRRP) and the
potential for vapor intrusion requires
mitigation for any future onsite
structures. An Affected Property
Assessment Report (APAR) was
prepared by HKC & Associates and
submitted to the TCEQ in December
2023. The property was entered into the
TCEQ Industrial Hazardous Waste
Corrective Action (IHW-CA) program
with case number T3840. Ongoing
investigations are underway with
oversight by TCEQ. The project's
environmental consultant, HKC &
Associates is recommending Risk-based
corrective action (RBCA) with
incomplete removal of contamination.
Recommended mitigation includes: 1)
utilizing impervious concrete parking.
drive areas and building foundations to
minimize direct soil contact with
contaminated soils. 2) soil vapor
barriers beneath future structures to
reduce potential for vapor intrusion into
the huildings and 3) groundwater
monitoring for one year to ensure
groundwater remains protective of
buman bealth and the environment. The
file is currently active and undergoing
roviow and everyight by the TCEO. Final
review and oversignt by the ICEQ. Final
review and approval by ICEQ IS
pending. Radon testing data from the
CDC Environmental Public Health
Tracking Network map shows data for

		Wichita County, which is the smallest area for which data is available. The radon data indicates more than 10 tests have been conducted over the last 10 years with an annual mean pre- mitigation radon measurement of 0.8 pCi/L. Science-based data is available for the project area which documents low potential for indoor radon levels above the EPA recommended action level of 4.0 pCi/L.
Endangered Species Act Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	☐ Yes ☑ No	A request was submitted to the U.S. Fish & Wildlife Service (USFWS) to identify Endangered and Threatened Species and Critical Habitat in the project area. Review of the official list provided by the USFWS identified five (6) threatened, endangered, or candidate species known to occur in the county. The property or nearby properties do not include critical habitat. Two of the protected species include migrating birds which must be evaluated for wind energy-related projects only, which does not include the proposed project. The two listed mammals are the Texas kangaroo Rat and Tricolored Bat which both require vegetation for roosting and burrowing, the project location is cleared of all vegetation; therefore, is not suitable for these species. The Whooping Crane and Monarch Butterfly will not be affected since the subject property is already cleared with no vegetation to attract these species. No habitat for any of the listed species occur on or near the property and none of the species are likely to be found on the property. A review of each species' habitat and why none will be impacted by the project can be found in the supporting documentation. A review of state-listed and known reported occurrences of threatened or endangered species in the project vicinity was completed by consultation

		with the Texas Natural Diversity
		Database (TXNDD) and Texas Parks and
		Wildlife Department Results of the
		inquiry determined that the subject
		property is within the Texas kangaroo
		Bat and River Punfish known areas of
		Bat and River Pupilsh known aleas of
		occurrence; nowever, there is no
		suitable nabitation the subject property
		for either of these species. As
		proposed, the project will have No
		Effect on federally listed species.
Explosive and Flammable Hazards	🗆 Yes 🗹 No	The subject property is not a hazardous
Above-Ground Tanks)[24 CFR Part		facility. Several off-site explosive or
51 Subpart C		flammable hazards were identified
		including a 500-gallon propane tank, a
		diked diesel tank, and a 1,700-gallon
		produced water tank. Each of these
		hazards were determined to be located
		at an Acceptable Separation Distance
		(ASD) from the subject property based
		on calculations from HUD's Acceptable
		Separation Distance tool. No other
		hazards were identified. The project is in
		compliance with explosive and
		flammable hazard requirements.
Farmlands Protection	□ Yes ☑ No	The project will Include new
Farmland Protection Policy Act of		construction on currently undeveloped
1981, particularly sections 1504(b)		land within the Burkburnett Urban Area.
and 1541: 7 CFR Part 658		However, the property does not meet
		the definition of farmland per the
		Earmland Protection Policy Act (EPPA)
		Since it is located within an "urbanized
		area (IIA)" per the US Consus Bureau
		Tigor Web Man In addition all soils for
		the subject preparity area are not
		the subject property area are not
		considered prime farmand per the
		INKUS WED SOIL SURVEY. THIS PROJECT IS
		exempt from provisions of the Farmland
		Protection Policy Act and is in
		compliance with this part.
Floodplain Management	⊔ Yes ☑ No	This project does not occur in the
Executive Order 11988, particularly		FFRMS floodplain. CISA reports are only
section 2(a); 24 CFR Part 55		available for coastal areas. The project is
		in compliance with Executive Orders
		11988 and 13690.

Historic Preservation	🗆 Ye	es	$\checkmark$	No	On behalf of the TDHCA , A request for
National Historic Preservation Act of					Section 106 review was sent to the
1966, particularly sections 106 and					SHPO on September 1, 2022, by Phase
110; 36 CFR Part 800					Engineering LLC, with a follow up email
					sent on April 18, 2024, regarding a
					boundary change. The SHPO / Texas
					Historical Commission (THC) responded
					on May 10. 2024, indicating no historic
					properties present or affected
					considering both above-ground
					resources and archeology resources.
					However, if buried cultural materials are
					encountered work should cease in the
					immediate area: work can continue
					where no cultural materials are present
					Please contact the THC's Archology
					Division at E12 462 6006 to consult on
					further actions that may be necessary to
					not actions that may be necessary to
					protect the cultural remains. An
					Invitation to consult was submitted to
					the Wichita County Historical
					Commission on April 18, 2024. 10-date,
					no response from this office has been
					received. Five (5) Native American
					tribes have shown an interest in new
					developments within Wichita County
					according to HUD's Tribal Directory
					Assessment Tool (TDAT). Consultation
					with all six of the tribes was initiated by
					letters from TDHCA on September 6,
					2022. To-date no responses have been
					received from tribal consultations and
					the consultation period has expired.
Noise Abatement and Control	🗆 Ye	es	$\checkmark$	No	A noise study prepared for the proposed
Noise Control Act of 1972, as					development identified a railroad as the
amended by the Quiet Communities					only noise generating feature within the
Act of 1978; 24 CFR Part 51 Subpart					preliminary search distances from the
В					subject property. Based on the site plan,
					the outdoor amenities, and the eastern
					facade of the residential building will be
					the closest noise-sensitive receptors to
					the railroad, thus it was selected as a
					Noise Assessment Location (NAL) for the
					analysis. HUD's Day/Night Noise Level
					(DNL) Electronic Assessment Tool was
					utilized to measure the noise level at

		this location. * NAL #1 - Outdoor Amenities: 48 dB - Acceptable * NAL #2
		- Eastern Facade of Building: 48 dB -
		for the selected NAL falls within the
		range of below 65 dB, which is
		considered "Acceptable" based on the
		HUD guidelines. Within this range, the
		site is considered in compliance.
Sole Source Aquifers	🗆 Yes 🗹 No	The project is not located on a sole
Safe Drinking Water Act of 1974, as		source aquifer area. The project is in
amended, particularly section		compliance with Sole Source Aquifer
1424(e); 40 CFR Part 149		requirements.
Wetlands Protection	∐ Yes ⊻ No	Based on a review of the National
Executive Order 11990, particularly		Wetlands Inventory (NWI) map, there
sections 2 and 5		are no mapped wetland areas on the
		subject property. An on-site review of
		the subject property round no wetland
		wetlands areas. Since no wetland areas
		will be impacted this project is in
		compliance with Executive Order 11990
Wild and Scenic Rivers Act	□ Yes 🗹 No	This project is not within proximity of a
Wild and Scenic Rivers Act of 1968.		NWSRS river. The project is in
particularly section 7(b) and (c)		compliance with the Wild and Scenic
		Rivers Act.
HUD HC	OUSING ENVIRONMEN	ITAL STANDARDS
	ENVIRONMENTAL J	USTICE
Environmental Justice	🗆 Yes 🗹 No	No adverse environmental impacts were
Executive Order 12898		identified in the project's total
		environmental review. The project is in
		compliance with Executive Order 12898.

#### Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

**Impact Codes**: An impact code from the following list has been used to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact May require mitigation

(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement.

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		
		LAND DEVELOPMENT	
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The subject property is currently zoned as MF - Multifamily. The MF district is an attached residential district intended to provide a residential density of 21 dwelling units per acre. The permitted land uses will include "low- and mid-rise multiple-family dwellings and garden apartments". The proposed development's residential density per acre and all other ordinances conform to zoning requirements. The subject property is surrounded by compatible base zoning categories, urban design, and land uses.	
Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff	2	Soil Stability: Soil components at the subject property have been defined by the NRCS as Tipton loam. This soil type is classified as moderately drained with a high shrink-swell potential and a reinforced concrete slab rating of "Somewhat Limited." Due to previous development, unnatural soils and base material may be present and will need to be replaced with an acceptable structural fill material for increased stability and low maintenance. Construction plans should refer to a soil geotechnical report, if available. Slope: Surface elevation for the subject property is approximately 1046- 1048 feet above mean sea level (msl), with slight sloping of 0 to 2 percent across the subject property to the east. There are no significant slope concerns on the property. Erosion: There are no active signs of erosion and no waterbodies are located on or adjacent to the subject property. The project activities will involve demolition and ground disturbance such as grading and construction of underground utilities and structural foundations. Therefore, the subject property may be susceptible to soil erosion during construction activities. Best management practices should be employed to control runoff from the construction site	

		-	
Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		
		to prevent detrimental impacts to surface	
		and ground water. Drainage/ Stormwater	
		Runoff: A proposed stormwater detention	
		area is located in the southeast corner of	
		the subject property to reduce the drainage	
		runoff to the pre-developed rate. The use of	
		porous pavement may help to reduce water	
		runoff and protect the local ecosystem.	
Hazards and	2	The project will not be affected by nearby	
Nuisances including		natural or man-made hazards. No major	
Site Safety and Site-		highways, intersections, railroads, or	
Generated Noise		hazardous facilities are located near the	
		project area.	
		SOCIOECONOMIC	I
Employment and	1	According to the US Census the surrounding	
Income Patterns	-	area is 24% low income with a 4%	
		unemployment rate. The planned	
		development may increase the employment	
		and income in the area by utilizing local	
		workers temporarily during construction	
		The development is funded with federal tax	
		credits and will assist residents find	
		employment, which will bein the local	
		economy. The construction of a new	
		complex and associated activities will	
		nositively impact the employment and	
		income natterns in the area	
Demographic	1	The census tract containing Burkhurnett	
Character Changes /	-	Boyal Gardens has a low concentration of	
Displacement		low-income persons: the complex will assist	
Displacement		in closing any income segregation gap. The	
		residential density of the immediate area	
		will increase with the addition of 80 new	
		units However the surrounding area is	
		densely populated and the demographic	
		characteristics of the neighborhood will not	
		he greatly impacted. The new construction	
		activities will be on previously developed	
		non-occupied land Therefore no	
		displacement of residential or commercial	
		establishments will occur	
Environmental	2	No adverse environmental conditions work	
lustice FA Factor	<u> </u>	identified in the total environmental review	
	1		1

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code	•	U
		that will disproportionately impact a low- income or minority community. The subject property is undeveloped and is not known to have local or cultural significance. The addition of the 80 affordable/market-rate housing units is expected to positively impact the community by providing safe, modern housing and access to community resources.	
	COMMU	JNITY FACILITIES AND SERVICES	I
Educational and Cultural Facilities (Access and Capacity)	2	Schools: According to the National Multi- Family Housing Council, the complex will have an estimated 18 school-aged students. The subject property is served by the Burkburnett Independent School District. School-aged children will attend Overton Ray Elementary School, Burkburnett Middle School, and Burkburnett High School. The student to teacher ratio is 13.7:1 which is lower than the Texas average of 15:1. A public information request was submitted to Burkburnett ISD on April 23, 2024, regarding the district's ability to accommodate future children of the development. To date, no response has been received. However, it is expected that due to the district's high turnover rate of 14%, the schools will be able to properly accommodate future children. The Elementary, and High School are located across D. W Taylor Pathway, and the middle school is a 0.9-mile walk, that only crosses County Road and S Ave D which have traffic lights. Crosswalks are available from the subject property to the school's location, and bus transportation is provided by Burkburnett ISD. Based on this assessment, safe access is available to all the nearby schools. Vernon College- Century City Center is the nearest community college, located 18.4 miles south of the subject property. Vernon College is a two-year community college with a variety of college	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		
		transfer and technical programs. Cultural Facilities: The subject property is located 2.3 miles from a Historical Marker of The Red River. The historical marker includes the story of the Red River and the legal fight between Oklahoma and Texas for ownership of it. The MKT Train Depot- Burkburnett Historical Society is located 0.7 miles from the subject property at 108 West 3rd Street. The historical society displays the heritage and history of Burkburnett through tours, collections, properties, and activities. The nearest library to the subject property is the Burkburnett City Library at 215 East 4th Street. The library is 1.1 miles from the subject property and offers book clubs, computer classes, English learning, citizenship classes, and workforce training. The Backdoor Theatre is a performing arts theater located 14.1 miles from the subject property at 501 Indiana Avenue. The theatre features local productions on 2 stages and offers dinner shows.	
Commercial Facilities (Access and Proximity)	1	The subject property is close to a wide variety of amenities, including grocery stores, pharmacies, and banks. United Supermarkets is 0.6 miles and Burk Market & Cafe is 1.4 miles from the subject property. Nearby pharmacy options include United Supermarkets (0.6 miles) and Boomtown Drug (1.0 miles). Many banks are also located near the subject property, including First Bank (0.9 miles), Prosperity Bank (0.6 miles), and Union Square (1.3 miles). The subject property is located in a populated suburban area close to plenty of shopping. Burk Plaza is a small retail strip mall located 0.4 miles from the subject property with clothing and dining options. Burkburnett Antique Mall is 0.8 miles from the subject property at 119 East 3rd Street.	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		•
Health Care / Social	2	Health Care: The nearest full-service general	
Services (Access and		hospital is United Regional Hospital, 14.3	
Capacity)		miles south of the subject property at 1600	
		11th Street. The hospital provides medical	
		services to a nine-county area and is the	
		area's only Level II Trauma Center as well as	
		the Primary Stroke Center for the region.	
		Nearby urgent care facilities include URPG	
		Burkburnett Clinic, 0.9 miles to the east of	
		the subject property. The clinic provides	
		primary care services, a wide range of	
		specialties, and serves as a walk-in clinic for	
		minor injuries and illnesses. 18.9 miles	
		south of the subject is Community Med	
		Family Urgent Care- Wichita Falls. The	
		Texoma Family Clinic is a nearby primary	
		care provider located 1.3 miles southeast of	
		the subject property. Boomtown Vision is	
		only 0.5 miles from the subject property.	
		Social Services: Residents of the new	
		development will have easy access to	
		support services in the local community.	
		Several food distribution centers are within	
		a ten-minute drive from the subject	
		property, including at Grace Ministries (0.9	
		miles) and Jubilee Restoration Center (0.5	
		miles). Two senior assisted living facilities	
		are within a 3-mile radius including	
		Evergreen Healthcare and Pioneer Crossing	
		Burkburnett. The Wichita County Public	
		Health (WIC) Clinic is 14 miles from the	
		subject property at 1700 3rd Street.	
		Qualifying families receive nutrition	
		education, supplemental foods,	
		preastreeding assistance, medical referrals,	
		counseling, and nealth screenings. The	
		Salvation Army is an international	
		evangelical church and charitable	
		Folls. The conter is located 14.5 miles from	
		the subject property and provides ich	
		training disaster relief homeless shelters	
		training, disaster relief, nomeless shelters,	
		alconol and drug renab, after-school	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code	(2000 5	
		programs, and a food pantry (2900 Seymour Highway).	
Solid Waste Disposal	2	The City of Burkburnett Solid Waste and	
and Recycling		Recycling Division offers commercial	
(Feasibility and		dumpster collection and will likely service	
Capacity)		the new complex. Any construction waste	
		accumulated during complex construction	
		should be properly disposed of in	
		accordance with applicable local, state, and	
		federal environmental permits, statutes,	
		and regulations. The city of Burkburnet	
		has a Citizen Collection station, which is also	
		the city landfill, located at 2172 Fairview	
		Road, which is open every Saturday.	
Waste Water and	2	The City of Burkburnett will provide	
Sanitary Sewers		wastewater and sewer services to the newly	
(Feasibility and		built complex via existing 6-inch sanitary	
Capacity)		sewer line along the north property line.	
		The existing line appears to be at an	
		adequate depth to serve the development.	
Matar Supply	2	A lift station should not be necessary.	
(Eoosibility and	2	file City of Burkburnett will provide water	
(Teasibility and		evisting 6-inch water line on the east side of	
Capacity)		County Road A 6-inch water line will be	
		added to extend onto the existing line along	
		County Road. Two proposed fire hydrants	
		are located in the middle of the subject	
		property a new tap will need to be created	
		in order to tie into the existing water line. A	
		water meter will also need to be installed.	
		According to the 2022 City of Burkburnett	
		Drinking Water Quality Report, all regulated	
		contaminants tested below the level of	
		violation and in compliance with state and	
		federal guidelines.	
Public Safety -	2	Police Services: The nearest Burkburnett	
Police, Fire and		Police Department is located at 101 East	
Emergency Medical		College, approximately 0.7 miles from the	
		subject property. An email was sent to the	
		department on April 24, 2024, regarding	
		average response time to emergency calls	
		for the new development. Phase	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		
		Engineering received a response on May 1, 2024, with no objection to the proposed project. Based on the drive time from the police station to the property at posted speed limits, the response time would be approximately 2 minutes. The proposed development is not likely to have a significant impact on policing services. Fire Services: The nearest fire station to the subject property is Burkburnett Fire Station #3, which is 0.9 miles from the subject property at 100 Tommy Thornton Way. An email was sent to the department on April 24, 2024, regarding average response time to emergency calls for the new development. Phase Engineering received a response on April 25, 2024, with no objection to the proposed project. Based on drive time from the fire station to the subject property, response time would be approximately three minutes at the posted speed limits. The proposed development is not anticipated to have a significant impact on the fire department. Emergency Health Care: The nearest full-service hospital with 24-hour emergency care is provided by United Regional (14.3 miles, 1600 11th Street). United Regional is a general acute care hospital with a focus on surgery and emergency care. Emergency medical transport for residents will be provided by the Burkburnett Fire Department Station #3. The proposed complex is not anticipated to generate an increased demand on EMS	
Parks, Open Space and Recreation (Access and Capacity)	2	According to the site plan, the new development will include a courtyard, outdoor amenity area, and clubhouse. Many	
		small neighborhood parks are located within a two-mile radius of the subject property, including Friendship Park (0.8 miles), Freeman Park (1.0 miles), and Permian Park (0.8 miles). The Burkburnett	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		_
		Community Center is located next to Friendship Community Park. The Community Center provides indoor recreational space, a variety of sports options, and the convenience of being located next to a park. Additionally, part of the Community Center includes a skate park which is located across the street. Boomtown Bay Family Aquatic Center is located 0.9 miles south of the subject property and is a seasonal water park for all ages.	
Transportation and Accessibility (Access and Capacity)	2	Transportation: There are no public transportation services provided by the city of Burkburnett. However, the Wichita Falls Transit System, Falls Ride, provides public transportation for the City of Wichita Falls and deviations from the seven routes are available. The nearest bus stop is located 7.5 miles south of the subject property at Missile Road. The central location of the subject property is ideal for walking, biking or short car rides to residents needs throughout the city. The property will offer onsite parking, 1.75 spaces for each one- bedroom unit, 2 spaces for each two- bedroom unit, and 2.5 spaces for each three-bedroom unit. The complex will also be ADA compliant with ramps and handicap parking spots. A Greyhound bus stop is located at Sheppard Air Force Base, 10.2 miles from the subject property. Inexpensive tickets are available with direct routes to Fort Worth, San Antonio, and Sparks. Dallas-Fort Worth International Airport (DFW) is located approximately 130 miles southeast from the subject property and is the largest hub for American Airlines, which is headquartered nearby. DFW provides service to 260 destinations, including 67 international and 193 domestic destinations. Accessibility: The subject property is located in an expanding area of	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		iningution
Unique Natural Features /Water	2	Burkburnett with easy access to Interstate 44 and State Highway 240. Wichita Falls is a 15- minute drive and downtown Fort Worth is a 2- hour drive. Wichita Falls Regional Airport is a small, local airport located 12.5 miles southeast. <b>NATURAL FEATURES</b> No unique natural features are located on or near the subject property, including	
Resources		caves, cliffs, vistas, canyons, waterfalls, sand dunes, or tree stands, based on observations during site visits and review of topographic maps. Since the project will not utilize water wells or septic systems and is not located near a natural waterbody, it will not adversely affect water resources.	
Vegetation / Wildlife (Introduction, Modification, Removal, Disruption, etc.)	2	The subject property consists of plowed land with no trees or vegetation. Migratory birds that nest on the ground may be present among tall grasses; therefore, ground disturbance should occur outside of the peak nesting period of March through August to avoid destruction of individuals or eggs. However, if land clearing activities must be conducted during this time, a survey for all active nests should be conducted by a qualified biologist no more than 7-10 days prior to commencing work. The complex will include 15% of the acreage as useable open space. The use of native, non-invasive plant species is preferred. In addition, the planned construction activities will not create a favorable habitat for pests or invasive species.	
Other Factors 1	2	The subject property is located within a well-developed suburban area. Vehicle exhaust from the surrounding surface streets will have an impact on air quality at the subject property. However, air quality at the property is expected to be in-line with much of the Burkburnett area. Residents of the complex will not be exposed to lower air quality than an average resident of the area.	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code	•	Ū
Other Factors 2	2	No other known environmental factors are	
		affected by the proposed development.	
		CLIMATE AND ENERGY	
Climate Change	2	According to FEMA's National Risk Index for	
		the subject property's census tract, overall	
		risk from natural hazards is considered	
		"Relatively Moderate" and includes hail, ice	
		storms, riverine flooding, and tornado.	
		However, community resilience is	
		considered "Relatively High" and the	
		community is prepared for natural hazards,	
		can adapt to the changing conditions, and	
		recover quicker from disruptions.	
Energy Efficiency	2	The City of Burkburnett has adopted the	
		2012 International Energy Conservation	
		Code. The planned development will meet	
		or surpass all energy efficiency and	
		conservation codes required by the city and	
		state. Additionally, the complex will feature	
		energy efficient lighting and appliances.	

#### Supporting documentation

EA Factors - Land Development.pdf EA Factors - Community Facilities and Services.pdf

#### Additional Studies Performed:

ASTM Phase I ESA, by Phase Engineering, dated February 22, 2022 ASTM Phase 2, ESA, by Phase Engineering, dated September 30, 2022 APAR, by HKC & Associates, dated December 2023

#### IHW\_CA 3840 APAR UPDATE2 24\_08\_12(1).pdf 202209001 South of Williams Drive BURKBURNETT PII(1).pdf 202201183 South of Williams Drive BURKBURNETT TDHCA Phase 1(1).pdf

#### Field Inspection [Optional]: Date and completed

by: Derek Prunty

2/9/2022 12:00:00 AM

Royal Garden BURKBURNETT Photos.pdf

#### List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Burkburnett-Royal-Gardens

National Park Service Texas Parks and Wildlife Texas Natural Diversity Database (TXNDD) United States Fish and Wildlife Service Mr. Mark Wolfe, State Historic Preservation Officer, Texas Historical Commission Wichita County Historical Commission USDA Natural Resource Conservation Service Federal Emergency Management Agency U.S. Department of Housing and Urban Development SHPO Guidance Memo: http://www.thc.texas.gov/ U.S. Fish & Wildlife Service: https://www.fws.gov/ U.S. Department of Agriculture NRCS: https://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/ Federal Emergency Management Agency: https://www.fema.gov/ U.S. Geological Survey: https://www.usgs.gov/ U.S Environmental Protection Agency EJSCREEN: https://www.epa.gov/ejscreen U.S. Census Bureau: https://www.census.gov/ National Wild and Scenic Rivers System: https://www.rivers.gov/ DNL Calculator: https://www.hudexchange.info/environmental-review/dnl-calculator/ Railroad Commission of Texas: http://www.rrc.state.tx.us/ Texas Commission on Environmental Quality: https://www.tceq.texas.gov/ Texas Commission on Environmental Quality Air Quality: https://www.tceq.texas.gov/airquality/ Texas Historical Commission: http://www.thc.texas.gov/ Texas Water Development Board: http://www.twdb.texas.gov/ TCEQ Sole Surface Aquifers: http://tceq.maps.arcgis.com/ Texas Education Agency: https://tea.texas.gov/2017accountability.aspx

#### List of Permits Obtained:

All construction permits must be obtained from the local regulating jurisdiction, as required.

#### Public Outreach [24 CFR 58.43]:

A combined Notice of Finding of No Significant Impact (FONSI) and Intent to Request a Release of Funds (RROF) will be published upon completion of the environmental review.

#### Cumulative Impact Analysis [24 CFR 58.32]:

There is a great demand for affordable housing for residents with discounted house rent. Future developments of affordable as well as market rate housing will be eventually developed to meet the demand. The new construction will provide lowincome residents of the Burkburnett area with the opportunity to have an overall better-quality living conditions while maintaining affordability and offering residents a variety of housing options.

#### Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

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Alternative 2: Constructing the proposed project in a different location The idea and purpose for the proposed development was created from a need to serve the community of Burkburnett, with the location being in the center of the city to better serve the housing needs for their clients. This neighborhood is close proximity to all the services in the city and has easy access to Wichita Falls. Selecting a different location would Increase the project costs and impact the availability of affordable living in Burkburnett, therefore it is not a preferred option. Alternative 3: Constructing the project in the proposed location Constructing the development as proposed at the subject property is the preferred option. The property is an ideal location for an affordable housing development with access to shopping, grocery stores, banks, restaurants, recreational facilities, transportation, healthcare and social services. Design of the building will allow for enough accessible parking and safe access for the disabled and seniors, with onsite community amenities.

#### No Action Alternative [24 CFR 58.40(e)]

Alternative 1: No Action The subject property consists of primarily undeveloped land, the implementation will bring long-term benefits to future residents. Without this project, there will continue to be a shortage of affordable and supportive housing in the City of Burkburnett, especially considering the public housing waiting list for low-Income housing units.

#### Summary of Findings and Conclusions:

The proposed project contemplates the development and construction of a multifamily property known as Burkburnett Royal Gardens. The proposed project Includes the development of a tract of vacant, undeveloped land into a mixed-Income, multi-family development. The purpose is to provide affordable and workforce housing to a city undergoing revitalization with little affordable housing stock. The total environmental review suggests negative environmental impacts will be minimal. Since the project includes new construction of a residential development in exceedance of four units, it is not exempt or categorically excluded under 50.19 or 50.20 this ERR has been classified as an Environmental Assessment. The project has not been determined to have a potentially significant impact on the human environment, thus an Environmental Impact Statement is not required.

#### Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law,	Mitigation Measure or	Comments	Mitigation	Complete
Authority, or	Condition	on	Plan	
Factor		Completed		
		Measures		
Contamination	The property has been entered	N/A	A No Further	
and Toxic	into the TCEQ Industrial		Action Letter	
Substances	Hazardous Waste Corrective		(NFA) from	
	Action (IHW-CA) program.		the TCEQ	
	Ongoing investigations are		must be	
	underway with oversight by		obtained and	
	TCEQ. The project's		included in	
	environmental consultant, HKC		HEROS. Any	
	& Associates is recommending		conditions	
	Risk-based corrective action		such as	
	(RBCA) with incomplete		Engineering or	
	removal of contamination.		Institutional	
	Recommended mitigation		Controls	
	includes: 1) utilizing impervious		(EC/IC) must	
	concrete parking, drive areas		be	
	and building foundations to		incorporated	
	minimize direct soil contact		into an	
	with contaminated soils, 2) soil		Operations	
	vapor barriers beneath future		and	
	structures to reduce potential		Maintenance	
	for vapor intrusion into the		(O&M) Plan or	
	buildings, and 3) groundwater		filed in	
	monitoring for one year to		property deed	
	ensure groundwater remains		records.	
	protective of human health			
	and the environment.			
Environmental	Environmental Justice	N/A	Environmental	
Justice	considerations cannot be		Justice shall	
	finalized until after onsite		be evaluated	
	remediation activities have		after the	
	been completed.		onsite	
			remediation	
			activities have	
			been	
			completed.	

### **Project Mitigation Plan**

Please see above mitigation measures.

#### Supporting documentation on completed measures

# **APPENDIX A: Related Federal Laws and Authorities**

#### **Airport Hazards**

General policy	Legislation	Regulation
It is HUD's policy to apply standards to		24 CFR Part 51 Subpart D
prevent incompatible development		
around civil airports and military airfields.		

**1.** To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

✓ No

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

#### Screen Summary

#### **Compliance Determination**

The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements.

#### Supporting documentation

#### Airport\_Hazards.pdf

#### Are formal compliance steps or mitigation required?

Yes

✓ No

### **Coastal Barrier Resources**

General requirements	Legislation	Regulation
HUD financial assistance may not be	Coastal Barrier Resources Act	
used for most activities in units of the	(CBRA) of 1982, as amended by	
Coastal Barrier Resources System	the Coastal Barrier Improvement	
(CBRS). See 16 USC 3504 for limitations	Act of 1990 (16 USC 3501)	
on federal expenditures affecting the		
CBRS.		

#### 1. Is the project located in a CBRS Unit?

✓ No

Document and upload map and documentation below.

Yes

#### **Compliance Determination**

This project is not located in a CBRS Unit. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act.

#### Supporting documentation

Coastal Barrier Resources.pdf

#### Are formal compliance steps or mitigation required?

Yes

✓ No

#### Flood Insurance

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be	Flood Disaster	24 CFR 50.4(b)(1)
used in floodplains unless the community participates	Protection Act of 1973	and 24 CFR 58.6(a)
in National Flood Insurance Program and flood	as amended (42 USC	and (b); 24 CFR
insurance is both obtained and maintained.	4001-4128)	55.1(b).

# 1. Does this project involve <u>financial assistance for construction, rehabilitation, or</u> <u>acquisition of a mobile home, building, or insurable personal property</u>?

No. This project does not require flood insurance or is excepted from flood insurance.

✓ Yes

#### 2. Upload a FEMA/FIRM map showing the site here:

#### FEMA NFHL.pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The <u>FEMA</u> <u>Map Service Center</u> provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

#### Is the structure, part of the structure, or insurable property located in a FEMAdesignated Special Flood Hazard Area?

✓ No

Based on the response, the review is in compliance with this section.

Yes

4. While flood insurance is not mandatory for this project, HUD strongly recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). Will flood insurance be required as a mitigation measure or condition?

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Yes

✓ No

#### Screen Summary

#### **Compliance Determination**

The subject property is located in Unshaded Zone X (Outside the 100 and 500-year floodplains) as delineated on the FEMA FIRM Map Number 48485C0180G effective date February 2, 2010. Flood insurance is not required, and the project is in compliance with the flood insurance requirements.

#### Supporting documentation

FM48485C0180G.pdf FEMA\_NFHL(1).pdf Community Status.pdf

#### Are formal compliance steps or mitigation required?

Yes

✓ No

## Air Quality

General requirements	Legislation	Regulation
The Clean Air Act is administered	Clean Air Act (42 USC 7401 et	40 CFR Parts 6, 51
by the U.S. Environmental	seq.) as amended particularly	and 93
Protection Agency (EPA), which	Section 176(c) and (d) (42 USC	
sets national standards on	7506(c) and (d))	
ambient pollutants. In addition,		
the Clean Air Act is administered		
by States, which must develop		
State Implementation Plans (SIPs)		
to regulate their state air quality.		
Projects funded by HUD must		
demonstrate that they conform		
to the appropriate SIP.		

# **1.** Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

✓ Yes

No

## Air Quality Attainment Status of Project's County or Air Quality Management District

# 2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

✓ No, project's county or air quality management district is in attainment status for all criteria pollutants.

Yes, project's management district or county is in non-attainment or maintenance status for the following criteria pollutants (check all that apply):

#### Screen Summary

#### **Compliance Determination**

The subject property is located in Wichita County which is in attainment with all criteria pollutants according to the National Ambient Air Quality Standards (NAAQS).

#### Supporting documentation

EPA-TEXAS\_Nonattainment areas\_List\_07312024.pdf

## EPA- TEXAS\_Nonattainment areas\_Map\_07312024.pdf

### Are formal compliance steps or mitigation required?

Yes

✓ No

## **Coastal Zone Management Act**

General requirements	Legislation	Regulation
Federal assistance to applicant	Coastal Zone Management	15 CFR Part 930
agencies for activities affecting	Act (16 USC 1451-1464),	
any coastal use or resource is	particularly section 307(c)	
granted only when such	and (d) (16 USC 1456(c) and	
activities are consistent with	(d))	
federally approved State		
Coastal Zone Management Act		
Plans.		

#### 1. Is the project located in, or does it affect, a Coastal Zone as defined in your state **Coastal Management Plan?**

Yes

 $\checkmark$ No

Gardens

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

#### Screen Summary

#### **Compliance Determination**

This project is not located in or does not affect a Coastal Zone as defined in the state Coastal Management Plan. The project is in compliance with the Coastal Zone Management Act.

#### Supporting documentation

#### Coastal Mgmt Zone.pdf

#### Are formal compliance steps or mitigation required?

Yes

✓ No

## **Contamination and Toxic Substances**

General Requirements	Legislation	Regulations	
It is HUD policy that all properties that are being proposed for use in HUD programs be free of		24 CFR 58.5(i)(2)	
hazardous materials, contamination, toxic chemicals and gases, and radioactive substances,		24 CFR 50.3(i)	
where a hazard could affect the health and safety of the occupants or conflict with the intended			
utilization of the property.			
Reference			
https://www.onecpd.info/environmental-review/site-contamination			

#### 1. How was site contamination evaluated?\* Select all that apply.

- ✓ ASTM Phase I ESA
- ✓ ASTM Phase II ESA
- ✓ Remediation or clean-up plan
- ✓ ASTM Vapor Encroachment Screening.
  - None of the above

\* HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

# 2. Were any on-site or nearby toxic, hazardous, or radioactive substances\* (excluding radon) found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

Provide a map or other documentation of absence or presence of contamination\*\* and explain evaluation of site contamination in the Screen Summary at the bottom of this screen.

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No

Explain:

✓ Yes

\* This question covers the presence of radioactive substances excluding radon. Radon is addressed in the Radon Exempt Question.

\*\* Utilize EPA's Enviromapper, NEPAssist, or state/tribal databases to identify nearby dumps, junk yards, landfills, hazardous waste sites, and industrial sites, including EPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. Additional supporting documentation may include other inspections and reports.

# 3. Evaluate the building(s) for radon. Do all buildings meet any of the exemptions\* from having to consider radon in the contamination analysis listed in CPD Notice <u>CPD-23-103</u>?

Yes

Explain:

🗸 No

\* Notes:

• Buildings with no enclosed areas having ground contact.

• Buildings containing crawlspaces, utility tunnels, or parking garages would not be exempt, however buildings built on piers would be exempt, provided that there is open air between the lowest floor of the building and the ground.

• Buildings that are not residential and will not be occupied for more than 4 hours per day.

• Buildings with existing radon mitigation systems - document radon levels are below 4 pCi/L with test results dated within two years of submitting the application for HUD assistance and document the system includes an ongoing maintenance plan that includes periodic testing to ensure the system continues to meet the current EPA recommended levels. If the project does not require an application, document test results dated within two years of the date the environmental review is certified. Refer to program office guidance to ensure compliance with program requirements.

• Buildings tested within five years of the submission of application for HUD assistance: test results document indoor radon levels are below current the EPA's recommended action levels of 4.0 pCi/L. For buildings with test data older than five years, any new environmental review must include a consideration of radon using one of the methods in Section A below.

#### 4. Is the proposed project new construction or substantial rehabilitation where testing will

#### be conducted but cannot yet occur because building construction has not been completed?

✓ Yes

Compliance with this section is conditioned on post-construction testing being conducted, followed by mitigation, if needed. Radon test results, along with any needed mitigation plan, must be uploaded to the mitigation section within this screen.

No

#### 8. Mitigation

Document the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental impacts cannot be mitigated, then HUD assistance may not be used for the project at this site.

For instances where radon mitigation is required (i.e. where test results demonstrated radon levels at 4.0 pCi/L and above), then you must include a radon mitigation plan\*.

#### Can all adverse environmental impacts be mitigated?

No, all adverse environmental impacts cannot feasibly be mitigated. Project cannot proceed at this location.

 Yes, all adverse environmental impacts can be eliminated through mitigation, and/or consideration of radon and radon mitigation, if needed, will occur following construction.
Provide all mitigation requirements\*\* and documents in the Screen Summary at the bottom of this screen.

\* Refer to CPD Notice <u>CPD-23-103</u> for additional information on radon mitigation plans. \*\* Mitigation requirements include all clean-up requirements required by applicable federal, state, tribal, or local law. Additionally, please upload, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

9. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls\*, or use of institutional controls\*\*.

The property has been entered into the TCEQ Industrial Hazardous Waste
Corrective Action (IHW-CA) program. Ongoing investigations are underway with oversight by TCEQ. The project's environmental consultant, HKC & Associates is recommending Risk-based corrective action (RBCA) with incomplete removal of contamination. Recommended mitigation includes: 1) utilizing impervious concrete parking, drive areas and building foundations to minimize direct soil contact with contaminated soils, 2) soil vapor barriers beneath future structures to reduce potential for vapor intrusion into the buildings, and 3) groundwater monitoring for one year to ensure groundwater remains protective of human health and the environment.

If a remediation plan or clean-up program was necessary, which standard does it follow?

Complete removal

✓ Risk-based corrective action (RBCA)

Other

\* Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, caps, covers, dikes, trenches, leachate collection systems, radon mitigation systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, slurry walls and ground water pumping systems.

\*\* Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

# Screen Summary

# **Compliance Determination**

A Phase I Environmental Site Assessment (ESA), prepared by Phase Engineering, LLC, was completed for the subject property dated February 22, 2022. The ESA report was completed in accordance with the ASTM Standard Practice E1527-21, the EPA Rule on All Appropriate Inquiries and HUD's policy at 24 CFR 58.5(i)(2). The assessment revealed a recognized environmental condition (REC) and vapor encroachment condition (VEC) in connection with the property due to historical use of the property and adjoining properties as an oil / gas refinery from the early 1940s to mid-1980s. A Limited Subsurface Investigation/Phase II ESA was completed for the subject

property by Phase Engineering, LLC dated September 30, 2022. The purpose of the Phase II ESA was to evaluate the presence of chemicals of concern (COC) within the soils and groundwater as a result of potential release of hazardous substances or petroleum products due to the historic oil / gas refinery. Five (5) soil borings were completed to a depth of 12-18 feet in select areas of the property most likely to have been affected by an undocumented release by the former uses of the subject property and adjoining properties. Soil samples were collected from the borings prior to converting them to temporary monitoring wells for the collection of groundwater samples. In addition, four soil vapor monitoring ports were installed in select areas for the purpose of collecting soil vapor samples. Laboratory analysis of the samples collected reported evidence of petroleum products and metals in the soil and groundwater above their respective regulatory action levels. In addition, the soil vapor analytical results indicate there is potential for vapor intrusion in two locations on the subject property. The concentrations of petroleum hydrocarbons and metals in the soil and groundwater represent a reportable release and subject to reporting under the Texas Risk Reduction Program (TRRP) and the potential for vapor intrusion requires mitigation for any future onsite structures. An Affected Property Assessment Report (APAR) was prepared by HKC & Associates and submitted to the TCEQ in December 2023. The property was entered into the TCEQ Industrial Hazardous Waste Corrective Action (IHW-CA) program with case number T3840. Ongoing investigations are underway with oversight by TCEQ. The project's environmental consultant, HKC & Associates is recommending Risk-based corrective action (RBCA) with incomplete removal of contamination. Recommended mitigation includes: 1) utilizing impervious concrete parking, drive areas and building foundations to minimize direct soil contact with contaminated soils, 2) soil vapor barriers beneath future structures to reduce potential for vapor intrusion into the buildings, and 3) groundwater monitoring for one year to ensure groundwater remains protective of human health and the environment. The file is currently active and undergoing review and oversight by the TCEQ. Final review and approval by TCEQ is pending. Radon testing data from the CDC Environmental Public Health Tracking Network map shows data for Wichita County, which is the smallest area for which data is available. The radon data indicates more than 10 tests have been conducted over the last 10 years with an annual mean pre-mitigation radon measurement of 0.8 pCi/L. Science-based data is available for the project area which documents low potential for indoor radon levels above the EPA recommended action level of 4.0 pCi/L.

# Supporting documentation

<u>08 IHWCA\_T3840\_OUT\_20250321\_COMMENTS.pdf</u> <u>08 IHW CA 3840 RAP 25 02 26.pdf</u> <u>08 IHW CA 3840 RAP 25 02 26.pdf</u>

# CDC Radon map Witchita.pdf

202201183 South of Williams Drive BURKBURNETT TDHCA Phase 1.pdf IHW\_CA 3840 APAR UPDATE2 24\_08\_12.pdf 202209001 South of Williams Drive BURKBURNETT PII.pdf

# Are formal compliance steps or mitigation required?

✓ Yes

No

# **Endangered Species**

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA)	The Endangered	50 CFR Part
mandates that federal agencies ensure that	Species Act of 1973	402
actions that they authorize, fund, or carry out	(16 U.S.C. 1531 et	
shall not jeopardize the continued existence of	seq.); particularly	
federally listed plants and animals or result in	section 7 (16 USC	
the adverse modification or destruction of	1536).	
designated critical habitat. Where their actions		
may affect resources protected by the ESA,		
agencies must consult with the Fish and Wildlife		
Service and/or the National Marine Fisheries		
Service ("FWS" and "NMFS" or "the Services").		

# **1.** Does the project involve any activities that have the potential to affect specifies or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office

 ✓ Yes, the activities involved in the project have the potential to affect species and/or habitats.

# 2. Are federally listed species or designated critical habitats present in the action area?

No, the project will have No Effect due to the absence of federally listed species and designated critical habitat

✓ Yes, there are federally listed species or designated critical habitats present in the action area.

# 3. What effects, if any, will your project have on federally listed species or designated critical habitat?

✓ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat. in the action area.

Document and upload all documents used to make your determination below. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate

May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review. If negative effects cannot be mitigated, cancel the project using the button at the bottom of this screen.

Mitigation as follows will be implemented:

✓ No mitigation is necessary.

Explain why mitigation will not be made here:

No effect on federally listed species or designated critical habitat.

<u>Screen Summary</u> Compliance Determination

A request was submitted to the U.S. Fish & Wildlife Service (USFWS) to identify Endangered and Threatened Species and Critical Habitat in the project area. Review of the official list provided by the USFWS identified five (6) threatened, endangered, or candidate species known to occur in the county. The property or nearby properties do not include critical habitat. Two of the protected species include migrating birds which must be evaluated for wind energy-related projects only, which does not include the proposed project. The two listed mammals are the Texas kangaroo Rat and Tricolored Bat which both require vegetation for roosting and burrowing, the project location is cleared of all vegetation; therefore, is not suitable for these species. The Whooping Crane and Monarch Butterfly will not be affected since the subject property is already cleared with no vegetation to attract these species. No habitat for any of the listed species occur on or near the property and none of the species are likely to be found on the property. A review of each species' habitat and why none will be impacted by the project can be found in the supporting documentation. A review of state-listed and known reported occurrences of threatened or endangered species in the project vicinity was completed by consultation with the Texas Natural Diversity Database (TXNDD) and Texas Parks and Wildlife Department. Results of the inquiry determined that the subject property is within the Texas kangaroo Bat and River Pupfish known areas of occurrence; however, there is no suitable habitat on the subject property for either of these species. As proposed, the project will have No Effect on federally listed species.

# Supporting documentation

<u>Wichita County\_April 2024.pdf</u> <u>TXNDDmap.pdf</u> <u>Species List\_Arlington Ecological Services Field Office.pdf</u> <u>Critical Habitat.pdf</u>

#### Are formal compliance steps or mitigation required?

Yes

# **Explosive and Flammable Hazards**

General requirements	Legislation	Regulation
HUD-assisted projects must meet	N/A	24 CFR Part 51
Acceptable Separation Distance (ASD)		Subpart C
requirements to protect them from		
explosive and flammable hazards.		

**1.** Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

✓ No

Yes

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

No

✓ Yes

3. Within 1 mile of the project site, are there any current or planned stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:

• Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR

• Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.

If all containers within the search area fit the above criteria, answer "No." For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer "Yes."

No

✓ Yes

# 4. Based on the analysis, is the proposed HUD-assisted project located at or beyond the required separation distance from all covered tanks?

✓ Yes

Based on the response, the review is in compliance with this section.

No

# Screen Summary

# **Compliance Determination**

The subject property is not a hazardous facility. Several off-site explosive or flammable hazards were identified including a 500-gallon propane tank, a diked diesel tank, and a 1,700-gallon produced water tank. Each of these hazards were determined to be located at an Acceptable Separation Distance (ASD) from the subject property based on calculations from HUD's Acceptable Separation Distance tool. No other hazards were identified. The project is in compliance with explosive and flammable hazard requirements.

# Supporting documentation

# Explosive and Flammable Assessment.pdf

# Are formal compliance steps or mitigation required?

Yes

# **Farmlands Protection**

General requirements	Legislation	Regulation
The Farmland Protection	Farmland Protection Policy	<u>7 CFR Part 658</u>
Policy Act (FPPA) discourages	Act of 1981 (7 U.S.C. 4201	
federal activities that would	et seq.)	
convert farmland to		
nonagricultural purposes.		

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

✓ Yes

No

# 2. Does your project meet one of the following exemptions?

- Construction limited to on-farm structures needed for farm operations.
- Construction limited to new minor secondary (accessory) structures such as a garage or storage shed
- Project on land already in or committed to urban development or used for water storage. (7 CFR 658.2(a))

Yes

✓ No

# 3. Does "important farmland," including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?

- Utilize USDA Natural Resources Conservation Service's (NRCS) Web Soil Survey
   <u>http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm</u>
- Check with your city or county's planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center <u>http://offices.sc.egov.usda.gov/locator/app?agency=nrcs</u> or your NRCS state soil scientist <u>https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/contact/states/</u> for assistance

✓ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Yes

# Screen Summary

# **Compliance Determination**

The project will Include new construction on currently undeveloped land within the Burkburnett Urban Area. However, the property does not meet the definition of farmland per the Farmland Protection Policy Act (FPPA) Since it is located within an "urbanized area (UA)" per the US Census Bureau TigerWeb Map. In addition, all soils for the subject property area are not considered prime farmland per the NRCS Web Soil Survey. This project is exempt from provisions of the Farmland Protection Policy Act and is in compliance with this part.

# Supporting documentation

<u>Urban\_Areas.pdf</u> 20240419\_09054309038\_8\_Farmland\_Classification.pdf

# Are formal compliance steps or mitigation required?

Yes

# **Floodplain Management**

General Requirements	Legislation	Regulation
Executive Order 11988,	Executive Order 11988	24 CFR 55
Floodplain Management,	* Executive Order 13690	
requires Federal activities to	* 42 USC 4001-4128	
avoid impacts to floodplains	* 42 USC 5154a	
and to avoid direct and	* only applies to screen 2047	
indirect support of floodplain	and not 2046	
development to the extent		
practicable.		

**1.** Does this project meet an exemption at 24 CFR 55.12 from compliance with HUD's floodplain management regulations in Part 55?

Yes

(a) HUD-assisted activities described in 24 CFR 58.34 and 58.35(b).

(b) HUD-assisted activities described in 24 CFR 50.19, except as otherwise indicated in § 50.19.

(c) The approval of financial assistance for restoring and preserving the natural and beneficial functions and values of floodplains and wetlands, including through acquisition of such floodplain and wetland property, where a permanent covenant or comparable restriction is place on the property's continued use for flood control, wetland projection, open space, or park land, but only if:

(1) The property is cleared of all existing buildings and walled structures; and

(2) The property is cleared of related improvements except those which:

(i) Are directly related to flood control, wetland protection, open space, or park land (including playgrounds and recreation areas);

(ii) Do not modify existing wetland areas or involve fill, paving, or other ground disturbance beyond minimal trails or paths; and

(iii) Are designed to be compatible with the beneficial floodplain or wetland function of the property.

(d) An action involving a repossession, receivership, foreclosure, or similar acquisition of property to protect or enforce HUD's financial interests under previously approved loans, grants, mortgage insurance,

or other HUD assistance.

(e) Policy-level actions described at 24 CFR 50.16 that do not involve site-based decisions.

(f) A minor amendment to a previously approved action with no additional adverse impact on or from a floodplain or wetland.

(g) HUD's or the responsible entity's approval of a project site, an incidental portion of which is situated in the FFRMS floodplain (not including the floodway, LiMWA, or coastal high hazard area) but only if: (1) The proposed project site does not include any existing or proposed buildings or improvements that modify or occupy the FFRMS floodplain except de minimis improvements such as recreation areas and trails; and (2) the proposed project will not result in any new construction in or modifications of a wetland .

(h) Issuance or use of Housing Vouchers, or other forms of rental subsidy where HUD, the awarding community, or the public housing agency that administers the contract awards rental subsidies that are not project-based (i.e., do not involve site-specific subsidies).

(i) Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.

Describe:

✓ No

2. Does the project include a Critical Action? Examples of Critical Actions include projects involving hospitals, fire and police stations, nursing homes, hazardous chemical storage, storage of valuable records, and utility plants.

Yes

Describe:

🗸 No

**3.** Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information<sup>1</sup> to determine flood elevation. Include documentation and an explanation of why this is the best available information<sup>2</sup> for the site. Note that newly constructed and substantially improved<sup>3</sup> structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

Select one of the following three options:

CISA for non-critical actions. If using a local tool , data, or resources, ensure that the FFRMS elevation is higher than would have been determined using the 0.2 PFA or the FVA.

✓ 0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. If neither CISA nor 0.2-PFA is available, for non-critical actions, the FFRMS floodplain is the area that results from adding two feet to the base flood elevation as established by the effective FIRM or FIS or — if available — a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

<sup>1</sup> Sources which merit investigation include the files and studies of other federal agencies, such as the U. S. Army Corps of Engineers, the Tennessee Valley Authority, the Soil Conservation Service and the U. S. Geological Survey. These agencies have prepared flood hazard studies for several thousand localities and, through their technical assistance programs, hydrologic studies, soil surveys, and other investigations have collected or developed other floodplain information for numerous sites and areas. States and communities are also sources of information on past flood 'experiences within their boundaries and are particularly knowledgeable about areas subject to high-risk flood hazards such as alluvial fans, high velocity flows, mudflows and mudslides, ice jams, subsidence and liquefaction.

<sup>2</sup> If you are using best available information, select the FVA option below and provide supporting documentation in the screen summary. Contact your <u>local environmental officer</u> with additional compliance questions.

<sup>3</sup> Substantial improvement means any repair or improvement of a structure which costs at least 50 percent of the market value of the structure before repair or improvement or results in an increase of more than 20 percent of the number of dwelling units. The full definition can be found at <u>24 CFR 55.2(b)(12)</u>.

5. Does your project occur in the FFRMS floodplain?

Yes

✓ No

# Screen Summary

# **Compliance Determination**

This project does not occur in the FFRMS floodplain. CISA reports are only available for coastal areas. The project is in compliance with Executive Orders 11988 and 13690.

# Supporting documentation

<u>FM48485C0180G(1).pdf</u> <u>FEMA\_NFHL(2).pdf</u>

# Are formal compliance steps or mitigation required?

Yes

✓ No

Burkburnett-Royal- Gardens	Burkburn	ett, TX 90000010427327
Historic Preservatio	on	
General requirements	Legislation	Regulation
Regulations under	Section 106 of the	36 CFR 800 "Protection of Historic
Section 106 of the	National Historic	Properties"
National Historic	Preservation Act	https://www.govinfo.gov/content/pkg/CF
Preservation Act	(16 U.S.C. 470f)	R-2012-title36-vol3/pdf/CFR-2012-title36-
(NHPA) require a		vol3-part800.pdf
consultative process		
to identify historic		
properties, assess		
project impacts on		

#### Threshold

them, and avoid, minimize, or mitigate

adverse effects

#### Is Section 106 review required for your project?

No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.) No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

✓ Yes, because the project includes activities with potential to cause effects (direct or indirect).

#### Step 1 – Initiate Consultation

Select all consulting parties below (check all that apply):

- ✓ State Historic Preservation Offer (SHPO) Completed
- ✓ Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native Hawaiian Organizations (NHOs)

✓ Apache Tribe of Oklahoma	Response Period Elapsed
----------------------------	-------------------------

✓ Caddo Nation of Oklahoma
 ✓ Comanche Nation, Oklahoma

Response Period Elapsed Response Period Elapsed Response Period Elapsed

Burkburnett-Royal- Gardens	Burkburnett, TX	90000010427327
<ul> <li>✓ Tonkawa Tribe of Indians of</li> <li>Oklahoma</li> <li>✓ Wichita and Affiliated Tribes</li> </ul>	Response Period Elapsed	
<ul> <li>Other Consulting Parties</li> </ul>	Response Periou Elapseu	
✓ Witchita County Historical County	ommission Response Per	iod Elapsed

# Describe the process of selecting consulting parties and initiating consultation here:

The local consulting party was identified by consulting the most current list of Certified Local Government (CLG) Program Contact List or County Historical Commission Chairs, as listed on the Texas Historical Commission's website. If a contact is not listed, then a local historical preservation office / person was identified by consulting the city or county directly.

Document and upload all correspondence, notices and notes (including comments and objections received below).

# Was the Section 106 Lender Delegation Memo used for Section 106 consultation?

Yes	
No	

# Step 2 – Identify and Evaluate Historic Properties

 Define the Area of Potential Effect (APE), either by entering the address(es) or uploading a map depicting the APE below: Subject property and all areas within a 100-foot buffer of the property.

# In the chart below, list historic properties identified and evaluated in the APE. Every historic property that may be affected by the project should be included in the chart.

Upload the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination

below.

Address / Location	National Register	SHPO Concurrence	Sensitive
/ District	Status		Information

#### **Additional Notes:**

No historic properties were identified within the APE.

2. Was a survey of historic buildings and/or archeological sites done as part of the project?

Yes

✓ No

#### Step 3 –Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (<u>36 CFR 800.5</u>)] Consider direct and indirect effects as applicable as per guidance on <u>direct and indirect effects</u>.

# Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

✓ No Historic Properties Affected

Based on the response, the review is in compliance with this section. Document and upload concurrence(s) or objection(s) below.

#### **Document reason for finding:**

✓ No historic properties present.

Historic properties present, but project will have no effect upon them.

No Adverse Effect

Adverse Effect

#### Screen Summary

#### **Compliance Determination**

On behalf of the TDHCA , A request for Section 106 review was sent to the SHPO on September 1, 2022, by Phase Engineering LLC, with a follow up email sent on April 18, 2024, regarding a boundary change. The SHPO / Texas Historical Commission (THC) responded on May 10, 2024, indicating no historic properties present or affected considering both above-ground resources and archeology resources. However, if buried cultural materials are encountered, work should cease in the immediate area; work can continue where no cultural materials are present. Please contact the THC's Archology Division at 512-463-6096 to consult on further actions that may be necessary to protect the cultural remains.'' An invitation to consult was submitted to the Wichita County Historical Commission on April 18, 2024. To-date, no response from this office has been received. Five (5) Native American tribes have shown an interest in new developments within Wichita County according to HUD's Tribal Directory Assessment Tool (TDAT). Consultation with all six of the tribes was initiated by letters from TDHCA on September 6, 2022. To-date no responses have been received from tribal consultations and the consultation period has expired.

#### Supporting documentation

<u>Tribal Consultations\_Burkburnett\_ALL.pdf</u> <u>SHPO\_CONCURRENCE.pdf</u> <u>Sec106\_Burkburnett.pdf</u>

#### Are formal compliance steps or mitigation required?

Yes

# **Noise Abatement and Control**

General requirements	Legislation	Regulation
HUD's noise regulations protect	Noise Control Act of 1972	Title 24 CFR 51
residential properties from		Subpart B
excessive noise exposure. HUD	General Services Administration	
encourages mitigation as	Federal Management Circular	
appropriate.	75-2: "Compatible Land Uses at	
	Federal Airfields"	

# 1. What activities does your project involve? Check all that apply:

✓ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

Rehabilitation of an existing residential property

A research demonstration project which does not result in new construction or reconstruction

An interstate land sales registration

Any timely emergency assistance under disaster assistance provision or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster None of the above

4. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

There are no noise generators found within the threshold distances above.

✓ Noise generators were found within the threshold distances.

#### 5. Complete the Preliminary Screening to identify potential noise generators in the

 ✓ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: 48

Based on the response, the review is in compliance with this section. Document and upload noise analysis, including noise level and data used to complete the analysis below.

Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Unacceptable: (Above 75 decibels)

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels.

Check here to affirm that you have considered converting this property to a non-residential use compatible with high noise levels.

Indicate noise level here: 48

Document and upload noise analysis, including noise level and data used to complete the analysis below.

#### Screen Summary

#### **Compliance Determination**

A noise study prepared for the proposed development identified a railroad as the only noise generating feature within the preliminary search distances from the subject property. Based on the site plan, the outdoor amenities, and the eastern facade of the residential building will be the closest noise-sensitive receptors to the railroad, thus it was selected as a Noise Assessment Location (NAL) for the analysis. HUD's Day/Night

Noise Level (DNL) Electronic Assessment Tool, was utilized to measure the noise level at this location. \* NAL #1 - Outdoor Amenities: 48 dB -Acceptable \* NAL #2 - Eastern Facade of Building: 48 dB -Acceptable The calculated noise value for the selected NAL falls within the range of below 65 dB, which is considered "Acceptable" based on the HUD guidelines. Within this range, the site is considered in compliance.

#### Supporting documentation

# Noise Assesment.pdf

#### Are formal compliance steps or mitigation required?

Yes

# Sole Source Aquifers

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974	Safe Drinking Water	40 CFR Part 149
protects drinking water systems	Act of 1974 (42 U.S.C.	
which are the sole or principal	201, 300f et seq., and	
drinking water source for an area	21 U.S.C. 349)	
and which, if contaminated, would		
create a significant hazard to public		
health.		

**1.** Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

Yes

✓ No

# 2. Is the project located on a sole source aquifer (SSA)?

A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

✓ No

Based on the response, the review is in compliance with this section. Document and upload documentation used to make your determination, such as a map of your project (or jurisdiction, if appropriate) in relation to the nearest SSA and its source area, below.

Yes

# Screen Summary

# **Compliance Determination**

The project is not located on a sole source aquifer area. The project is in compliance with Sole Source Aquifer requirements.

# Supporting documentation

# TX 21SoleSourceAquiferRechargeArea.pdf

# Are formal compliance steps or mitigation required?

Yes

# Wetlands Protection

General requirements	Legislation	Regulation
Executive Order 11990 discourages direct or	Executive Order	24 CFR 55.20 can be
indirect support of new construction impacting	11990	used for general
wetlands wherever there is a practicable		guidance regarding
alternative. The Fish and Wildlife Service's		the 8 Step Process.
National Wetlands Inventory can be used as a		
primary screening tool, but observed or known		
wetlands not indicated on NWI maps must also		
be processed Off-site impacts that result in		
draining, impounding, or destroying wetlands		
must also be processed.		

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order

No

# ✓ Yes

2. Will the new construction or other ground disturbance impact an on- or off-site wetland? The term "wetlands" means those areas that are inundated by surface or ground water with a frequency sufficient to support, and under normal circumstances does or would support, a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, river overflows, mud flats, and natural ponds.

"Wetlands under E.O. 11990 include isolated and non-jurisdictional wetlands."

✓ No, a wetland will not be impacted in terms of E.O. 11990's definition of new construction.

Based on the response, the review is in compliance with this section. Document and upload a map or any other relevant documentation below which explains your determination

Yes, there is a wetland that be impacted in terms of E.O. 11990's definition of new construction.

# Screen Summary

#### **Compliance Determination**

Based on a review of the National Wetlands Inventory (NWI) map, there are no mapped wetland areas on the subject property. An on-site review of the subject property found no wetland areas on the property and no adjacent wetlands areas. Since no wetland areas will be impacted, this project is in compliance with Executive Order 11990.

#### Supporting documentation

Wetland.pdf

#### Are formal compliance steps or mitigation required?

Yes

# Wild and Scenic Rivers Act

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act	The Wild and Scenic Rivers	36 CFR Part 297
provides federal protection for	Act (16 U.S.C. 1271-1287),	
certain free-flowing, wild, scenic	particularly section 7(b) and	
and recreational rivers	(c) (16 U.S.C. 1278(b) and (c))	
designated as components or		
potential components of the		
National Wild and Scenic Rivers		
System (NWSRS) from the effects		
of construction or development.		

# 1. Is your project within proximity of a NWSRS river?

✓ No

Yes, the project is in proximity of a Designated Wild and Scenic River or Study Wild and Scenic River.

Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

# Screen Summary

# **Compliance Determination**

This project is not within proximity of a NWSRS river. The project is in compliance with the Wild and Scenic Rivers Act.

# Supporting documentation

# <u>Wild\_Scenic\_Rivers.pdf</u> National\_Rivers\_Inventory.pdf

# Are formal compliance steps or mitigation required?

Yes

# **Environmental Justice**

General requirements	Legislation	Regulation
Determine if the project	Executive Order 12898	
creates adverse environmental		
impacts upon a low-income or		
minority community. If it		
does, engage the community		
in meaningful participation		
about mitigating the impacts		
or move the project.		

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

# **1.** Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

Yes

✓ No

Based on the response, the review is in compliance with this section.

#### Screen Summary

#### **Compliance Determination**

No adverse environmental impacts were identified in the project's total environmental review. The project is in compliance with Executive Order 12898.

# Supporting documentation

# EJScreen Community Report.pdf

# Are formal compliance steps or mitigation required?

Yes





# **Topographic Map**

The U.S. Geological Survey (USGS) produced its first topographic map in 1879, the same year it was established. Today, more than 100 years and millions of map copies later, topographic mapping is still a central activity for the USGS. The topographic map remains an indispensable tool for government, science, industry, and leisure.

Topographic maps usually portray both natural and manmade features. They show and name works of nature including mountains, valleys, plains, lakes, rivers, and vegetation. They also identify the principal works of man, such as roads, boundaries, transmission lines, and major buildings. The colors represent the following: Contours - brown, Hydrography - blue, Public Land Survey System and other surveys - red, Updates - purple/magenta, Miscellaneous - black, and Vegetation - green.

USGS 7.5 Minute Topographic Series Burkburnett, 2019



PEI Project No: 202208134







View west along the northern property boundary



East adjoining property (undeveloped land)



View north along the eastern property boundary



View northeast across subject property



South adjoining property (Overton Ray Elementary School)



View east along the southern property boundary





View south along the western property boundary

West adjoining property (single-family residential property)



\* The National Ambient Air Quality Standards (NAAQS) are health standards for Carbon Monoxide, Lead (1978 and 2008), Nitrogen Dioxide, 8-hour Ozone (2008), Particulate Matter (PM-10 and PM-2.5 (1997, 2006 and 2012), and Sulfur Dioxide.(1971 and 2010)

\*\* Included in the counts are counties designated for NAAQS and revised NAAQS pollutants. Revoked 1-hour (1979) and 8-hour Ozone (1997) are excluded. Partial counties, those with part of the county designated nonattainment and part attainment, are shown as full counties on the map.

# **Current Nonattainment Counties for All Criteria Pollutants – Texas**

As of July 31, 2024 Listed by State, County then Pollutant - \* Part County NA

<u>TEXAS</u>

Anderson County

Sulfur Dioxide (2010)	*	Freestone and Anderson Counties, TX
Bexar County		
8-Hour Ozone (2015)		San Antonio, TX - (Serious)
<u>Brazoria County</u>		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)
Chambers County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)
<u>Collin County</u>		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
Dallas County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
Denton County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
<u>El Paso County</u>		
PM-10 (1987) *	El Paso	County, TX - (Moderate)
8-Hour Ozone (2015)		El Paso-Las Cruces, TX-NM - (Marginal)
Ellis County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
# **Current Nonattainment Counties for All Criteria Pollutants – Texas**

As of July 31, 2024 Listed by State, County then Pollutant - \* Part County NA

Fort Bend County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)
Freestone County		
Sulfur Dioxide (2010)	*	Freestone and Anderson Counties, TX
Galveston County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)
Harris County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)
Howard County		
Sulfur Dioxide (2010)	*	Howard County, TX
Hutchinson County		
Sulfur Dioxide (2010)	*	Hutchinson County, TX
Johnson County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
<u>Kaufman County</u>		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
Liberty County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
Montgomery County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015)		Houston-Galveston-Brazoria, TX - (Serious)

# **Current Nonattainment Counties for All Criteria Pollutants – Texas**

As of July 31, 2024 Listed by State, County then Pollutant - \* Part County NA

Navarro County

Sulfur Dioxide (2010)	*	Navarro County, TX
Panola County		
Sulfur Dioxide (2010)	*	Rusk and Panola Counties, TX
Parker County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
Rockwall County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
Rusk County		
Sulfur Dioxide (2010)	*	Rusk and Panola Counties, TX
Tarrant County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)
Titus County		
Sulfur Dioxide (2010)	*	Titus County, TX
Waller County		
8-Hour Ozone (2008)		Houston-Galveston-Brazoria, TX - (Severe 15)
Wise County		
8-Hour Ozone (2008)		Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015)		Dallas-Fort Worth, TX - (Serious)







# John H. Chafee Coastal Barrier Resources System (CBRS)

This Coastal Barrier Resources Act (CBRA) of 1982 and subsequent amendments established the John H. Chafee Coastal Barrier Resources System (CBRS). The CBRS consists of relatively undeveloped coastal barriers and other areas located along the Atlantic, Gulf of Mexico,





PE Project No: 202402008





### **Coastal Zone Management Act Boundary** for the United States and US Territories

This data represents the extent of the nation's coastal zone as defined by the individual states and territiries under the Coastal Zone Management Act of 1972 (CZMA). The CZMA was established to preserve, protect, develop, and where possible, to restore or enhance the resources of the nation's coastal zone. The zone generally extends seaward to the boundary of the Submerged Lands Act. State jurisdiction extends to 3nm, except for Texas, Puerto Rico and florida's Gulf coast extends to 9 nm.





PE Project No: 202402008

# Texas Commission on Environmental Quality Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION							
	SITE	LOCAT	ION		REMEDIATION DIVISION PROGRAM AND FACI IDENTIFICATION		
Site Name:	Approximate	ly 5.0-Ac	eres of Vac	cant Land	Is This Site Being Managed Under A State Lead Contract?		
Address 1:	South of Wil	liams Dr	ive		Program Area:	IHW Corrective Action	
Address 2:					Mail Code:	MC-127 (IHW)	
Burkburne	ett		State:	Texas	Is This A New Site To This Program Area?		
Zip Code:	76354	County:	Wichita		Additional Information: IHW-CA 3840		
TCEQ Regio	n: Abilene -3				Additional Information:		

DOCUMENT(S) IDENTIFICATION						
PHASE OF REMEDIATION	DOCUMENT NAME					
1. Remediation	Priliminary Remedial Action Plan (RAP)					
2. Please select a phase of remediation						
3. Please select a phase of remediation						
4. Please select a phase of remediation						
5. Please select a phase of remediation						

CONTACT INFORMATION						
$\checkmark$ I attest that all work has been done in	n accordance with TCEQ rules	✓ I certify that I am awa	I certify that I am aware misrepresentation of any claim is a violation.			
RESPONSI	BLE PARTY/APPLICANT/CUST	<b>FOMER INFORMA</b>	ΓΙΟΝ (IF APP	LICABLE)		
Noorallah Jooma	Carrollton					
Burkburnett Royal Gardens	3,	(469) 855-6662				
PO Box 113267	Texas	noorjooma@	gmail.com			
	75011					
EN	VIRONMENTAL CONSULTA	NT/REPORT PREF	PARER/AGE	NT		
Hassan Chamseddin, PE	HKC & Associates, Inc.	Dallas		75234		
Hassan Chamseddin, PE	2655 Villa Creek Drive	hchamseddin@outlook.com		972-406-8039		
0238	Suite 205	Texas	Texas		972-406-8040	
Hassan Chamseddin, PE	0702	972-406-8039 hchamseddin@o		outlook.com		
HKC & Associates, Inc.		972-406-8040				
	SIGNA	TURES				
Unallah 1	OTMA Hik thansed	de Hikilharsed i				
Noorallah Jooma	2/26/25 Hassan Chamsed	din, PE 02/26/2	Hassan Ch	namseddin, PE	02/26/24	

DATABASE CODES							
Document No.	TCEQ Database Term	Document No.	TCEQ Database Term				
1.		4.					
2.		5.					
3.							

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY Response Action Plan

# **Cover Page**

X       Initial submittal for this on-site property       Subsequent submittal for this on-site property         Report date:       February 26, 2025       TCEQ Region No.:       3
TCEQ Program (check one)         X       Corrective Action (Mail Code 127)         Voluntary Cleanup Program (Mail Code 221)         RPR Section (Mail Code 137)
On-Site Property Information
On-Site Property Name: Approximately 5.0-Acres of Vacant Land
Street no. Pre dir: Street name Street type: Post dir:
City: Burkburnett County: Wichita County Code: 243 Zip: 76354
Drive
Latitude: Degrees, Minutes, Seconds OR Decimal Degrees (circle one) North34.086407Longitude: Degrees, Minutes, Seconds OR Decimal Degrees (circle one) West-98.575895
Off-Site Affected Property Information         Off-Site Affected Property Name:         Physical Address:         Street no.       Pre dir:         Street no.       Pre dir:         County:       County Code:         Zip:         X       Check if no off-site properties affected         Contact Person Information and Acknowledgement
Person (or company) Name: Burkburnett Royal Gardens
Contact Person: Mr. Noorallah Jooma Title:
Mailing Address:       P.O. Box 113267         City:       Carrollton       State:       TX       Zip:       75011       E-mail address noorjooma@gmail.com         Phone:       (469) 855-6662       Fax:       Fax:       Fax:       Fax:
By my signature below, I acknowledge the requirement of §350.2(a) that no person shall submit information to the executive director or to parties who are required to be provided information under this chapter which they know or reasonably should have known to be false or intentionally misleading, or fail to submit available information which is critical to the understanding of the matter at hand or to the basis of critical decisions which reasonably would have been influenced by that information. Violation of this rule may subject a person to the imposition of civil, criminal, or administrative penalties. Signature of Person

### **RAP Executive Summary**

Report Date: February 2025

Use this worksheet to summarize the report. Be sure to complete and submit the Checklist for Report Completeness. Attach a chronology of activities associated with the affected property.

Briefly describe the affected property and PCLE zones, the conclusions from the assessment activities, identify any affected or threatened receptors, and describe any other major considerations taken into account when developing this response action plan. If any portion of the response action is necessitated due to an aesthetic or nuisance condition, identify the nature of that condition and identify that portion of the response action proposed to address it. If any media that contains a PCLE zone is not addressed in this RAP, provide justification.

Burkburnett Royal Gardens, is the prospective purchaser of the ~ 5.0 Acres undeveloped land south of Williams Drive, Burkburnett, Wichita County, Texas (property), to develop the land as a multifamily housing that will be senior housing living apartments complex. The project is being funded by the US Department of House and Urban Development (HUD) which requested TCEQ approval of the proposed abatement measures described in this RAP, prior to releasing any funds for the project.

Currently, the responsible party (Burkburnett Royal Garden) does not own the property, and the project is in the preliminary design phase pending funding. The RP is seeking approval for the preliminary Response Action Plan (RAP) to be able to get the funds, complete the design of the project. Based on the completed design (buildings layout out, buildings footing, utilities locations, subsurface drainage system, concrete covered area, planters' areas, Etc..). The actual RAP will be prepared to be implemented. At this point of time, there are many variables that are undetermined.

The following is the plan to implement the following plans during construction:

**Health and Safety plan**- This plan shall identify all anticipated to encounter contaminants of concern (COCs), and the appropriate measures to be taken in case of encounter including chain of command, required OSHA training and certification, identification of personal protective equipment (PPE), determination of exclusion zones, decontamination zones and support zones, identification of decontamination and monitoring procedures.

**Engineering Controls**- Currently, there is no access to any of the impacted media. However, during construction, the soil will be disturbed during subsurface utilities installation which may provide exposure to the impacted media. Safe work practice with engineering controls will minimize any exposure such as no basement constructed, limiting the excavation depths to less than 10 ft. below grade and for subsurface utilities only. Using narrow buckets on excavation equipment for the necessary width of trenches. Installation of a geotechnical barrier on the surface before placing concrete for buildings floors.

**Remedial Action Plan**- This plan is to identify the procedures to handle any impacted soil that is excavated during the construction activities. The plan will include procedures for onsite storage, waste characterization, required laboratory analysis to determine appropriate transportation procedures and disposal location.

**Monitoring Program plan-** Upon completion of construction, a monitoring plan shall be implemented which includes procedures to inspect the geotechnical barrier, groundwater monitoring and any vapor monitoring if needed based on observed conditions during construction.

Based on the above, and due to the uncertainty, the following documentation, although required, are not provided in this RAP.

- Attachment 2A\* Response Action Diagrams and Component/Equipment Descriptions
- Attachment 2B\* Proposed Well Design
- Attachment 4A\* Map of Confirmation Sampling Points
- Appendix 3\* Studies and Tests Documentation
- Appendix 4\* Proposed Institutional Controls
- Appendix 5\* Landowner Concurrence

#### Summary

HKC & Associates, Inc. (HKC) utilized the previous subsurface investigation conducted by Phase Engineering LLC (PEL) to assist in the development of this assessment investigation conducted at the ±5.0-acre undeveloped agricultural land south of Williams Drive in Burkburnett, Wichita County, Texas (Property). HKC was retained by the prospective purchaser of the Property to develop the Property into multi-apartment senior housing residential properties.

Based on the subsurface Investigation, the soil analytical results identified TPH C<sub>6</sub>-C<sub>12</sub>, >C<sub>12</sub>-C<sub>28</sub>, Over C<sub>6</sub>-C<sub>8</sub> aliphatics, Over C<sub>12</sub>-C<sub>16</sub> aliphatics, Over C<sub>8</sub>-C<sub>10</sub> aromatics, Over C<sub>10</sub>-C<sub>12</sub> aromatics, Over C<sub>12</sub>-C<sub>16</sub> Bromodichloromethane, aromatics,  $C_{16}-C_{21}$ aromatics, Carbon tetrachloride, Over Dibromochloromethane, 1,2-Dibromo-3-Chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,1-Dichloropropene, trans-1,3-Dichloropropene, Naphthalene, N-Propylbenzene, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, and 2-Methylnaphthalene at concentrations greater than the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30-acre source area within the surface soils (0-15 feet bgs). In the subsurface soils only TPH > $C_{12}$ - $C_{28}$ had a concentration greater than the TCEQ Tier 1 Residential PCLs for a 30-acre source area in one soil sample (MW-2 from 24-25 feet bgs). All the other analytes were either less than the laboratory method detection limit or the TCEQ Tier 1 Residential PCL for a 30-acre source area. None of the TPH, VOCs, and/or SVOCs were detected in the groundwater at concentrations either above the laboratory method detection limit and/or Tier 1 Residential PCL and therefore, appear to be protective of groundwater. It is important to note the time of historical operation and the lack of constituents of concern (COCs) within the groundwater.

As part of PEL's and HKC's soil investigation at the Property the only metal with a concentration greater than the TCEQ TRRP Tier 1 Residential PCL for a 30 acre source area was lead. The highest soil concentration was observed in PEL's soil sample SB-4 (1-3 ft) with a concentration of 35.5 mg/kg. A background soil concentration was calculated for arsenic, barium, lead, and mercury on the adjacent Overton Ray Elementary School property (IHW ID No. T3497). The lead Tier 2 calculation from the adjacent Overton Ray Elementary School property was calculated as 650 mg/kg; therefore, the total soil combined PCL of 500 mg/kg was utilized as the Tier 1 Residential PCL.

The groundwater investigation did not identify any COCs above the Residential PCL in groundwater except barium in MW-5 during the initial groundwater sampling event. The barium concentration in

### **RAP Executive Summary**

**Report Date: February 2025** 

MW-5 was 5.53 mg/l which is greater than the TCEQ TRRP Tier 1 Residential PCL of 2.0 mg/l ( $^{GW}GW_{Ing}$ ). During the June 2024 groundwater sampling event, TPH C<sub>6</sub>-C<sub>12</sub> and barium were greater than the TCEQ TRRP Tier 1 applicable PCL in MW-5. The TPH C<sub>6</sub>-C<sub>12</sub> concentration in MW-5 was 2.13J. *HKC notes during future groundwater sampling events, if TPH is detected again. TPH 1006 will be run on the groundwater sample in order to establish a Tier 2 PCL for the groundwater at the Property.* The barium concentration in MW-5 was 2.11 mg/l which is greater than the TCEQ TRRP Tier 1 Residential PCL of 2.0 mg/l ( $^{GW}GW_{Ing}$ ). However, the barium concentration decreased by approximately 62% from the groundwater sampling event conducted in August 2023.

#### NAPL Discussion

According to the TCEQ TRRP Tier 1 TPH PCL Calculator for TCEQ Method 1006 Data, the Theoretical soil saturation limit is exceeded for one or more TPH fractions and indicates NAPL is indicated. However, during the site assessment, NAPL was not observed within the soil and/or groundwater. The oil/gas refinery operated from the early 1940s until the mid-1980s. The two southern ASTs appeared to have been removed by the mid-1990s, approximately 30 years ago. The TPH fraction concentrations do not exceed the <sup>Air</sup>GW-Soil<sub>Inh-V</sub> and the groundwater concentration is less than the Tier 1 Residential PCL. The soil concentrations exceeding the theoretical soil saturation limit are encountered at a depth of 10 -12 feet bgs and are not migrating and not mobile. The potential NAPL is not creating a nuisance or aesthetic impact and is not in contact with Class 1 or 2 groundwater, surface water, or sediment. Therefore, NAPL management is not required at the Property.

HKC collected a total of 15 soil samples that were analyzed for TPH 1005. Eight (8) soil samples exceeded the  $C_6$  to  $C_{12}$  Tier 1 Residential PCL of 33 mg/kg. Ten (10) soil samples exceeded the  $C_{12}$  to  $C_{28}$  Tier 1 Residential PCL of 99 mg/kg. HKC selected the highest total TPH 1005 concentration from each sample location to further analyze for TPH 1006 in order to calculate a site-specific TPH Critical PCL. A site-specific TPH PCL (Tier 2 PCL) was derived using the TPH Method 1006 utilizing the TCEQ TPH PCL Calculator Spreadsheet. A summary of the calculated TPH Tier 2 PCL is provided in the following table:

Sample Location	MW-1	MW-2	MW-3	MW-4	MW-5
Sample Depth	10-12 ft.	14-16 ft.	10-12 ft.	10-12 ft.	10-12 ft.
Unit			mg/kg		
Total TPH 1005 C <sub>6</sub> -C <sub>35</sub>	5,400	3,740	359	958	16,800
Total TPH 1006 C <sub>6</sub> -C <sub>35</sub> Aromatics & Aliphatics	5,742	3,170.90	466.8	921.9	11,070.30
<b>30 Acre Residential Tier 1</b> TotSoil <sub>Comb</sub> PCL <sub>TPH Mix</sub>	9,570	6,870	10,600	8,680	9,480
Tier 1 <sup>GW</sup> Soil <sub>Ing</sub> PCL <sub>TPH Mix</sub>	Not Needed (HI <10)	Not Needed (HI<10)	Not Needed (HI<10)	Not Needed (HI<10)	Not Needed (HI<10)

Notes: The orange highlighted cell is the lowest Tier 1 <sup>Tot</sup>Soil<sub>Comb</sub> PCL<sub>TPH Mix</sub>.

### **RAP Executive Summary**

The results of the TPH PCL Calculator Spreadsheet indicate that based on the composition of the material present at the Property, the soil-to-groundwater (<sup>GW</sup>Soil) pathway is not a significant concern for this material and does not need a PCL. Therefore, the default Tier 1 TPH PCL which is based on the Tier 1 <sup>GW</sup>Soil pathway is not applicable for the Property and the derived Site specific TPH PCL becomes the health-based (<sup>Tot</sup>Soil<sub>Comb</sub>) critical PCL (CPCL) or Tier 2 PCL. Based on all the TPH 1006 analyses, the Site-specific Tier 2 PCL for the total TPH is the lowest of all five locations with a concentration of 6,870 mg/kg. Only six (6) of 28 soil samples exceeded the Tier 2 calculated PCL, which included HKC soil samples MW-5 (10-12 ft.) and MW-5 (12-14 ft.) and Phase Engineering soil samples SB-1 (7-9 ft.), SB-2 (10-12 ft.), SB-3 (7-9 ft.), and SB-4 (5-7 ft.). *HKC notes Phase Engineering's sample locations SB-1 and SB-4 are located off site of the subject property.* 

#### **Response Actions and Recommendations**

Several VOCs, SVOCs, and TPH soil concentrations exceeded the TCEQ TRRP Tier 1 PCL at depths of 5-14 feet below ground surface (bgs). The soil concentrations appear to be protective of groundwater since none of the COCs were detected within the groundwater, except potentially barium and TPH  $C_6-C_{12}$ . However, barium was not a COC detected in the surface or subsurface soils at concentrations greater than the Tier 1 PCL. The soil vapor concentrations at the Property were not protective of the EPA Residential VISLs.

#### Surface/Subsurface Soils

The potential purchaser of the Property is proposing to develop the Property into as a multifamily housing that will be senior housing living apartments complex. As a remedy to the soil exceedances, HKC proposes utilizing the concrete parking and drive areas and the building as an impermeable cover in order to minimize continued vertical migration of the soil contamination (if any).

During construction, the soil will be disturbed during subsurface utilities installation which may provide exposure to the impacted media. Safe work practice with engineering controls will minimize any exposure such as no basement constructed, limiting the excavation depths to less than 10 ft. below grade and for subsurface utilities only. Using narrow buckets on excavation equipment for the necessary width of trenches.

#### Vapor Intrusion

HKC is recommending to the potential purchaser to install a passive vapor barrier beneath the building(s) to reduce the potential of vapor migration into the building.

#### <u>Groundwater</u>

Since the Property is to be developed, HKC will plug and abandoned the current monitoring wells prior to development. Following the development of the Property, HKC will re-install the monitoring wells in the immediate vicinity of the original monitoring wells and will conduct groundwater monitoring as deemed necessary by the TCEQ to ensure groundwater concentrations continue to be protective of human health and the environment.

RAP Executive Summary	ID No.: T-3840
	Report Date: February 2025

What is the selected remedy standard for this affected property? \_\_\_\_\_ A \_\_\_\_X B

List all media that contains a PCLE zone and specify the proposed response action for each media. Indicate the type of removal, decontamination, physical control and/or institutional control action that is proposed.

Media	COCs <sup>1</sup>	Removal	Decontamination	Control			
				Physical Control	rsical Modified Groundwat ntrol Response Objective		water ctive <sup>2</sup>
					PMZ	WCU	ті
Surface soil	VOCs, SVOCs, TPH			х			
Subsurface	VOCs and TPH			Х			
Groundwater	Barium, TPH			Х			
Soil Vapor	Potentially VOCs, SVOCs, and TPH			Х			

Is there a media that contains a PCLE zone that is not addressed in this RAP? \_\_\_\_\_ yes \_\_\_\_ no If yes, provide justification for not addressing the PCLE zone in this RAP.

On-site land use: X Residential Commercial/Industrial Off-site land use: X Residential Commercial/Industrial (check all that apply)	
Is this a re-submittal or revision of a previous RAP? <u>Yes</u> <u>X</u> No	
Were all the appropriate notifications made in accordance with §350.55?YesNoIf no, explain why notifications were not made:	

Not Applicable

<sup>&</sup>lt;sup>1</sup> Specify either a specific COC or, if the response action is the same for all COCs in one type, specify the type of COC (for example, VOCs, SVOCs, metals).

<sup>&</sup>lt;sup>2</sup> If a modified groundwater response objective is proposed, check the type(s) of proposed modifications.

### Chronology

On-site investigations were completed as part of a comprehensive study to define the potential source, nature and extent of potential organic constituent detected in soil and groundwater. The following is a summary of the investigations that were conducted at the site:

Date	Activity
February 2022	<b>Phase I ESA</b> – Based on Phase Engineering, LLC historical information, the Property along with the north and east adjoining properties were previously occupied by an oil / gas refinery from the early-1940s to the mid-1980s. ASTs were indicated throughout the refinery. Waste disposal pits were indicated near the northeastern corner of the Property on the north and east adjoining properties near the Property. Multiple large-scale waste reserve / disposal berms and pits were indicated at the east adjoining property. The client provided title commitment indicates that there is a Right-of-Way granted to Gulf Pipeline Company located on the subject property. No indication of this pipeline was indicated in the aerial photographs or topographic maps.
September 2022	<b>Phase II ESA</b> – Phase Engineering, LLC installed five soil borings and four soil vapor monitoring ports. A total of 13 soil samples, three groundwater samples, and four soil vapor samples were collected. The soil and groundwater samples were analyzed for VOCs, TPH, barium, lead, and selenium, chloride, and/or pH. The soil vapor samples were analyzed for VOCs. The soil analytical results indicated lead and TPH concentrations were greater than the TCEQ Tier 1 Residential PCLs. The groundwater analytical results indicated that chloride, barium, and TPH concentrations were greater than the TCEQ Tier 1 Residential PCLs. The soil vapor analytical results indicated 1,3-butadiene and 2-propanol were detected with concentrations greater than their perspective EPA Vapor Intrusion Screening Levels.
August/September 2023	Affected Property Assessment Investigation – HKC installed five monitoring wells to 25 feet bgs. A total of 15 soil samples and four groundwater samples were collected and analyzed for VOCs, TPH 1005/1006, SVOCs, RCRA Metals, Chloride, and/or TDS. The soil analytical results indicated TPH $C_6-C_{12}$ , $>C_{12}-C_{28}$ , Over $C_6-C_8$ aliphatics, Over $C_{12}-C_{16}$ aliphatics, Over $C_8-C_{10}$ aromatics, Over $C_{10}-C_{12}$ aromatics, Over $C_{12}-C_{16}$ aromatics, Over $C_{16}-C_{21}$ aromatics, Bromodichloromethane, Carbon tetrachloride, Dibromochloromethane, 1,2-Dibromo-3-Chloropropane, 1,2- Dibromoethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,1-Dichloropropene, trans-1,3- Dichloropropene, Naphthalene, N-Propylbenzene, 1,1,2,2- Tetrachloroethane, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3- Trichloropropane, and 2-Methylnaphthalene at concentrations greater than the TCEQ Tier 1 Residential PCLs for a 30-acre source area. Monitoring well MW-4 was dry during the groundwater sampling event and it was not sampled. The groundwater analytical results indicated barium had a concentration greater than the TCEQ Tier 1 Residential PCL in one groundwater sample collected from MW-5. Groundwater was encountered between 11 and 14 feet below the top of casing. Groundwater gradient was calculated to be to the east-northeast at a rate of 0.0256 ft/ft.

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	TDS samples ranged from 1,680 mg/l (MW-2) to 5,520 mg/l (MW-5). The yield test indicated the northern portion of the Property has a well yield of 2,342 gallons per day (gpd). However, in the central and southeastern portion of the Property the well yield is less than 15 gpd (MW-3 – 8.6 gpd and MW-5 – 12.05 gpd). The Property has a geometric mean of 62 gallons per day.
June/August 2024	Affected Property Assessment Update – One GW monitoring event was
	performed. The event included all 5 on-site wells. Five water samples were
	analyzed for VICCs TPH 1005 and 8 PCRA Metals. In addition, one water sample
	analyzed for VOCs, TTT 1005, and 8 KerkA Metals. In addition, one water sample
	was analyzed for SVUCS.
	VOCs were detected in some of the water samples. However, all detected
	concentrations were either below the analytical method detection limits or below
	the TCEQ Tier 1 Residential PCL and they are not considered as a concern.
	TPH was detected in two water samples MW-2 and MW-5. At MW-2, TPH was
	detected in the $C_{12}$ - $C_{28}$ range. The detected concentration in MW-2 was 0.894 mg/l
	and in MW-5 was 2.13J. The groundwater sample collected from MW-2 was
	further analyzed for SVOCs. The SVOC analytical results were all below the
	analytical method detection limits.
	8 RCRA Metals were detected in the water samples. Barium was detected at 2.11
	mg/l which is above the TCEQ Tier 1 Residential PCL of 2.00 mg/l in MW-5. Barium
	concentration decreased by 62% from the previous event (August 2023).
	All other RCRA metals concentrations including barium in the other wells were
	either below the analytical method detection limits or the TCEQ Tier 1 Residential
	PCLs and they are not considered as a concern.

# Checklist for Report Completeness ID No.: T-3840

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Use this checklist to determine the portions of the form that must be submitted for this report. Answer all questions by checking Yes or No. If the answer is Yes include that portion of the report. If the answer is No, do not complete or submit that portion of the report. All form contents that are marked "Required" must be submitted. Form contents marked with an asterisk (\*) are not included in the blank form and are to be provided by the person.



Checklist for Report Completeness	ID No.: T-3840	
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Checklist for Report Completeness	ID No.: T-3840
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Form contents marked with an asterisk (\*) are not included in the blank form.

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Use this worksheet to describe the objectives for the response action in each media.

#### **Response Action Objectives**

List the environmental media to which this applies Surface and Subsurface Soils, Groundwater, Soil

Vapor

Repeat this section for each medium that has a different response action objective.

State the property-specific response objectives for the PCLE zone in each media in the context of the response objectives set forth in §350.32 or §350.33 as applicable. Explain how the response action is appropriate based on the hydrogeologic characteristics, COC characteristics, and potential unprotective conditions that could continue or result during the remedial period.

The table below summarizes the Remedy Standard B general human health response objectives with an explanation on how the response action is appropriate for the site:

Response Objective	Rule Citation	Explanation
Persons must, within a	§350.33 (a)(1)	Surface and Subsurface Soil(s):
reasonable time frame given the	§350.33 (b)(2)	The future use of the site is residential, a Senior
particular circumstances of an	§350.37	Living Center, therefore, the surface soils are
affected property, remove,		considered 0 to 15 feet bgs. HKC is proposing the
decontaminate, and/or control		concrete parking and drive area and concrete
the surface soil, subsurface soil		building foundation(s) be a control or
and/or groundwater human		impermeable cover to not only limit the potential
health PCLE zones, other		exposure to the surface soils greater than the
environmental media, and		TRRP Tier 1 Residential PCLs but also to minimize
hazardous and non-hazardous		continued vertical migration of the soil
waste in accordance with the		contamination (if any).
provisions of this section such		Due to the lack of groundwater contamination
that humans will not be exposed		found within the majority of the monitoring wells
to concentrations of COCs in the		it appears the TPH and other constituents of
exposure media in excess of the		concern (COCs) concentrations continue to be
residential or		absorbed onto the underlying soils with minimal
commercial/industrial critical		or no leaching into the groundwater and appear
human health PCLs, as applicable		to be protective of groundwater.
at the prescribed, or any		During construction activities, it is anticipated
approved alternate human		that surface soils will be disturbed as part of the
points of exposure (POEs)		underground utility installation activities. Safe
established for environmental		work practices with engineering controls will
media in accordance with		minimize any exposure such as no basement
§350.37.		constructed, limiting the excavation depths to
		less than 10 ft. below grade and for subsurface
		utilities only. Using narrow buckets on excavation
		equipment for the necessary width of trenches.
		HKC will encourage the developer to install
		subsurface utilities along the western portion of
		the site. Construction workers will be informed of
		the potential hazards at the site by a Soil

<b>Response Action Objectives</b>	RAP Worksheet 1.0	Page of
Associated Information: Attachment 1A, 1B	ID No.: T-3840	Report Date:
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Response Objective	Rule Citation	Explanation
		Management Plan.
		<u>Groundwater:</u> Monitoring well MW-5 is the only monitoring well that has barium and most recently TPH at concentrations greater than the TRRP Tier 1 PCL. The city of Burkburnett Administrative Code §53.40 water wells, prohibits the use of groundwater for domestic use. HKC is recommending re-installing the monitoring wells at the site following construction in order to assess whether the TPH and/or barium concentrations are stable to decreasing. <i>It is</i> <i>important to note the site is located within the</i> <i>footprint of a former refinery and therefore, there</i> <i>is a potential for additional source(s) of</i> <i>contamination off-site.</i>
		Soil Vapor: Even though the surface soils, subsurface soils, and groundwater concentrations are less than the <sup>Air</sup> Soil <sub>Inh-V</sub> Tier 1 Residential PCL for a 30-acre source area, there is a potential for the vapor from the media to enter the buildings. Therefore, HKC is proposing to the install a passive vapor barrier under the buildings and around the underground utilities, so vapors do not accumulate and enter the building.
Remedy Standard B is not self- implementing. TCEQ's written approval of an APAR and a RAP is required before a person can implement a response action.	§350.33(d)	The original APAR was submitted to the TCEQ in August 2023. An updated APAR was submitted to the TCEQ in August 2024.
Remedial alternatives must be appropriate considering the hydrogeologic characteristics of an affected property, COC characteristics, and the potential for unprotective exposure conditions to continue or result during the remedial period. MNA, or an in-situ technology, may be a decontamination or a control remedy depending upon the circumstances.	§350.33 (b)(2)	See above.

Response Action Objectives	
Associated Information: Attachment 1A, 1B	

<b>RAP Worksheet 1.0</b>	Page of
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Response Objective	Rule Citation	Explanation
Class 1 groundwater PCLE zones	§350.33(b)	See above. Note: based on the groundwater
must be removed and/or		pumping tests conducted at the site, the
decontaminated to the critical		groundwater classification beneath the site is
groundwater PCL for each COC		Class 2.
except in the circumstance when		
the affected property qualifies		
for a modified groundwater		
response.		
An institutional control is	§350.31(g)	HKC proposes to deed restrict the concrete
required under Remedy		parking and drive areas along with the concrete
Standard B for both residential		foundations as an impermeable cover to the
and commercial/industrial land		surface and subsurface soils and groundwater.
uses.		

Based on the Tier 1 Ecological Exclusion checklist, as part of the APAR, there are no ecological receptor at the site.

Response Objective	Rule Citation	Explanation	
Persons must use an active	§350.33(f)(1)(A)	Following construction of the senior living	
approach or MNA to reduce the		center, the monitoring wells will be re-installed,	
concentration of COCs		developed, and groundwater samples will be	
to the critical groundwater PCLs		collected quarterly as deemed necessary by the	
throughout the groundwater		TCEQ to assess the groundwater beneath the	
PCLE zone		site. The only COC detected in the initial	
		groundwater sampling event was barium, which	
		decreased in concentration by 62% by the	
		second groundwater sampling event (5.53 mg/l	
		to 2.11 mg/l). The TPH $C_6$ - $C_{12}$ concentration in	
		MW-5 was 2.13J mg/l during the second	
		groundwater sampling event, which was greater	
		than the PCL of 0.98 mg/l. HKC notes during	
		future groundwater sampling events, if TPH is	
		detected again. TPH 1006 will be run on the	
		groundwater sample in order to establish a Tier 2	
		PCL for the groundwater at the Property.	
Persons must prevent	§350.33(f)(1)(B)	Currently, only monitoring well MW-5 has COCs	
concentrations above critical		(barium and TPH) greater than the applicable	
groundwater PCLs from		PCLs, which is located on the southeast	
migrating beyond the existing		boundary of the site. HKC is proposing	
boundary of the groundwater		groundwater sampling as deemed necessary by	
PCLE zone		the TCEQ to assess potential groundwater	
		contamination and/or stability.	
		It is important to note the site is located within	
		the footprint of a former refinery and therefore,	
		there is a potential for additional source(s) of	

# **Response Action Objectives**

Associated Information: Attachment 1A, 1B

Response Objective	Rule Citation	Explanation
		contamination off-site.
Persons must prevent COCs from migrating to air at concentrations above <sup>Air</sup> Air <sub>Inh</sub>	§350.33(f)(1)(C)	It is proposed to install an impermeable barrier (concrete) over the site to prevent COCs from migrating to air at concentrations greater than <sup>Air</sup> Air <sub>Inh</sub> PCLs. Additionally, there are currently no groundwater concentrations that exceed the <sup>Air</sup> Air <sub>Inh</sub> PCL.
Persons must prevent COCs from migrating to surface water at concentrations above the PCLs for groundwater discharges to surface water ( <sup>sw</sup> GW)	§350.33(f)(1)(D)	There are no surface water bodies and/or sediments affected at the site and no evidence of migration to surface water and/or sediments. No creeks, lowlands, or any natural ecological features were observed within the 500 foot radius of the site except an unnamed concrete lined drainage ditch located approximately 250 feet north (across Williams Drive) and runs in an east-west direction. HKC reviewed the U.S. Fish and Wildlife (USFW), Critical Habitat for Threatened and Endangered Species website and there were no threatened or endangered habitat located within 500 feet of the Property. Additionally, HKC reviewed the Texas Parks & Wildlife, Rare Threatened, and Endangered Species of Texas interactive map and there are no threatened or endangered species located at the Property.
Persons must prevent human	8350 33(f)(1)(F)	The depth to groundwater is between 11 and 17
and ecological receptor exposure		feet bgs. The impermeable barrier and passive
to the groundwater		vapor barrier will impede the potential for
PCLE zone		human and ecological receptor exposure.

Explain how the COCs will be handled, treated, disposed, or transferred to another media and document that the response action will not result in any additional potential exposure conditions due to response action activities.

There is currently no plan to excavate and/or dispose of any of the surface soils, subsurface soils, and/or groundwater at the site. However, if any soils were excavated for utilities installation, the soil will be characterized to be transported off-site, all local, state, and federal regulations will be followed. HKC proposes to prepare a Soil Management Plan for the developer, which will address the potential for any soil removal and/or transportation off-site.

State the proposed "reasonable time frame" and provide the justification for that time frame in the context of any potential for unprotective exposures to exist or develop, COC characteristics, hydrogeologic and affected property characteristics. If the reasonable time frame is different for the different affected media or for particular tracts of land, be sure to discuss that. Provide how the proposed response action will meet the objectives in a reasonable timeframe.

Response Action Objectives Associated Information: Attachment 1A, 1B

It is HKC's understanding that upon TCEQ's approval of this Response Action Plan (RAP), funds will be released from Texas Department of Housing and Urban Development (HUD) for the prospective purchaser to purchase the land and begin construction activities. It is assumed that the construction activities will not take more than 8 months to a year followed by the re-installation of the monitoring wells and conducting groundwater monitoring for another year to 2 years or as deemed necessary by the TCEQ to assess whether the groundwater is impacted and/or ensure stability of the groundwater concentration(s) within MW-5. It is HKC's opinion that a maximum of three (3) years following the approval of this RAP meets the objective of a reasonable timeframe.

#### **Soil Response Action Objectives**

When using removal and/or decontamination with controls or controls only, demonstrate how that physical control or combination of measures will reliably contain COCs within and/or derived from the surface soil and subsurface soil PCLE zone materials over time.

The oil/gas refinery operated from the early 1940s until the late 1950s. Based on local interviews, there was an explosion on the property adjacent north (Burkburnett Masonic Lodge) of the Property in the late 1950s to early 1960s and the oil/gas refinery operations ceased. It appears the horizontal ASTs located in the central portion of the Property were removed by the early 1970s. The two southern ASTs appeared to have been removed by the mid-1990s. Based on the property history, all impact to the soil and groundwater is more than 60 years old.

HKC proposes utilizing the concrete parking and drive areas and the building as an impermeable cover in order to minimize continued vertical migration of the soil contamination (if any). Additionally, HKC recommends a soil vapor barrier be installed beneath the building to reduce the potential of vapor migration into the building.

Explain how the removal or decontamination action will reduce the concentration of COCs to the critical surface soil and subsurface soil PCL throughout the soil PCLE zone and prevent COC concentrations above the critical soil PCLs from migrating beyond the existing boundary of the soil PCLE zone.

Not Applicable. Control is the only action being proposed. Based on the length of time the contamination has been in place, at least 60 years and the relatively minimal migration of the soil contamination and lack of COCs within the groundwater, the geological setting and soils characteristics are contributing to the lack of migration of the COCs within the subsurface and groundwater.

<b>Response Action Objectives</b>	RAP Worksheet 1.0	Page of	
Associated Information: Attachment 1A, 1B	ID No.: T-3840	Report Date:	
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#### **Groundwater Response Action Objectives**

Name of groundwater-bearing unit to which this information applies	Perched Groundwater Bearing
	Unit
Repeat this section for each groundwater-bearing unit for which a diffe	erent response action is proposed.
Groundwater classification 1 X 2 3	
Is a modified groundwater response action being proposed for any par groundwater PCLE zone (§350.33(f)(2), (3), or (4))?	t of the X Yes No
If yes, does the affected property meet the qualifying criteria for a modi response action using a waste control unit, plume management zone, o impracticability? If yes, complete the appropriate portions of this report.	fied groundwater or technicalYesNo

If no to either question, complete the following:

Explain how the removal or decontamination action will reduce the concentration of COCs to the critical groundwater PCL throughout the groundwater PCLE zone and prevent COC concentrations above the critical groundwater PCL from migrating beyond the existing boundary of the groundwater PCLE zone. Not applicable.

Explain how the response action will prevent COCs from migrating to air at concentrations above the PCLs for air if the groundwater-to-air PCLs (<sup>Air</sup>GW<sub>Inh-V</sub>) is exceeded.

Barium does not have a groundwater-to-air PCL ( $^{Air}GW_{Inh-V}$ ) and the TPH concentration is less than the  $^{Air}GW_{Inh-V}$ .

Explain how the response action will prevent COCs from migrating to surface water at concentrations above the PCLs for groundwater discharges to surface water if surface water is a factor.

There are no surface water bodies and/or sediments affected at the site and no evidence of migration to surface water and/or sediments. No creeks, lowlands, or any natural ecological features were observed within the 500 foot radius of the site except an unnamed concrete lined drainage ditch located approximately 250 feet north (across Williams Drive) and runs in an east-west direction. HKC reviewed the U.S. Fish and Wildlife (USFW), Critical Habitat for Threatened and Endangered Species website and there were no threatened or endangered habitat located within 500 feet of the Property.

Additionally, HKC reviewed the Texas Parks & Wildlife, Rare Threatened, and Endangered Species of Texas interactive map and there are no threatened or endangered species located at the Property.

Explain how the response action will prevent human and ecological receptor exposure to the groundwater *PCLE* zone.

The depth to groundwater is between 11 and 17 feet bgs. The impermeable barrier and passive vapor barrier will impede the potential for human and ecological receptor exposure.

COMMERCIAL PROPERTIES



#### LEGEND

## Property Line Based on Survey GW Monitoring Well Soil Sample Location /Temporary GW Well Subsurface Soil Concentration Map Based on TPH 1005. COCs concentrations follow same trend for a lesser extent (mg/kg) Impacted Area Based on TPH 1005. COCs concentrations follow same trend for a lesser extent (mg/kg) Impacted Area Based on Metals (Barium) and TPH. All other COCs concentrations were below applicable limits (mg/l)

Design and Layout of the vapor collection system will be determined after completion of the buildings design and utilites layout.



ATTACHMENT 1A Site map showing proposed buildings layout, soil, GW Sample Locations and identifed Plumes  

 RAP Worksheet 2.0
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#### **Response Action Design**

Use this worksheet to provide detailed descriptions of the response action. Attach design and layout drawings and equipment specifications in Attachment 2A.

#### Media: Soil Vapor

List all media to which this information applies. If the response action is different for another media, complete a separate worksheet.

Provide a detailed description of the response action. Describe the removal action, decontamination, treatment system(s), and/or physical or institutional control actions that are proposed for each media and discuss the reasons for choosing the response action(s). Identify and describe any ecological services analysis and compensatory restoration plan that will be utilized (if so, include the complete ESA and compensatory restoration plan in Attachment 2C).

"Three primary factors drive the occurrence of vapor intrusion (VI) in buildings:

- contaminant properties, concentrations and locations,
- potential entry routes (e.g., floor drains, French drains, sumps, seams or cracks in the floor slab, utility penetrations, and open top blocks in the foundation walls) and
- pressure differentials between the building and the subsurface that could draw contaminants from the soil into the building"<sup>1</sup>.

HKC is proposing a passive vapor barrier and will coordinate with the building civil engineer in the design and installation of the passive vapor barrier.

"There are five basic components to effective VI resistant construction:

- permeable sub-slab support material (e.g., gravel),
- venting all sub-slab areas below occupied spaces,
- properly-sized sub-slab and riser piping,
- a sealed vapor barrier, and
- if an active system is specified, a properly-sized blower to maintain sufficient negative pressure beneath the slab.

Passive venting systems typically have the first four components above, but do not have a blower to mechanically draw soil gases from sub-slab collection piping to above the roof. Rather, they rely on thermal and atmospheric effects to draw the soil gases into the piping and vent it outside. ... A typical active mitigation system is illustrated below. A passive system would be similar but would not include a blower."<sup>2</sup>

Response Action Design	RAP Worksheet 2.0 Page of				
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Source: Figure 1 of the Naval Facilities Engineering Command, Vapor Intrusion Mitigation in Construction of New Buildings Fact Sheet

After the ground has been "proof-rolled" by removing undesirable items, drying, leveling and compacting the soil, a permeable layer of crushed stone will be installed (AASHTO #57 is preferred). Perforated ventilation pipes will run beneath the slab and direct the vapors to a centrally located plenum box, which is connected to vertical riser piping that transports soil gases to vent above the roof line. Sizing the conveyance pipe is based on the square feet of the area to be vented and the number of pipe fittings used between the sub-slab plenum box and the cent termination point. It will be recommended a filter fabric layer be laid down prior to the 10-mil polyethylene or polyolefin VI barrier. *The most important part of the effectiveness of any vapor barrier system is achieving a tight seal to foundation walls and around utility penetrations through the membrane.* The concrete slab installer will be monitored to ensure there are no puncture(s) in the vapor barrier and to drain off extra water that may be associated with the concrete finishing process.

Describe all major treatment system components and equipment of the response action. Illustrate the response action design and provide equipment specifications in Attachment 2A. See above.

List permits or registrations needed to construct or implement the response action, including permits or registrations needed to conduct studies or tests. For VCP sites, list the permits that would be required if the site was not in the VCP (required by the VCP).

Permitting/Registration Authority	Type of permit/registration	Permit or registration number if already issued	Anticipated application date
None anticipated			

Identify and discuss the results of any studies or tests, such as pilot studies, feasibility studies, technical impracticability studies, treatability studies, and/or toxicity studies conducted or proposed to be conducted at the affected property. Discuss the reason for the study or test and how it verifies the effectiveness and appropriateness of the chosen response action or documents that a particular response action is not appropriate for the affected property. Describe how the results of completed studies or tests determined the design or choice of response action. Attach any separate reports and supporting documentation in Appendix 3.

Response	Action	Design
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Associated Information: Attachment 2A, 2B, 2C

<b>RAP Worksheet 2.</b>	0 Page of
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No studies or tests, such as pilot studies, feasibility studies, technical impracticability studies, treatability studies, and/or toxicity studies conducted or proposed to be conducted at the affected property. However, included in **Appendix 3** is a copy of the Naval Facilities Engineering Command, Vapor Intrusion Mitigation in Construction of New Buildings Fact Sheet, which is referenced throughout this RAP.

Institutional Control	RAP Worksheet 2.4 Pa	age of
Associated Information: Appendices 4, 5	ID No.: T-3840	Report Date: February 2025

Complete this worksheet if an institutional control will be used as part of the response action. Include a draft of the proposed institutional controls in Appendix 4. Provide a list of landowners from whom landowner concurrence will be requested, as necessary, in Appendix 5. Specify the property for which this applies. Approximately 5.0-Acres of Vacant Land

Repeat this worksheet for each different property for which an institutional control will be used.

Institutional Control		Type of Institutional Control <sup>1</sup>				Property Ownership	
	Deed Notice	Restrictive Covenant	VCP Certificate of Completion	Equivalent zoning or governmental ordinance	Check if pertinent tract of land is owned by the person	Check if the pertinent tract of land is owned by an innocent owner or operator	
Document use of commercial/industrial land use (§350.31(g))							
Document use of physical or institutional control under Remedy Standard B §350.31(g))	X				Potential Purchaser		120 days following the approval of the RAP
Document notice of on-going long term response action (§350.31(h))	X				Potential Purchaser		120 days following the approval of the RAP
Document use of occupational inhalation criteria as RBELs (§350.74(b)(1))							
Document variance from the default exposure factors (§350.74(j)(2)(L))							
Document the use of a non-default soil exposure area (§350.51(I)(3)&(4))	X				Potential Purchaser		120 days following the approval of the RAP
Document WCU exclusion area (§350.33(f)(2))							
Document establishing a PMZ (§350.33(f)(4)(C)(I))							
Document the demonstration of technical impracticability							

<sup>1</sup> Check the appropriate box(es) to indicate the type of institutional control required for the proposed response action.

<sup>2</sup> Specify date or amount of time after RAP approval.

Institutional Control	<b>RAP Worksheet 2.4</b>	Page of
Associated Information: Appendices 4, 5	ID No.: T-3840	Report Date: February 2025

Institutional Control	Type of Institutional Control <sup>1</sup>				Property Ownership		Anticipated Filing Date <sup>2</sup>
	Deed Notice	Restrictive Covenant	VCP Certificate of Completion	Equivalent zoning or governmental ordinance	Check if pertinent tract of land is owned by the person	Check if the pertinent tract of land is owned by an innocent owner or operator	-
(§350.33(f)(3)(F))							
Relocation of soils containing COCs for reuse (§350.36(b)(4) and (c)(4))							

#### **Performance Measures**

List and describe the performance measures for each environmental medium containing a PCLE zone that will be used to determine if reasonable progress is being made by the response action in a timely manner. Use these measures to document effectiveness of the response action in the RAER.

Not applicable. Following the development of the proposed senior living facility, one to 2 years or as deemed necessary by the TCEQ groundwater sampling will be conducted to ensure the groundwater has not been impacted and/or if the groundwater concentration(s) are stable.

In addition, air samples will be collected over a period of 24 hours at the plenum box to determine effectiveness of the passive air venting system.

#### **Potential Problems**

Complete the table for the response action. When the response action consists of several components or multiple actions, complete one table for each major component or action.

Response Action Name/Designation: Vapor Barrier

List the potential problems that might be reasonably anticipated for the response action, describe the impact of each problem, and the response to the problem.

Description of the Potential Problem	Impact	Will this cause a response action failure?		Will this cause a response action failure?		Will this cause a response action failure?		Will this cause a response action failure?		Will this cause a response action failure?		will this cause a response action failure?		Corrective Response
		Yes	No											
Vapor barrier puncture	Reduces the effectiveness of the vapor barrier.		X	Promptly repair the barrier using appropriate patching materials and techniques specific to the barrier type										
Cracks or gaps around foundation walls	Reduces the effectiveness of the vapor barrier.		x	Promptly seal any and all gaps using appropriate patching materials and techniques specific to the barrier type										
Water intrusion detected	Reduces the effectiveness of the vapor barrier.		x	Identify the source and take corrective measures to prevent future issues.										

Monitoring and Sampling	RAP Worksheet 3.1	Page of
Associated Information: Attachment 3A	ID No.: T-3840	Report Date: February 2025

List the monitoring and sampling of COC concentrations or other parameters that will be conducted during the response action. Illustrate the monitoring or sampling locations in Attachment 3A. If statistics or geostatistics will be used, provide details in Appendix 7. If monitoring or observation wells will be constructed for the response action, provide well construction details in Attachment 2B if not previously provided.

Monitored Media	COC1	Other parameter (specify)	Sampling Method <sup>2</sup>	Sampling points or locations <sup>3</sup>	Depth/Height⁴ (ft.)	Analytical or Field Screening Method	Sampling or Monitoring Frequency⁵
Surface Soil							
Subsurface Soil							
Groundwater	VOCs		Same as APAR	Re-installed	NA	NA	Quarterly for 1-2
	SVOCs		-	MW-1 through			years or as
	Barium			MW-5			deemed
	ТРН						necessary by
							the TCEQ
Surface water							
Sediment							
Air							
Other Media (specify)							

Explain the reasons for the above-listed monitoring and sampling plan.

HKC is recommending re-installing the monitoring wells at the site following construction in order to assess whether the TPH and/or barium concentrations are stable to decreasing.

<sup>1</sup> Specify the COCs to be monitored in this media. List either type of COC (such as VOCs, metals) if all the COCs of that type will be monitored the same way.

<sup>2</sup> Describe the sampling or monitoring methods and QC procedures in Appendix 1 unless the proposed sampling or monitoring procedure is the same as the sampling or monitoring procedure described in the APAR.

<sup>3</sup> Specify the sampling or monitoring point, such as the specific monitor well or general sampling or monitoring location.

<sup>4</sup> Specify the depth or height of the sampling or monitoring points.

<sup>5</sup> Specify the frequency at which this monitoring or sampling will occur.

Operation and Maintenance	<b>RAP Worksheet 3.2</b>	Page of	
operation and maintenance	ID No.:	Report Date:	

Use this worksheet to describe the operation and maintenance (O&M) activities for each response action. In situations where the response action consists of more than one major component, for clarity one worksheet can be completed for each major component.

**Response Action Name/Designation:** Vapor Barrier

List all portions of the response action to which this information applies.

Describe the O&M and inspection activities that will be required to operate and maintain response action components.

Due to the fact that the passive vapor barrier does not have any mechanical devices, there are no operation and maintenance components, other than visual inspections of the concrete (i.e., cracks), and collection of air samples at the plenum box.

List and discuss the key operating parameters for a properly functioning response action. Address how changes in these parameters will result in operating changes, providing sufficient detail to explain how the operator will know the component is functioning properly.

No applicable.

List the routine tasks required to operate the response action.

None.

List the routine tasks required to maintain the response action, including scheduled inspections, maintenance, and component replacement.

Visual inspections of the impermeable cover (i.e., concrete) will be conducted annually.

Confirmation Sampling Plan	RAP Worksheet 4.0	) Page of
Associated Information: Attachment 4A	ID No.:	Report Date:

List the COCs and other parameters that will be sampled to confirm completion of the response action. Illustrate the monitoring or sampling locations in Attachment 4A. If monitoring or observation wells will be constructed for the response action, provide well construction details in Attachment 2B if not previously provided. If needed, describe the sample collection and handling methods, if not previously provided, in Appendix 6.

Media	COC1	Other parameter (specify)	Sampling Method	Sampling points <sup>2</sup>	Depth/height (ft.)	Analytical Method	Sampling Frequency
Surface Soil							
Subsurface Soil							
Groundwater	VOCs	NA	Same as	Re-installed	NA	EPA 8260B	Quarterly for 1-2 years
	SVOCs		APAR	MW-1		EPA 8270C	or as deemed
	Barium			through MW-		EPA 6020B	necessary by the
	ТРН			5		TX 1005	TCEQ
Surface water							
Sediment							
Air							
Other media (specify)							

Explain the reasons for the above-listed sampling plan. Discuss statistical or geostatistical methodology(ies) which will be applied, if any, in the data collection process. Discuss any assumptions made in the statistical/geostatistical assessment, and how they will be met.

HKC is recommending re-installing the monitoring wells at the site following construction in order to assess whether the TPH and/or barium concentrations are stable to decreasing. It is important to note the site is located within the footprint of a former refinery and therefore, there is a potential for additional source(s) of contamination off-site. No groundwater concentrations exceed the <sup>Air</sup>Air<sub>Inh</sub> PCL.

<sup>1</sup> Specify either a specific COC or type of COC (such as VOCs, metals).

<sup>2</sup> Specify the sampling point to the degree it is known, (for example, MW-1, or near former boring #2).

Post-Response Action Care	RAP Worksheet 5.0	Page of
Associated Information: Attachments 5A-5C	ID No.: T-3840	Report date: February 2025

Complete this worksheet only if Remedy Standard B will be used.

What is the proposed initial post-response action care period? (default 30 yr.) 30 years

If the proposed initial post-response action care period is less than 30 years, provide a technical justification in accordance with §350.33(h).

Not applicable.

What is the foreseeable land use during the post-response action care period? Residential

Describe how the future use of the property will not compromise the integrity of the physical controls, will not interfere with the function of the monitoring systems, will not pose a threat to human health or the environment, and will be in accordance with any institutional controls.

The future use of the property is proposed to be a senior living facility and will not compromise the integrity of the physical control currently proposed for the site.

Briefly describe the proposed post-response action care activities. Describe the type of monitoring and/or inspections to be performed. Discuss the rationale for not including COC(s) analyzed during the response action, monitoring or sampling point location, frequency of monitoring and/or inspections, and the duration of the monitoring program.

Following installation of the passive vapor barrier, annual inspections of the concrete will be conducted. A passive vapor barrier system inspection log will include details like the date, inspector's name, location inspected, building type, area inspected (slab perimeter), sealing around penetrations, any signs of damage or deterioration, areas requiring repair, and a summary of findings with recommendations for corrective actions.

 Will PRAC sampling procedures be the same as those as previously documented
 NA

 for monitoring and/ or confirmation sampling?
 Yes

 If no, provide in Appendix 6 a description of the monitoring or sampling collection procedures to be conducted during the post-response action care period.
 No

#### **Cost Estimate**

Complete this portion of the form only if a physical control is proposed (installed hydraulic control system, slurry wall, cap, etc.). Provide in Attachment 5B a detailed cost estimate for a third party to operate and maintain the physical control during the PRAC period, based on current dollar amount.

Specify the physical control to which this information applies Passive Vapor Barrier Complete this worksheet for each physical control that will be used as part of the response action.

What is the total estimated annual cost of O&M for the PRAC period? \$To be Determined By Contractor

What is the total estimated cost for a third party to perform PRAC activities? \$ To be Determined

Identify the type of financial assurance mechanism to be used, and the contact person managing fiduciary responsibility, if known.

Not available at this time. Upon approval of the RAP, and HUD provide the funds, the responsible party

RAP Worksheet 5.0	Page of
ID No.: T-3840	Report date:
	February 2025

will purchase the property, complete the design of the proposed development and then will provide the insurance mechanism for it.

Does the person meet the criteria and definition of a small business? (see §350.33(n)) Yes No If yes and the person desires to pursue the reduced amount of financial assurance, provide a legally binding affidavit as Attachment 5C. Include in the affidavit the information requested in 30 TAC §350.33(l), (m), and (n). An example affidavit is attached in the instructions.

Implementation Schedule	RAP Worksheet 6.0 Page of	
	ID No.: T-3840	Report Date:
		February 2025

Document the proposed schedule for implementing the response action. Include all major response action activities through the life of the project, including all removal, decontamination, and control actions, component installations. O&M. monitoring, and post-response action care activities.

Implementation of Response Action (specify component or action)	Start	Finish	Duration
Purchase of property, finalization of civil plans	Summer 2025	December 2025	6 months
Construction of senior living facility with passive vapor barrier	Winter -fall 2026	Fall 2026	1 year
Groundwater monitoring well installation and groundwater sampling events.	Fall 2026	Fall 2027	1 year
RACR	Fall 2027	winter 2028	3 months

List the proposed schedule for report submittals. Add additional lines if more reports than listed will be needed to complete the response action.

Reports	Submittal date
Response Action Effectiveness Report (RAER)	
RAER submittal number 1	
RAER submittal number 2	
RAER submittal number 3	
Response Action Completion Report (RACR)	December 2028
Post-Response Action Care Report (PRACR)	
PRACR submittal number 1	December 2038
PRACR submittal number 2	December 2048
PRACR submittal number 3	December 2058
# APPENDIX 3 Vapor Intrusion Mitigation in Construction of New Buildings Fact Sheet

HKC & Associates, Inc.



# Vapor Intrusion Mitigation in Construction of New Buildings Fact Sheet

#### Introduction

Vapor intrusion (VI) is the migration of volatile chemicals from subsurface soil and/or groundwater into the indoor air of overlying buildings. Most VI events occur when volatile organic compounds (VOCs) are released into the subsurface from sources such as underground storage tanks, dry cleaners, gasoline stations, or industrial processes such as degreasing metals. VOCs typically associated with VI are chlorinated solvents, including carbon tetrachloride, tetrachloroethene (PCE), trichloroethene (TCE), and methylene chloride, and gasoline derivatives such as benzene. Hazards presented by these chemicals are typically chronic human health effects such as cancer, organ toxicity, or reproductive toxicity. Gases, such as methane migrating from landfills, may also present potential explosive hazards.

If the contaminants present in the subsurface are predicted to result in indoor air concentrations above acceptable risk levels, VI mitigation measures should be incorporated into the design of any new buildings. This fact sheet provides an overview of VI mitigation methods used in new buildings along with important factors to consider when selecting and designing these mitigation systems. In new construction, VI mitigation can include passive methods such as vapor barriers and natural venting systems; active systems such as sub-slab depressurization (SSD) systems; or a combination of passive and active methods. VI mitigation systems integrated during construction of new buildings are more cost effective, function better and are less obtrusive than mitigation systems retrofitted into existing buildings.

This fact sheet was prepared by the Navy Alternative Restoration Technology Team (ARTT) workgroup for use by Navy personnel such as remedial project managers (RPMs) and planners. RPMs may want to consider it for inclusion in Land Use Controls (LUCs) or provide it to base personnel or the public for informational purposes. Typically, Environmental Restoration, Navy (ER,N) funds shall not be used to install VI mitigation systems for new construction; however, RPMs and other Navy personnel should consult the Navy Environmental Restoration Program (NERP)/Defense Environmental Restoration Program (DERP) manuals for the latest guidance.

# Key Factors When Considering VI Mitigation

Once the vapor sources have been assessed and it has been determined that there is potential for VI to pose an unacceptable risk in buildings constructed on the site, the next step is to select which preconstruction mitigation strategies should be implemented to prevent VI. Three primary factors drive the occurrence of VI in buildings:

- contaminant properties, concentrations and locations,
- potential entry routes (e.g., floor drains, French drains, sumps, seams or cracks in the floor slab, utility penetrations, and open top blocks in the foundation walls) and
- pressure differentials between the building and the subsurface that could draw contaminants from the soil into the building.

Understanding these components and the effects that they have on the transfer of subsurface VOCs to indoor air will help to determine which VI mitigation strategies should be integrated into the construction of a new building.

#### **Prevention of VI in New Construction**

New construction provides many opportunities to prevent VI that are not available for existing buildings. For example, at some sites, the area most likely to produce unacceptable VI can be avoided and set aside for another purpose such as green space. Also, new buildings can sometimes be designed to include a highly ventilated, low occupancy area at ground level, such as an open parking garage. It should be noted, however, that if contaminated areas of the site are to be covered with pavement, the resultant effects on migration of vapors should be considered in order to avoid effects on adjacent structures.

Methods for VI mitigation in new construction can be passive (such as vapor barriers and natural venting systems) or active (using blowers to depressurize the sub-slab area). Frequently in new construction, elements of both passive and active methods are combined (e.g., a vapor barrier may be installed along with active SSD) or a passive ventilation system may be designed to allow for conversion to an active system (e.g., by adding blowers) at a later time if the passive system fails to prevent VI.



For construction of new buildings, there are five basic components to effective VI resistant construction:

- permeable sub-slab support material (e.g., gravel),
- venting all sub-slab areas below occupied spaces,
- properly-sized sub-slab and riser piping,
- a sealed vapor barrier, and
- if an active system is specified, a properly-sized blower to maintain sufficient negative pressure beneath the slab.

Passive venting systems typically have the first four components above, but do not have a blower to mechanically draw soil gases from sub-slab collection piping to above the roof. Rather, they rely on thermal and atmospheric effects to draw the soil gases into the piping and vent it outside. Active SSD systems are powered by blowers that create a vacuum beneath the slab and actively vent sub-slab gases through solid conveyance piping to above the roof line. A typical active mitigation system is illustrated in Figure 1. A passive system would be similar but would not include a blower.



Figure 1. VI mitigation system with a vapor barrier and active SSD.

#### Permeable Sub-slab Support Material

After the ground has been proof-rolled by removing undesirable items, drying, leveling and compacting the soil, a permeable layer of crushed stone should be installed (Figure 2).



Figure 2. Proof-rolled ground covered with 8 inches AASHTO #57 stone.

Eight inches or more of a highly permeable, coarse aggregate such as American Association of State Highway and Transportation Officials (AASHTO) #57 stone is preferred. There should be a minimum of 2 inches of crushed stone above and below any sub-slab conveyance pipe to prevent slab cracking. If 6-inch pipe is used, the ground beneath the pipe may need to be trenched to ensure sufficient crushed stone for slab support (Figure 3).



Figure 3. Gravel placed over proof-rolled site with trenching for vent piping.

#### Venting

The most efficient way to vent sub-slab soil gas is using perforated ventilation pipes that run beneath the slab and direct the vapors to a centrally located plenum box. The plenum box is constructed of hollow concrete blocks turned on their sides with an empty space in the center (Figure 4).



Figure 4. Connecting isolated slab areas with a central plenum box

The box is connected to vertical riser piping that transports soil gases to vents above the roof line. There should be a minimum of 8 inches of crushed stone beneath and beside the plenum box. All slab areas within the occupied portions of the building need to be included in the sub-slab vapor collection system and connected to the plenum. Footings at grade changes and thickened slabs beneath concrete masonry walls often create isolated sub-slab areas (Figure 5). These isolated areas need to be addressed by placing adequate gravel below them or adding ventilation pipe to connect them to the system. Commercial venting products such as those consisting of a thick rectangular-shaped roll-out plastic and fabric-covered conveyance plenum, or perforated collection pipe can provide a conduit to connect isolated slab areas to a central sub-slab plenum box (Figure 6).



Figure 5. Isolated gravel beds.



Figure 6. Commercial venting product has properties similar to 4-inch PVC pipe with lower installation costs.

Sizing the conveyance pipe is based on the square feet of the area to be vented and the number of pipe fittings used between the sub-slab plenum box and the vent termination point. Drag coefficient tables exist for different pipe diameters and assorted fittings. Since coordinated drawings are usually not part of the design phase, the person designing the system should plan for twice the number of pipe fittings when calculating the pressure drop associated with a riser pipe system. The most commonly used riser pipe material is polyvinyl chloride (PVC) because of its availability, low cost, and low airflow drag coefficients. No-hub cast iron pipe is used when there is concern of exceeding the flame spread or smoke index. This is a concern when conveyance piping passes through a return air plenum. Protective pipe enclosures or steel pipe is used in areas of vehicle or fork lift traffic. Conveyance piping can be joined together beneath the slab to minimize vertical risers (Figure 7). A 3-inch riser pipe can service up to 1,500 ft<sup>2</sup>, a 4-inch riser can service up to 4,000 ft<sup>2</sup> and 6-inch riser pipe can service up to 15,000 ft<sup>2</sup>. Sub-slab conveyance pipe should have 5/8-inch condensate drain holes that face down at 4-inch intervals. If factory perforated pipe is used, one set of holes should face down.



Figure 7. Risers grouped for future pairing and efficient construction.

#### Vapor Barriers

Selecting the right vapor barrier is a critical part of the VI mitigation system and the vapor barrier can be the most expensive part of the system. The type of vapor barrier and the quality of the seal will determine the efficiency and effectiveness of the protective measure. After the contaminants of concern (COCs) have been identified, the protective qualities of the vapor barrier material should be matched to the identified compounds to minimize potential for chemical breakthrough. The types of vapor barriers available and their advantages and disadvantages are summarized in Table 1.

The most important part of the effectiveness of any vapor barrier system is achieving a tight seal to foundation walls and around utility penetrations through the membrane. A filter fabric layer is recommended to protect all vapor barriers from punctures associated with construction debris and the underlying stone. The concrete slab installer must not be allowed to puncture the vapor barrier to drain off extra water that may be associated with the concrete finishing process.

Vapor Barrier Material	Advantages	Disadvantages
6-mil polyethylene or polyolefin (Figure 8).	<ul> <li>Inexpensive</li> <li>Often made from post-consumer recycled materials.</li> </ul>	<ul> <li>Permeance water vapor transmission rate (WVTR) is between 0.1 to 0.3 perms; considered a vapor retarder not a true vapor barrier - slows down vapor transmission but does not completely block vapors</li> <li>May not be chemically resistant</li> <li>Difficult to seal at walls and utility penetrations</li> <li>Low puncture and tear resistance compared to reinforced materials</li> <li>Standard applications with unsealed seams are only partially effective for preventing VI</li> <li>Not recommended for most VI applications.</li> </ul>
>10-mil polyethylene or polyolefin (Figure 9).	<ul> <li>Relatively inexpensive</li> <li>Permeance WVTR is &lt;0.1 perms (considered a true vapor barrier; almost completely blocks vapors)</li> <li>Often made from post-consumer recycled materials.</li> </ul>	<ul> <li>May not be chemically resistant</li> <li>Difficult to seal at perimeter walls and utility penetrations</li> <li>Low puncture and tear resistance compared to reinforced materials of similar thickness.</li> </ul>

#### Table 1. Types of vapor barriers used in VI mitigation.

#### Table 1. Types of vapor barriers used in VI mitigation. (continued)

Vapor Barrier Material	Advantages	Disadvantages
Cross laminate polyethylene or polyolefin; generally 3-ply materials with woven scrim between two polyethylene sheets.	<ul> <li>Permeance WVTR is &lt;0.1 perms (considered a true vapor barrier; almost completely blocks vapors)</li> <li>Puncture/tear resistance up to 50 times greater than 6-mil polyethylene/polyolefin vapor retarder.</li> <li>Improved sealing at perimeter walls and utility penetrations because manufacturer-supplied tapes and cloth binders are generally used.</li> </ul>	<ul> <li>Moderately expensive</li> <li>May not be chemically resistant.</li> </ul>
Spray-applied vapor barrier: Non-woven geotextile fabric base over stone layer followed by a spray-applied coating. The coating material binds to the support fabric, column pads, side foundation walls; minimum thickness of 60 mil; total thickness including support fabric is 73 mil (see Figures 10, 11, and 12).	<ul> <li>Permeance WVTR is &lt;0.1 perms (considered a true vapor barrier; almost completely blocks vapors)</li> <li>Provides a nearly gas-tight seal since coating material binds to column pads and side foundation walls.</li> <li>Leak test is performed following installation and any leaks are repaired.</li> <li>Installers must be licensed by manufacturer.</li> <li>Coating selected for chemical resistance to specific contaminants.</li> </ul>	<ul> <li>Generally more expensive than other types of barriers.</li> </ul>

Note: Information on the chemical resistance and ability of a particular vapor barrier material to block a particular contaminant should be obtained from the manufacturer of the specific product being considered. Some information may be available on the Web sites for specific vapor barrier products.



Figure 8. Standard vapor barrier with unsealed seams.



Figure 9. Polyolefin vapor barrier with sealed seams shown with rebar and concrete slab being installed over top.



Figure 10. Geotextile fabric is placed over stone followed by spray application of the sealant.



Figure 11. Spraying an emulsified asphalt latex barrier.



Figure 12. Installation of a spray-applied barrier at a large site.

#### **Active VI Mitigation Systems**

Active VI mitigation systems in new construction generally consist of a sub-slab depressurization system with ventilation piping connected to a blower that depressurizes the sub-slab and vents the vapor above the roof level. Depending on the leakage associated with the vapor barrier, the configuration of the sub-slab conveyance piping and the design of the plenum box, a single properly-sized collection system can service up to 15,000 ft<sup>2</sup> of floor space. The design goal is to create a minimum sub-slab negative pressure of -0.02 inches of water column (in. w.c.) at the area that is most distant from the plenum box using a blower that consumes no more than 140 watts and can move 200 cubic feet per minute (CFM) at 1.0 in. w.c. static pressure. Even though lower pressure differentials may be able to successfully arrest the soil gases, a pressure of -0.02 in, w.c. is recommended as a design goal to provide a safety factor for construction conditions that could potentially reduce the efficiency of vacuum distribution (e.g., sand particles mixed in with the crushed stone, elevated sub-slab utility conduits, presence of overburden from trenching, and conveyance piping that has been crushed or distorted by unscheduled vehicle traffic).

When designing a depressurization system and specifying blowers, it is important to include the projected piping pressure losses. Speculating the final active system airflow is one of the most difficult parts of the design process. Airflow is a function of blower capacity, piping size, fittings and layout, sub-slab aggregate resistance, soil permeability and slab and foundation leakage. The performance required from the blower to achieve the specified vacuum field is largely determined by the slab leakage and quality of the vapor barrier seal. If there is clean crushed stone and 4-inch conveyance piping, a blower that can move 200 CFM at -1.0 in. w.c. can create a vacuum field of -0.02 in. w.c. or greater over a 4,000 ft<sup>2</sup> area. Reducing the slab leakage can significantly increase the coverage area. The primary design goal should always be highly permeable sub-slab material and minimal slab leakage.

During the construction phase, soil probes should be embedded in the crushed stone to allow testing of system effectiveness after the slab has been poured (Figure 13). Probes are embedded because drilling through the concrete creates an unnecessary risk of damaging sub-slab utilities and will void most vapor barrier warranties. Probes should



Figure 13. Forms for vertical column support pad with embedded soil probes.

be located distant from the plenum box near the projected end of the negative pressure field. These probes are typically made of heavily perforated PVC pipe that is 2 inches in diameter or less and connected to rigid, smaller diameter pipe that extends to a sampling port above the slab. Typically, this is 0.5-inch gas pipe that is embedded into a column pocket to protect it from damage during the concrete pour and power trowel process. Depending on the potential for soil vapor entry, these probes could be as numerous as one per isolated foundation area. At least one probe should be installed per 5,000 ft<sup>2</sup> of slab area and for each different slab elevation. Each blower system should have at least one soil probe.

The effectiveness of any soil depressurization system should be quantified after the slab is poured and allowed to cure for at least 14 days. The test is performed by temporarily installing the specified blower and measuring the extension of the negative pressure field. The efficiency of the system is measured by temporarily activating the system after hooking up the blower that has been specified for permanent installation. The pressure field extensions should be measured at the sample ports that are at the end of the embedded probes. A micromanometer that can measure to a sensitivity of -0.001 in. w.c. should be used. If vacuum field measurements at the probe most distant from the blower exceed 0.036 in. w.c. (9 pascals), the top of the acceptable vacuum range specified by ASTM, the procedure can be repeated with a blower that uses less electricity. If favorable test results are obtained, the blower can be downgraded to a lower wattage blower that will save energy and reduce operating expenses. The minimum induced sub-slab vacuum field in an unfinished, unheated building should be -0.02 in. w.c. The selected blower model, vacuum field and exhaust airflow values should be recorded and included in the construction documents that are presented at the end of the project. Sampling for indoor air contaminant concentrations should occur once the building is weather tight and the air handling systems are operational.

#### **Passive Mitigation Systems**

As noted above, passive VI mitigation methods do not require an electrical power source to operate. These include physical vapor barriers and piping systems that rely on natural ventilation to move air from the subsurface to prevent the buildup of contaminated vapors. The integrity of the vapor barrier and efficiency of a passive vent system are two main variables in determining the effectiveness of a passive system. Punctures or tears in the vapor barrier that can occur during the construction process will diminish the effectiveness of a passive system. Efficiency of passive venting can be affected by weather, functioning better in some conditions than others. However, the benefit of a well-designed passive system is that it can be converted to an active system if indoor air concentrations are determined to exceed acceptable risk levels.

It should be noted that passive mitigation methods alone may not be acceptable to state regulators when human health risk is above acceptable limits. For example, in California, the installation of a vapor barrier alone is not an acceptable VI mitigation method where indoor air risk is greater than or equal to  $1 \times 10^6$  or the hazard index is greater than or equal to 1.0. In these situations, a vapor barrier can only be used in combination with an active VI mitigation system such as SSD.

#### **Energy and Sustainability Considerations**

When designing a system to prevent VI, long-term energy considerations need to be factored into the design. Greater design efficiency reduces operational costs and extends the time that an active venting system can be sustained for a fixed capital expenditure. A streamlined sub-slab collection plenum system with minimal conveyance piping fittings will increase the efficiency of sub-slab vacuum distribution and reduce the energy required by the blower. Three components need to be considered when attempting to lower the operational energy costs of a VI mitigation system. They are: the cost of operating the blower(s) that will maintain the negative pressure beneath the slab, the cost of the heat that is being drawn out of the building and the cost of the cooled conditioned air that is being drawn out of the building. An additional cost that must be considered is the cost of replacing the blowers themselves. Additional blowers will result in higher operations and maintenance costs. Selecting a sealed vapor barrier system that minimizes leakage is the largest variable in reducing ongoing energy costs. The cost to heat or cool the conditioned air that is drawn into the collection system can be a greater operational expense than the electrical cost to operate the blowers. Installing a tightly-sealed vapor barrier system and optimizing the blower size can save up to \$1,000 annually in heating, cooling and electric costs per 10,000 ft<sup>2</sup> of floor space. Also, a new type of mitigation control system is currently being piloted that will optimize the blower speed on active mitigation systems. This new control system has pressure sensors in the soil and in the building and uses software to adjust the blower speed to attain the targeted pressure differential between building and soil. This allows the blower to run at reduced speeds while still achieving the desired mitigation results. Optimizing the blower speed in this way is expected to reduce energy costs of active mitigation systems by as much as 50 percent. These systems are expected to be commercially available soon.

#### Cost for VI Mitigation Systems in New Construction

Designing and implementing a VI mitigation system as part of planning and construction is far more cost effective than a retrofit installation midway through construction or after construction is complete. The cost of installing a VI mitigation system during construction can vary significantly based on the COCs, the soil properties, and construction style of the building. The design and installation costs can range from \$2.50/ft<sup>2</sup> to \$6.75/ft<sup>2</sup>; however, for most buildings, the cost of a combination vapor barrier/venting system is in the \$3.00/ft<sup>2</sup> to \$4.00/ft<sup>2</sup> range. For comparison, installation costs to retrofit mitigation systems into existing buildings typically range from \$5/ft<sup>2</sup> to \$8/ft<sup>2</sup>.

Several variables affect these costs and every building will be different. The type of vapor barrier required and construction style of the building are the variables that have the greatest impacts on cost. For example, spray-applied asphalt latex vapor barriers, which are extremely effective, can be eight times the per square foot cost of 10 mil polyethylene. However, polyethylene may not be an effective option for some COCs. The soil variables to consider are the concentrations of the COCs, the permeability of the soil and the potential for the contaminant plume to move toward the building after construction. The primary construction variable is the area of the open foundation, since smaller segmented foundation areas and frequent utility penetrations will drive up the labor cost of sealing the vapor barrier. Also, the type of riser pipe used on the interior of the building affects cost. PVC riser pipes are more economical; however, metal riser pipes may be required to meet smoke index and flame spread requirements. There are greater costs associated with piping through a multistory building when compared to a single story building. Whether the system will be active or passive is another cost variable. The more gas tight a vapor barrier is, the greater the energy savings and the lower the long-term operational cost. It is best to plan out each component with a mitigation expert, select the materials and venting options, then calculate the costs.

#### Case Study for Joint Expeditionary Base Little Creek

This case study describes a VI mitigation system installed at Joint Expeditionary Base (JEB) Little Creek, Virginia during construction of its new Commissary (Building 3445). The Commissary is a supermarketstyle building with approximately 150,000 to 200,000 ft<sup>2</sup> of floor space. The VI mitigation system includes both a passive soil venting system and a spray-applied elastomeric urethane vapor barrier.

#### Background

Site 12<sup>°</sup> is the location of the former Navy Exchange laundry/dry cleaning facility (Building 3323), which was demolished in 1987. The site is situated in the eastern portion of JEB Little Creek just south of the new Commissary (Figure 14). In the 1970s, dry cleaning wastes, including PCE sludges, were discharged from Building 3323 to the storm sewer. Environmental investigations of Site 12 indicated that the groundwater contained VOCs including PCE and its breakdown products; TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. The highest concentrations of VOCs were present beneath the planned parking lot next to the location of the new Commissary, although the plume did not extend beneath the Commissary itself (Figure 15). Because of this close proximity to the plume, it was decided that a VI mitigation system should be installed during construction of the new Commissary as a precautionary measure.



Legenia Installation Boundary Groundwater Plume Treatment Area

Figure 14. Location of Site 12 on JEB Little Creek.



Groundwater Plane Treatment Area 
 Former Disposal Catch Basin Location
 Growner Buiking Locations
 Freshwetr Canal
 Freshwetr Canal
 Growner Storm Water Line
 Outfall Location

Note: Shorn Sener was removed during construction of the commissiony (1987 - 1982).

Figure 15. Arial photo of Building 3445 adjacent to Site 12 groundwater plume.

#### Mitigation System

The VI mitigation system included a passive subsurface venting system installed under the floor of the new Commissary to depressurize the subsurface and prevent the intrusion of VOC vapors into the building. The venting system installed beneath the Commissary consists of five rows of 4-inch perforated PVC piping running north-south at 60-ft intervals. The piping was placed in a layer of gravel (#57 stone) and surrounded by filter fabric. The piping connects to three riser pipes, which extend through the roof and are topped with wind-driven turbines to create a slight negative pressure in the vent system (Figure 16). A spray-on elastomeric urethane vapor barrier was applied above the soil gas venting layer before the building's concrete slab was poured. The slab is approximately 8 inches thick. Additionally, all new sewer manholes were sealed with waterproofing, and any existing sanitary sewer lines that were to be abandoned were grouted in place.

In addition to the mitigation system in the Commissary, groundwater remediation has been implemented to treat the source and reduce the extent of the groundwater plume beneath the adjacent parking lot. The selected remedial action was enhanced reductive dechlorination using injection of a trademarked emulsified oil substrate along with land use controls and groundwater monitoring.



Figure 16. Roof vents fitted with wind turbines provide slight depressurization of the subslab area and prevent the buildup of contaminants beneath the building.

In the Commissary's VI mitigation system, the vapor barrier is the principal component for preventing VI. Its purpose is to prevent the diffusion of soil gas and associated contaminants into the building. The passive venting system serves as augmentation for the vapor barrier, rather than as the primary mitigation measure. This passive system is suitable for a site such as Site 12 where the plume is not immediately beneath the building and is not causing a significant threat to the building occupants and where remedial action is underway to further reduce the potential risk to occupants in the future. In situations where there are high VOC concentrations below the building and human health risks are predicted to be significant, an active system such as an SSD with blowers would most likely be required.

#### **Post-Mitigation Inspection**

A site inspection of the VI mitigation system at the Commissary was conducted several years after installation. This inspection found that the concrete slab was competent with no apparent penetrations that could be conduits for intrusion of subsurface vapor. The rooftop wind turbines exhibited some corrosion and would spin intermittently in a wind of about 10 mph, rather than spinning freely. Maintenance such as lubricating the shaft and bearings of the turbines or, if necessary, replacement with aluminum turbines would improve the functionality of the venting system. However, in the future, if groundwater sampling indicates that the remedial action is effective in reducing the VOC contaminants, these inspections and maintenance may no longer be necessary for protection of human health.

#### Resources

Additional information on VI mitigation for new construction can be found in the following sources:

California Department of Toxic Substances Control. 2009. Vapor Intrusion Mitigation Advisory. <u>http://www.dtsc.ca.gov/sitecleanup/upload/VI\_Mitigation\_Advisory\_Apr09.pdf</u> Interstate Technology and Regulatory Council (ITRC). 2007. Vapor Intrusion Pathway: A Practical Guideline. <u>http://www.itrcweb.org/Documents/VI-1.pdf</u>

U.S. Environmental Protection Agency. 2008. Engineering Issue: Indoor Air Vapor Intrusion Mitigation Approaches. EPA/600/R-08-115. <u>http://www.clu-in.org/download/char/600r08115.pdf</u>

#### Photos and drawings throughout provided courtesy of Clean Vapor, LLC, CETCO, and CH2M Hill.

#### **Operation and Maintenance Manuals for Sub-Slab Depressurization Systems**

Vapor mitigation systems including passive or active sub-slab depressurization systems (SSDSs) to mitigate the intrusion of contaminated vapors into on-site buildings are a common requirement for the issuance of No Further Action letters and Certificates of Completion under DOEE programs. If continued operation of an SSDS is a condition of site closure, an Operation and Maintenance (O&M) Manual must be approved by DOEE prior to issuance of the closure letter. The O&M Manual must contain the following components:

#### Site and System Description

•

- Property description including site address, lot, and parcel number
  - Overview of system design goals and locations of system components within building
    - Passive systems: locations of sub-slab piping, vapor barriers (if present), exhaust stacks, etc.
    - Active systems: same as passive systems plus locations of electric connections, fuses, control panels, manometers, pressure gauges, fans, etc.
- For passive systems, conditions which may trigger conversion to an active system

#### Inspection and Maintenance

- Schedules describing frequency of inspection and maintenance intervals for fans/vents/blowers
- List of components to be inspected and inspection log components (including verification of floor integrity if sub-slab concentrations exceed applicable criteria)
- Process for corrective action if components are not operating within specification and documentation process for maintenance log
- On-site location for inspection logs
- List of persons and/or position responsible for maintenance of the O&M log
- Provision for notification of DOEE regarding system failures that interrupted effective operation of SSDS

#### System Monitoring

- Frequency and documentation of pressure readings from gauges and/or manometers
- If continued sub-slab and/or indoor air sampling is required, describe:
  - Frequency and duration of sampling
  - Sampling methods
  - o Documentation of sampling activities and reporting frequency to DOEE
- Action levels that trigger reevaluation of the system

#### Contacts and Notifications

- Name and contact information for property owner, consultant, and DOEE project manager
- Process for notifying DOEE of any change in property use, ownership, or system changes
- Process for mitigating risk of damage to the system by future construction activities

#### <u>Attachments</u>

- Plan-view figures illustrating site location, locations of residual contamination (if applicable), and system layout within building
- Cross-section figures illustrating SSDS extraction point through floor (indicate depth of slab, diameter of slab penetration, etc.) and location of vapor barrier
- Representative images of installation activities and key components

DOEE may impose additional requirements for the O&M Manual based on site-specific factors. Additional guidance on O&M of vapor mitigation systems can be found <u>here</u>.



# VAPOR INTRUSION MITIGATION SYSTEM OPERATION, MONITORING, AND MAINTENANCE CHECKLIST

**Scope of Checklist:** The purpose of this checklist is to guide the user during the inspection of a vapor intrusion mitigation system (VIMS) to (1) verify that the VIMS is operating as designed and (2) determine if certain operation, maintenance, and monitoring (OM&M) activities are necessary for continued operation and effectiveness of the system. This checklist is intended to provide factors to consider when documenting that the VIMS is operating and is effectively mitigating the vapor intrusion pathway during the lifecycle of its operation. Not all the information presented below is necessary to document system operation for all types of systems on all types of buildings, and some items may not be needed during every monitoring event. The user should be able to identify which criteria below best represent effective operation and responsible maintenance of their specific VIMS and if the conceptual site model (under which the system was designed) is still valid.

Prior to completing the inspection, it is recommended that the user review previously prepared OM&M plans. As-built drawings and performance (baseline) criteria are needed when conducting inspections of a VIMS. Monitoring scope, schedule, and methods may follow applicable agency requirements, which may be amended on a case-by-case basis through regulatory negotiation and approval. Where applicable, the monitoring and inspections must also comply with standards of practice and applicable codes (electrical code, building code).

In some situations, OM&M plans may not exist or be available or were not provided to a new operator or new building owner. Thus, the original as-built drawings and possibly the original performance criteria may not be known. In these cases, the checklist below can still be used to assist in developing the appropriate ongoing OM&M parameters for that particular site, although additional effort may be appropriate depending on the complexity of the building and site conditions.

#### 1. SITE INSPECTION INFORMATION

Address inspected:		
Date of inspection:	I	Date of last inspection:
Inspector(s):	Title:	Company:
Building contact:		Phone number:
Frequency of inspections: AnnualSemi-annual	Quarterly _	MonthlyOther (specify)
Type of system being inspected:		

### 2. MITIGATION SYSTEM OPERATION

2.1.	Was the mitigation system functioning as designed and operating upon arrival?	□ Yes	□ No	$\Box$ NA
	If "no," explain in Section 5, Observations and Corrective Actions, why the system was not operational and steps taken to correct the problem.			
	If "no" and the cause of the system shutdown is determined, follow the start-up procedures as detailed in the system OM&M plan and complete the remainder of the checklist.			
2.2.	Has the mitigation system been altered from what is shown in the as-built drawings?	□ Yes	🗆 No	$\Box$ NA
	If yes, discuss in Section 5 changes and possible impacts.			
2.3.	Has the mitigation system operated continuously since the last OM&M event?	□ Yes	🗆 No	$\Box$ NA
	If no, discuss in Section 5 changes and possible impacts.			
2.4.	Have procedures and equipment been checked for proper operation?	□ Yes	🗆 No	$\Box$ NA
	If no, discuss in Section 5 changes and possible impacts.			
2.5.	Are labels identifying the system components in place and legible?	□ Yes	🗆 No	$\Box$ NA
	If no, specify the date of replacement.			
2.6.	Conduct a visual inspection of accessible system piping and pipe seals, including membrane seals (if applicable), connections, etc. Were any cracks/gaps or any changes in the system configuration observed?	□ Yes	□ No	□ NA
	If yes list the inspection results in Section 5 and document			
	the corrections to fix these problems.			
3.	BUILDING CONDITIONS AND USE			
3.1.	Is the building's heating system or heating, ventilating, and air conditioning (HVAC) system operating?	□ Yes	🗆 No	□ NA
	If yes, provide a summary below and explain in Section 5 if the HVAC system operation could impact the effectiveness of the mitigation system.			
	Hours/day of HVAC operation			
	Climate controlled?	□ Yes	□ No	$\Box$ NA
	3.1.1. Is the building's heating system or HVAC system on during this OM&M event?	□ Yes	□ No	$\Box$ NA
	3.1.2. Is the building's heating system or HVAC system equipped with outside dampers?	□ Yes	🗆 No	□ NA

	If yes, how many?% opened			
3.2.	Has the building had a change in use since the system began operation? (i.e., Are the exposure assumptions still appropriate?)	□ Yes	□ No	□ NA
	If yes, explain in Section 5 what these changes are and how they may impact the effectiveness of the mitigation system.			
3.3.	Has the building undergone any physical modifications (building additions, change to interior walls, new sumps or French drains, any new permits filed, etc.)?	□ Yes	□ No	□ NA
	If yes, explain in Section 5 the building changes and how they may impact the effectiveness of the passive mitigation system.			
3.4.	Has the condition of the basement (lowest floor) walls, floors, sumps, and utility penetrations been inspected for cracks, gaps, or seal failure?	□ Yes	□ No	□ NA
	<i>If yes, list the inspection results in Section 5 and document the corrections (if necessary) to fix any problems.</i>			
3.5.	Has a visual inspection been conducted assessing the presence of moisture and/or efflorescence as crystalline deposits in the basement or lowest floor, including any crawlspaces? <i>If evidence of moisture or efflorescence was found, list the</i> <i>inspection results in Section 5 and document the corrections</i> <i>to fix these problems.</i>	□ Yes	□ No	□ NA
4.	MONITORING AND DIAGNOSTIC MEASUREMENTS			
4.1.	Record vacuum and air flow at the suction point(s) and compare to baseline values (if applicable). Note: Field instruments such as a micromanometer can be used if in-line gauges/displays are not built-in.	□ Yes	□ No	□ NA
	Prepare and attach monitoring data table to summarize the results.			
	If consistent, note the conclusion in Section 5. If not consistent, explain discrepancies in Section 5 and whether further corrective steps are necessary for the VIMS or actions taken.			
4.2.	Record fan or blower/fan air flow and vacuum and compare to	□ Yes	🗆 No	$\Box$ NA
	baseline values (if applicable). Note: Field instruments such as a hot-wire anemometer can be used if in-line gauges/displays are not built-in.			
	Prepare and attach monitoring data table to summarize the results. If consistent, note the conclusion in Section 5.			

If not consistent, explain discrepancies in Section 5 and whether further corrective steps are necessary for the VIMS or actions taken.				
4.3. Are telemetry systems indicating normal operating conditions?	□ Yes	🗆 No	$\Box$ NA	
If no, describe issues and any mitigative actions in Section 5.				
Type of telemetry: Location:				
Summary of operating conditions:				
4.4. Did any telemetry system data show irregular entries or shutdown?	□ Yes	□ No	$\Box$ NA	
<ul> <li>If yes, describe issues and any mitigative actions in Section 5.</li> <li>4.5. Conduct vapor concentration monitoring within system (if applicable). Field instruments need to be calibrated and meet detection levels of vapors being monitored. If no sampling ports are built into the system, conduct monitoring at the piping discharge/exhaust. Monitoring options include: <ul> <li>a) field screening with a photoionization detector (PID) for total ionizable VOCs or flame ionization detector (FID) for total hydrocarbons, including methane</li> <li>b) b) landfill gas monitoring for oxygen, carbon dioxide, and methane to assess cross-slab leakage, and sub-slab ventilation rates</li> <li>c) whole gas (Tedlar bag, Summa canister, Bottle-Vac, etc., for analysis by USEPA Method TO-15 or similar) or sorbent sample (pumped ATD tube and TO-17 analysis). Holding tim requirements of VOC samples for laboratory analysis need to be followed.</li> </ul> </li> </ul>	e			
<ul> <li>Has there been a significant increase or decrease in concentrations since the previous monitoring event(s)? Multiply the concentration(s) by the flow rate to calculate mass emission rates.</li> <li>If the emission rates are higher than permit discharge limits, if present, consider off-gas treatment, taller stack, permit variance, or other options.</li> <li>If there has been a building depressurization test, is the initial mass removal rate from the system greater than the mass emissions through the building during depressurization?</li> <li>If the rate of mass removal from the system is too low to pose a potential risk to indoor air quality (i.e., the product of vent pipe concentrations multiplied by vent pipe flow rate is less than the product of the indoor air screening</li> </ul>	□ Yes	□ No	□ NA	

	le ra to (w ve Recor monit Discu	vel multiplied by the building volume and air exchange te), consider whether it may be appropriate to transition a sub-slab ventilation system, semi-passive system rind or solar fans), passive system (no fan, but open nt-pipes) or a decommissioned system. d the monitoring results in Section 5 or the attached oring data tables. ss in Section 5 the reason(s) for any significant changes			
16	obser	ved.			
4.0.	at monito appropria monitorin	ring points beneath the building floor slab if te. Is the minimum differential pressure recorded at all g points?			
	Recor	d the monitoring results in the attached monitoring data	!		
	tables Discu obser	ss in Section 5 the reason(s) for any significant changes ved.			
	Conda collec	act a periodic leak check of the sampling probes if ting soil gas samples.			
	For lo consid	ocations where the minimum vacuum is not observed, ler additional data collection.			
	<i>a)</i>	Connect a digital micromanometer to the probe, set data logging to a 1-second frequency and cycle the fan on and off (e.g., one minute on and then off, or until the micromanometer readings have stabilized). Repeat this cycle at least two times. Does the trend show a characteristic saw-toothed pattern with a magnitude similar to the target vacuum level?	□ Yes	□ No	□ NA
	b)	Hold a smoke pen over the probe when open. Is the smoke drawn strongly into the probe?	□ Yes	🗆 No	$\Box$ NA
	<i>c)</i>	Consider collecting a soil gas sample from the probe. If the vapor concentrations are below conservative sub-slab screening levels, it may not be necessary or appropriate to modify the system to exert additional vacuum to this location.			
4.7.	Were inde	oor air samples collected for laboratory analysis as	□ Yes	□ No	$\Box$ NA
	performat	nce metrics?			
	If yes, mitiga Backg mater are a consid	summarize in Section 5 the results for COCs and any ative actions. round sources (consumer products and building ials inside buildings and ambient outdoor air VOCs) common confounding factor and must be explicitly lered when interpreting indoor air samples.			

4.8. Has a smoke test been conducted (if necessary) to verify the continued integrity of the liner?	□ Yes	🗆 No	$\Box$ NA
If yes, summarize in Section 5 the results and any corrective actions.			
4.9. Has the appropriate frequency for system inspections been completed to date?	□ Yes	🗆 No	$\Box$ NA
If no, explain the discrepancy in Section 5.			
Current frequency of inspections			
4.10. Were batteries replaced in any battery-powered alarms (if needed)?	□ Yes	🗆 No	$\Box$ NA
4.11. Were additional items inspected?	□ Yes	🗆 No	$\Box$ NA
If yes, explain in Section 5 the item(s) inspected and the findings from the inspection			
4.12. Was system component maintenance completed per equipment manufacturer specifications?	□ Yes	□ No	$\Box$ NA
If yes, explain in Section 5 the maintenance completed.			

.

#### 5. OBSERVATIONS AND CORRECTIVE ACTIONS

Document observations and corrective actions or modifications made or planned to be made to the VIMS, and the results obtained to verify the effectiveness of the actions or modifications. Refer to the specific item number above for each observation or corrective action. Use additional pages as necessary.

#### 6. PHOTOGRAPHIC LOG

Photographs taken and included as attachment?	$\Box$ Yes $\Box$ No $\Box$ NA
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### 7. OVERALL VI MITIGATION SYSTEM ASSESSMENT

Is the mitigation system still protective?

 $\Box$  Yes  $\Box$  No

#### 8. INSPECTOR INFORMATION

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Brooke T. Paup, *Chairwoman* Bobby Janecka, *Commissioner* Catarina R. Gonzales, *Commissioner* Kelly Keel, *Executive Director* 



### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 21, 2025

Mr. Noorallah Jooma Burkburnett Royal Gardens P.O. Box 113267 Carrollton, Texas 75011

Re: Comments

Response Action Plan, dated February 26, 2025
Affected Property Assessment Report
Approximately 5 Acres of Vacant Land
South of Williams Drive
Burkburnett, Wichita County
T No. 3840, RN111755963, CN606150472

Dear Mr. Jooma,

The Texas Commission on Environmental Quality (TCEQ) has reviewed the abovereferenced response action plan (RAP). The recommendations in the RAP include: 1) using the concrete parking area of the proposed new building as a physical control for affected soil; 2) installing a vapor barrier beneath the proposed new building; 3) filing an institutional control; and 4) continued groundwater monitoring. The TCEQ understands that the responsible party is requesting an expedited review of this RAP and issuance of an approval letter because the Department of Housing and Urban Development funding for the property development will expire soon.

#### Comments

- 1. The additional groundwater assessment requested by the TCEQ in its December 12, 2024 letter was not completed. The responsible party proposes to plug the current monitor wells prior to the property development, install replacement monitor wells after the property development, and complete the additional groundwater assessment requested in the TCEQ's December 12, 2024 letter. This approach is approved by the TCEQ.
- 2. The information provided in the RAP that addressed the physical control, institutional control, and installation of the vapor barrier did not provide the necessary information to adequately evaluate the proposed response actions. However, if the response actions are correctly implemented, they will be adequate measures to address the affected soil and potential vapor intrusion. A complete RAP should be submitted following the improvements at the site.

Questions concerning this letter should be directed to me at

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

Mr. Jooma Page 2 March 21, 2025 T No. 3840

<u>Michael.Duffin@tceq.texas.gov</u>. When responding by mail, please submit one paper and electronic copy (on USB or disc) of all correspondence and reports to the TCEQ Remediation Division at Mail Code MC-127. An additional copy should be submitted in electronic format to the local TCEQ Region Office. The information in the reference block should be included in all submittals. Note that the electronic and hard copies should be identical, complete copies. A Correspondence ID Form (TCEQ Form 20428) must accompany each document submitted to the Remediation Division and should be affixed to the front of your submittal. The Correspondence ID Form helps ensure that your documents are identified correctly and are routed to the applicable program for a timely response.

Sincerely,

Mike Duffin, Ph.D., P.G. VCP-CA Section Remediation Division Texas Commission on Environmental Quality

# SEPA EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

# Burkburnett, TX

1 mile Ring Centered at 34.086014,-98.576095 Population: 6,696 Area in square miles: 3.14

A3 Landscape



Search Result (noint)

0.01 0.02 0.04 m 0.02 0.04 0.0

#### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	3%
Other Indo-European	1%
Total Non-English	3%

#### COMMUNITY INFORMATION



From Ages 1 to 4	6%
From Ages 1 to 18	<b>20</b> %
From Ages 18 and up	80%
From Ages 65 and up	23%

#### LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	42%
Speak Other Indo-European Languages	<b>58%</b>
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

# **Environmental Justice & Supplemental Indexes**

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

#### **EJ INDEXES**



The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

#### SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.



#### SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION

These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

 $\equiv$ 

Report for 1 mile Ring Centered at 34.086014,-98.576095

# **EJScreen Environmental and Socioeconomic Indicators Data**

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA	
POLLUTION AND SOURCES						
Particulate Matter (µg/m³)	8.04	9.11	13	8.08	45	
Ozone (ppb)	62.4	64.6	31	61.6	59	
Diesel Particulate Matter (µg/m <sup>3</sup> )	0.117	0.218	23	0.261	21	
Air Toxics Cancer Risk* (lifetime risk per million)	20	28	1	25	5	
Air Toxics Respiratory HI*	0.23	0.3	1	0.31	4	
Toxic Releases to Air	2,200	12,000	71	4,600	74	
Traffic Proximity (daily traffic count/distance to road)	30	150	25	210	30	
Lead Paint (% Pre-1960 Housing)	0.36	0.17	81	0.3	63	
Superfund Proximity (site count/km distance)	0.01	0.085	7	0.13	4	
RMP Facility Proximity (facility count/km distance)	0.26	0.63	48	0.43	65	
Hazardous Waste Proximity (facility count/km distance)	0.61	0.75	65	1.9	53	
Underground Storage Tanks (count/km <sup>2</sup> )	2.1	2.3	60	3.9	60	
Wastewater Discharge (toxicity-weighted concentration/m distance)		0.91	21	22	27	
SOCIOECONOMIC INDICATORS						
Demographic Index	23%	46%	19	35%	38	
Supplemental Demographic Index	12%	17%	37	14%	46	
People of Color	22%	58%	15	39%	40	
Low Income	24%	34%	38	31%	44	
Unemployment Rate	4%	5%	51	6%	49	
Limited English Speaking Households	2%	8%	49	5%	66	
Less Than High School Education	9%	16%	41	12%	52	
Under Age 5	6%	6%	53	6%	61	
Over Age 64	23%	14%	82	17%	75	
Low Life Expectancy	23%	20%	80	20%	79	

\*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <u>https://www.epa.gov/haps/air-toxics-data-update</u>.

#### Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	5
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

#### Other community features within defined area:

Schools	4
Hospitals	0
Places of Worship 1	11

#### Other environmental data:

Air Non-attainment	No
Impaired Waters	No

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring Centered at 34.086014,-98.576095

# **EJScreen Environmental and Socioeconomic Indicators Data**

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	20%	80	20%	79
Heart Disease	7.2	5.9	72	6.1	71
Asthma	9.5	9.2	64	10	40
Cancer	6.7	5.2	81	6.1	62
Persons with Disabilities	21%	12.3%	91	13.4%	88

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	2%	10%	35	12%	26
Wildfire Risk	98%	30%	89	14%	94

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	14%	15%	58	14%	60
Lack of Health Insurance	21%	18%	64	9%	93
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for 1 mile Ring Centered at 34.086014,-98.576095



### **U.S. FWS Threatened & Endangered Species Active Critical Habitats**

Critical habitat is a term defined and used in the Act. It is a specific geographic area(s) that is essential for the conservation of a threatened or endangered species and that may require special management and protection. Critical habitat may include an area that is not currently occupied by the species but that will be needed for its recovery. An area is designated as "critical habitat".

An area designated as critical habitat is not a refuge or sanctuary for the species. Listed species and their habitat are protected by the Act whether or not they are in an area designated as critical habitat.

Critical Habitat - Linear Features - Final Critical Habitat - Polygon Features - Final	<ul> <li>Critical Habitat - Linear Features - Proposed</li> <li>Critical Habitat - Polygon Features - Proposed</li> </ul>
PHASE TRUSTED ENVIRONMENTAL SOLUTIONS	PE Project No: 202402008



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Arlington Ecological Services Field Office 501 West Felix Street Suite 1105 Fort Worth, TX 76115-3410 Phone: (817) 277-1100 Fax: (817) 277-1129 Email Address: <u>arles@fws.gov</u>



In Reply Refer To: Project Code: 2024-0079423 Project Name: 202402008 Burkburnett Royal Gardens 04/19/2024 13:59:34 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, which may occur within the boundary of your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under section 7(a)(1) of the Act, Federal agencies are directed to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Under and 7(a)(2) and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether their actions may affect threatened and endangered species and/or designated critical habitat. A Federal action is an activity or program authorized, funded, or carried out, in whole or in part, by a Federal agency (50 CFR 402.02).

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For Federal actions other than major construction activities, the Service suggests that a biological evaluation (similar to a Biological Assessment) be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

After evaluating the potential effects of a proposed action on federally listed species, one of the following determinations should be made by the Federal agency:

- 1. *No effect* the appropriate determination when a project, as proposed, is anticipated to have no effects to listed species or critical habitat. A "no effect" determination does not require section 7 consultation and no coordination or contact with the Service is necessary. However, the action agency should maintain a complete record of their evaluation, including the steps leading to the determination of affect, the qualified personnel conducting the evaluation, habitat conditions, site photographs, and any other related information.
- 2. *May affect, but is not likely to adversely affect* the appropriate determination when a proposed action's anticipated effects to listed species or critical habitat are insignificant, discountable, or completely beneficial. Insignificant effects relate to the size of the impact and should never reach the scale where "take" of a listed species occurs. Discountable effects are those extremely unlikely to occur. Based on best judgment, a person would not be able to meaningfully measure, detect, or evaluate insignificant effects, or expect discountable effects to occur. This determination requires written concurrence from the Service. A biological evaluation or other supporting information justifying this determination should be submitted with a request for written concurrence.
- 3. *May affect, is likely to adversely affect* the appropriate determination if any adverse effect to listed species or critical habitat may occur as a consequence of the proposed action, and the effect is not discountable or insignificant. This determination requires formal section 7 consultation.

The Service has performed up-front analysis for certain project types and species in your project area. These analyses have been compiled into *determination keys*, which allows an action agency, or its designated non-federal representative, to initiate a streamlined process for determining a proposed project's potential effects on federally listed species. The determination keys can be accessed through IPaC.

The Service recommends that candidate species, proposed species, and proposed critical habitat be addressed should consultation be necessary. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found at: https://www.fws.gov/service/section-7-consultations

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (https://www.fws.gov/library/collections/bald-andgolden-eagle-management). Additionally, wind energy projects should follow the wind energy guidelines (https://www.fws.gov/media/land-based-wind-energy-guidelines) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation. The Federal Aviation Administration (FAA) released specifications for and made mandatory flashing L-810 lights on new towers 150-350 feet AGL, and the elimination of L-810 steady-burning side lights on towers above 350 feet AGL. While the FAA made these changes to reduce the number of migratory bird collisions (by as much as 70%), extinguishing steady-burning side lights and eagle conservation plans, please contact the Service's Migratory Bird Office at 505-248-7882.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

# **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### Arlington Ecological Services Field Office

501 West Felix Street Suite 1105 Fort Worth, TX 76115-3410 (817) 277-1100

### **PROJECT SUMMARY**

Project Code:	2024-0079423
Project Name:	202402008 Burkburnett Royal Gardens
Project Type:	Residential Construction
Project Description:	The proposed project, , is a new 80-unit LIHTC/market rate multifamily
	development that will offer one, two, and three-bedroom units in two
	three-story and one two to three-story garden-style residential buildings
	on approximately 5 acres.

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@34.086413449999995,-98.57594038650858,14z</u>



Counties: Wichita County, Texas

# **ENDANGERED SPECIES ACT SPECIES**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 3 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### MAMMALS

NAME	STATUS
Texas Kangaroo Rat Dipodomys elator	Proposed
There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical	Endangered
habitat.	0
Species profile: <u>https://ecos.fws.gov/ecp/species/2985</u>	
Tricolored Bat <i>Perimyotis subflavus</i>	Proposed
No critical habitat has been designated for this species.	Endangered
This species only needs to be considered under the following conditions:	0
• This species only needs to be considered if the project includes wind turbine operations.	
Species profile: https://ecos.fws.gov/ecp/species/10515	

### BIRDS

NAME	STATUS
Piping Plover Charadrius melodus	Threatened
Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except	
those areas where listed as endangered.	
There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.	
This species only needs to be considered under the following conditions:	
<ul> <li>Wind Energy Projects</li> </ul>	
Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u>	
Rufa Red Knot Calidris canutus rufa	Threatened
There is <b>proposed</b> critical habitat for this species.	
<ul><li>This species only needs to be considered under the following conditions:</li><li>Wind Energy Projects</li></ul>	
Species profile: https://ecos.fws.gov/ecp/species/1864	
Whooping Crane <i>Grus americana</i>	Endangered
Population: Wherever found, except where listed as an experimental population	C
There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.	
Species profile: <u>https://ecos.fws.gov/ecp/species/758</u>	
INSECTS	
NAME	STATUS

NAME	
Monarch Butterfly Danaus plexippus	
No critical habitat has been designated for this species.	

Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>

### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Candidate

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

# **BALD & GOLDEN EAGLES**

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

# **MIGRATORY BIRDS**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE

# SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>	Breeds elsewhere
Pectoral Sandpiper <i>Calidris melanotos</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9561</u>	Breeds elsewhere
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9398</u>	Breeds May 10 to Sep 10

# **PROBABILITY OF PRESENCE SUMMARY**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence** (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

#### Breeding Season (=)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

#### Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort − no data

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lesser Yellowlegs BCC Rangewide (CON)	+	-+		-1		+						
Pectoral Sandpiper BCC Rangewide (CON)	+	+		<u>-+-</u> ·		+						
Red-headed Woodpecker BCC Rangewide (CON)	+					•	-	•••				

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

# WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

# **IPAC USER CONTACT INFORMATION**

- Agency: Phase Engineering
- Name: Phase Engineering
- Address: 12414 Nacogdoches Road
- City: San Antonio
- State: TX
- Zip: 78217
- Email hope@phaseengineering.com
- Phone: 8324852227


Species Name - Common (Scientific)	Listing Status	General Habitat Description*	Habitat Present	
Federa	ally Listed ( <u>http</u>	://www.fws.gov/southwest/es/EndangeredSr	<u>ecies Main.html</u> )	
Texas kangaroo Rat ( <i>Dipodomys</i> <i>elator</i> )	Proposed Endangered	They live in underground dens with the entrance at the base or roots of a small mesquite tree. They make trails to their burrows. Texas Kangaroo Rats are highly nocturnal, only coming out when it is completely dark.	No, the vegetation on the subject property has been cleared and does not contain suitable habitat.	
Tricolored Bat ( <i>Perimyotis</i> subflavus)	Proposed Endangered	Known to roost in caves, mines, and road- associated culverts.	No. The subject property does not contain suitable habitat for this species.	
Piping Plover (Charadrius melodus)	Threatened (Wind Energy Projects Only)	Wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats	No. The Project does not include wind energy.	
Red Knot (Calidris canutus rufa)	Threatened (Wind Energy Projects Only)	Migrant of 1,500 miles or more twice annually. Requires stopover habitats rich in easily digested foods of small invertebrates with thin or no shells.	No. The Project does not include wind energy.	
Whooping crane ( <i>Grus</i> americana)	Endangered	Potential migrant via plains throughout most of state to coast. A variety habitats are used during migration, however, wetland mosaics appear to be the most suitable. Winters in coastal marshes of Aransas, Calhoun, and Refugio counties	No. The subject property has no vegetation to attract these large birds.	
Monarch Butterfly ( <i>Danaus</i> <i>plexippus</i> )	Candidate	Milkweed obligate found throughout Texas.	No. The subject property consists of an ag field that is heavily disturbed and would not contain suitable habitat.	
Migratory Birds	pratory Birds Many migratory birds may occur at the subject property. During construction, all active nests should be avoided and if found, a qualified biologist with the USFWS should be notified.			
*Habitat Descriptions from the TPWD ( <u>http://www.tpwd.state.tx.us/huntwild/wild/species/</u> ) and USFWS ( <u>http://ecos.fws.gov/speciesProfile/)</u>				



# Explosives Table

	Facility Address	Capacity (gallons)	Pressurized	Diked/ Undiked	Size of Dike (sq ft)	Contents	Distance to Site (feet)	ASD (feet)	Pass
1	NOV Fiber Glass Systems 1004 Ameron Road, Burkburnett, TX 76354	1,700	No	Undiked	NA	Produced Water Tanks	5,018	344.99	Yes
2	Bulldog Stadium Coutler Dr., Burkburnett, TX 76354	Unknown	No	Diked	30' X 20'	Diesel	1,185	124.96	Yes
3	C&C Self Storage 510 West 3 <sup>rd</sup> Street, Burkburnett, TX 76354	500	Yes	Undiked	NA	Propane	3,645	174.17	Yes

# Acceptable Separation Distance (ASD) Electronic Assessment Tool

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft<sup>2</sup> - hr - people and 10,000 BTU/ft<sup>2</sup> - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD-Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Sitting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

**Note:** Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: 🗹 No: 🗌
Is the container under pressure?	Yes: 🗌 No: 🗹
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: 🗌 No: 🗹
What is the volume (gal) of the container?	1700
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	344.99
ASD for Thermal Radiation for Buildings (ASDBPU)	64.26
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

For mitigation options, please click on the following link: Mitigation Options (/resource/3846/acceptable-separation-distance-asd-hazardmitigation-options/)

#### **Providing Feedback & Corrections**

After using the ASD Assessment Tool following the directions in this User Guide, users are encouraged to provide feedback on how the ASD Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool.

Please send comments or other input using the Contact Us (https://www.hudexchange.info/contact-us/) form.

#### **Related Information**

- ASD User Guide (/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/)
- ASD Flow Chart (/resource/3840/acceptable-separation-distance-asd-flowchart/)

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## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: 🗹 No: 🗌
Is the container under pressure?	Yes: 🗌 No: 🗹
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: 🗹 No: 🗌
What is the volume (gal) of the container?	
What is the Diked Area Length (ft)?	30
What is the Diked Area Width (ft)?	20
Calculate Acceptable Separation Distance	
Diked Area (sqft)	600
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	
ASD for Thermal Radiation for Buildings (ASDBPU)	
ASD for Thermal Radiation for People (ASDPNPD)	124.96
ASD for Thermal Radiation for Buildings (ASDBNPD)	20.98

For mitigation options, please click on the following link: Mitigation Options (/resource/3846/acceptable-separation-distance-asd-hazardmitigation-options/)

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## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: 🗹 No: 🗌
Is the container under pressure?	Yes: 🗹 No: 🗌
Does the container hold a cryogenic liquified gas?	Yes: 🗌 No: 🗹
Is the container diked?	Yes: No:
What is the volume (gal) of the container?	500
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	174.17
ASD for Thermal Radiation for People (ASDPPU)	207.20
ASD for Thermal Radiation for Buildings (ASDBPU)	36.50
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

For mitigation options, please click on the following link: Mitigation Options (/resource/3846/acceptable-separation-distance-asd-hazardmitigation-options/)

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- ASD Flow Chart (/resource/3840/acceptable-separation-distance-asd-flowchart/)



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of statewide importance, if drained
- Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated

- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the
- growing season Farmland of statewide importance, if irrigated and drained

100

- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
   Farmland of statewide importance, if subsoiled.
- completely removing the root inhibiting soil layer Farmland of statewide importance, if irrigated

and the product of I (soil erodibility) x C (climate factor) does not exceed 60

- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated

Farmland of unique importance
 Not rated or not available

#### Soil Rating Points

- Not prime farmland
   All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of statewide importance, if drained
- Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated



	Farmland of statewide importance, if drained and		Farmland of statewide importance, if irrigated		Farmland of unique importance	The soil surveys that comprise your AOI were mapped at 1:20,000.
	either protected from flooding or not frequently flooded during the	_	and reclaimed of excess salts and sodium	U Water Eea	Not rated or not available	Warning: Soil Map may not be valid at this scale.
	growing season		importance, if drained or either protected from		Streams and Canals	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
	importance, if irrigated and drained	flooding or not frequently flooded during the	Transport	ation Rails	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed	
	Farmland of statewide importance, if irrigated		growing season Farmland of statewide	~	Interstate Highways	scale.
	and either protected from flooding or not frequently flooded during the		importance, if warm enough, and either drained or either	~	US Routes	Please rely on the bar scale on each map sheet for map measurements.
_	growing season		protected from flooding or not frequently flooded	~	Major Roads	Source of Map: Natural Resources Conservation Service
	importance, if subsoiled, completely removing the		during the growing season	Backgrou	nd	Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
	root inhibiting soil layer Farmland of statewide		Farmland of statewide importance, if warm	No.	Aerial Photography	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts
	importance, if irrigated and the product of I (soil erodibility) x C (climate		Farmland of statewide importance, if thawed			distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
	factor) does not exceed 60		Farmland of local importance			accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data
			Farmland of local importance, if irrigated			as of the version date(s) listed below.
						Soll Survey Area: Wichita County, Texas Survey Area Data: Version 20, Sep 5, 2023
						Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.
						Date(s) aerial images were photographed: Mar 27, 2021—Mar 28, 2021
						The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



# **Farmland Classification**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
МоВ	Tipton loam, 1 to 3 percent slopes	All areas are prime farmland	4.7	98.7%
ТоА	Tipton loam, 0 to 1 percent slopes	All areas are prime farmland	0.1	1.3%
Totals for Area of Interest			4.8	100.0%

# Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

# **Rating Options**

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



1% Annual Chance Flood Hazard Zone A, AE, AH, AO, AR A99, V, VE

IASE

TRUSTED ENVIRONMENTAL SOLUTIONS

**Regulatory Floodway** 

**FEMA FIRM Panel** 

**PE Project No: 202402008** 

Zone X (Shaded)

Zone D

Area With Reduced Flood Risk Due to

NO SCREEN Area of Minimal Flood Hazard Zone X (Unshaded)

with Flood Risk due to Levee

Area of Undetermined Flood Hazard / Area







MEMORANDUM FOR:	State Historic Preservation Officers (SHPO) and Tribal Historic Preservation Officers (THPO), MAP- and OHP-approved Lenders
FROM:	Kristin Fontenot, Director, Office of Environment and Energy Department Environmental Clearance Officer
	KRISTIN       Digitally signed by KRISTIN FONTENOT         FONTENOT       Date: 2022.12.29 13:34:14 -05'00'
SUBJECT:	Authorization of MAP- and OHP-approved Lenders and Their Authorized Representatives to Initiate Section 106 Consultation For HUD Office of Housing Programs
EFFECTIVE DATES:	January 1, 2023, to December 31, 2027

The Office of Housing at the U.S. Department of Housing and Urban Development (HUD) operates the Federal Housing Administration (FHA), providing mortgage insurance on mortgages for Single Family homes, Multifamily properties, and Healthcare facilities. Within Housing, the Office of Multifamily Housing Programs is responsible for the overall management, development, direction and administration of HUD's Multifamily Housing Programs, and the Office of Health Care Programs is responsible for the administration of HUD's Residential Care programs and Hospital Programs. HUD's FHA Programs are identified by section of the National Housing Act. (The Act.) Sections 220, 221(d)(4), 231, 213 and 241(a) of the Act provide FHA multifamily mortgage insurance for the new construction or substantial rehabilitation of multifamily rental housing. Sections 232 and 242 provide FHA mortgage insurance for new construction or substantial rehabilitation of healthcare facilities and hospitals. The Section 207/223(f) program insures mortgages for the purchase or refinancing of existing rental housing or healthcare facilities which may have been financed originally with conventional mortgages or equity. The Section 223(a)(7) program provides for streamlined refinancing of currently insured FHA loans.

All FHA Multifamily Housing and Healthcare programs must comply with provisions of Section 106 of the National Historic Preservation Act (NHPA) and its implementing regulations, 36 CFR Part 800. In these projects, HUD receives applications from lenders and is responsible for completing environmental and Section 106 reviews under HUD's environmental regulations in 24 CFR Part 50 as part of its underwriting process. Early consideration of Section 106 is necessary to meet program timelines which often overlap with other funding and tax credit deadlines. In order to facilitate the review process, HUD has determined that it is consistent with 36 CFR 800.2(c)(4) for the lenders applying for mortgage insurance under these Programs to initiate Section 106 consultation with State Historic Preservation Officers (SHPOs) and other consulting parties, except for Indian Tribes. Only HUD may conduct consultation with Indian Tribes. For the purposes of this Memorandum, Section 106 consultation may begin once HUD has issued an FHA number. Effective immediately, the Department authorizes Multifamily Accelerated Processing (MAP)- and Office of Healthcare Program (OHP)-approved lenders and their authorized representatives to act on behalf of HUD to consult with SHPOs and other consulting parties, except for Indian Tribes, to initiate the Section 106 review process, identify and evaluate historic properties, and assess effects. Lenders using this option must include a copy of this Memorandum with their submission to SHPO.

If a project involves demolition of a building over 45 years old, new construction in or adjacent to a listed or eligible historic district, substantial ground disturbance<sup>1</sup>, or exterior rehabilitation of a building more than 45 years old, lenders must retain a Qualified Historic Preservation Professional<sup>2</sup> in the discipline relevant to the project activities to prepare submissions to SHPO and manage consultation with interested parties and the public, as well as coordinate with HUD on HUD's consultation with Indian Tribes.

When consulting with the SHPO and others, the lenders or authorized representatives shall identify their project by the HUD program followed by the section of the Act and provide an appropriate contact person at both the lender's organization and the authorized representative hired to coordinate the review.

The lender or authorized representative shall prepare documentation that meets 36 CFR 800.11 (d) or (e) and submit to SHPO for review and concurrence following HUD program guidance (MAP Guide Chapter 9 or Healthcare Mortgage Insurance Program Handbook (4232.1) Chapter 7) and specific SHPO protocols. If SHPO concurs with the finding of effect, the lender may enter the concurrence and supporting documentation into HUD's Environmental Review Online System (HEROS) unless any of the considerations below apply.

HUD will conduct consultation with Indian Tribes following the guidance on tribal consultation in HUD Notice CPD-12-006 and supplemental memorandum<sup>3</sup> and in the MAP Guide and Healthcare Mortgage Insurance Handbook. HUD will consider all tribal comments and will ensure those comments are incorporated into the Section 106 process.

HUD Office of Housing will remain legally responsible for all findings and determinations and will finalize the Section 106 review when completing the environmental review in HEROS.

<sup>&</sup>lt;sup>1</sup> Does not include minor ground disturbance for installing posts for a fence, deck, ramp, handrail, etc.; routine landscaping; or repaving a parking lot or sidewalk.

<sup>&</sup>lt;sup>2</sup> A Qualified Historic Preservation Professional is one who meets the Secretary of the Interior's Professional Qualifications Standards for Archeology, History, Architectural History, Architecture, or Historic Architecture and has substantial experience in conducting Section 106 reviews of historic properties.

<sup>&</sup>lt;sup>3</sup> HUD Notice CPD-12-006 and the Supplemental Memorandum can be found under the heading "Memos and Notices" at https://www.hudexchange.info/programs/environmental-review/historic-preservation/

HUD Office of Housing will participate in the SHPO consultation when:

- It is determined during review that, in accordance with the *Criteria of Adverse Effect*, there may be an adverse effect on a historic property;
- There is a disagreement between the lender or their authorized representatives and the SHPO and/or THPO regarding identification and evaluation of historic properties and/or assessment of effects;
- There is an objection from tribes, consulting parties or the public regarding assessment of effects, the implementation of agreed upon provisions, or their involvement in a Section 106 review;
- There is the potential for a foreclosure situation per 36 CFR 800.9(b) or anticipatory demolition as specified in Section 110(k) of the National Historic Preservation Act; or
- HUD deems the consultation record inadequate.

It is important that Section 106 reviews be conducted within the timeframes set forth in 36 CFR Part 800 and in the Housing Multifamily and Healthcare FHA programs and that the exchange of documentation and consultations between the consulting parties be carried out in a consistent and predictable manner. To this end, HUD will coordinate with its MAP- and OHP-approved lenders to carry out the process set forth in this memorandum. HUD will provide guidance and periodic training on the implementation of the authorization. HUD will also monitor compliance with the authorization and prepare an annual report that summarizes the activities conducted under this authorization and make it publicly available on the HUD website.

If you have any questions regarding compliance with this Memorandum, please contact Sara Jensen, Housing Program Environmental Clearance Officer, at <u>sara.jensen@hud.gov</u> or 206-220-5226. If you have any questions regarding HUD's Historic Preservation Program, please contact HUD's Federal Preservation Officer at EnvironmentalPlanningDivision@hud.gov.

Affirmed by

Date

Roger M. Lukoff

Deputy Assistant Secretary, FHA Office of Healthcare Programs

### **TEXAS HISTORICAL COMMISSION**

### **REQUEST FOR SHPO CONSULTATION:**

#### Section 106 of the National Historic Preservation Act and/or the Antiquities Code of Texas

# Please see instructions for completing this form and additional information on Section 106 and Antiquities Code consultation on the Texas Historical Commission website at <u>http://www.thc.state.tx.us/crm/crmsend.shtml</u>.

This is a new submission.

This is additional information relating to THC tracking number(s): 202300032

Project Information				
PROJECT NAME Burkburnett Royal GardenS				
PROJECT ADDRESS 5.14 acres south of Williams Drive	PROJECT CITY Burkburnett	PI 7(	ROJECT ZIP CODE(S) 6354	
PROJECT COUNTY OR COUNTIES Wichita County				
PROJECT TYPE (Check all that apply)	Densis Debekültetien e	- D		
Site Execution	Addition to Existing Stru	r Renovatic	on of Structure(s)	
Utilities and Infrastructure		of Existing	Structure(s)	
■ New Construction	☐ None of these		Jourdeure(3)	
BRIEF PROJECT DESCRIPTION: Please explain the project in one or two sentences. More details should be included as an attachment to this form. Resubmitting due to changes in property boundary. New construction of 80-unit multi-family complex on approximately 5 acres of previously developed, vacant land. The project will include two 3-story residential buildings and one 2 to 3-story garden-style residential building. Other site developments will include a business center/clubhouse, laundry facility, courtyard area with a pavilion and barbecue pit, fitness center, playground, and recreational areas.				
Project Contact Information				
PROJECT CONTACT NAME Ryan Starr	TITLE Special Projects Manager	ORGANIZA Phase Eng	TION gineering, LLC.	
ADDRESS 5524 Cornish Street	CITY <b>Houston</b>	STATE <b>TX</b>	ZIP CODE <b>77007</b>	
PHONE	EMAIL Ryan@phaseengineering.co	m		
Federal Involvement (Section 106 of the National F	listoric Preservation Act,	)		
Does this project involve approval, funding, permit, or	license from a federal age	ncy?		
Yes (Please complete this section)	No (Skip to next section	on)		
FEDERAL AGENCY U.S. Department of Housing and Urban Development (HUD)	FEDERAL PROGRAM, FUNDING	, OR PERMIT	TYPE	
CONTACT PERSON	PHONE			
ADDRESS	EMAIL			
State Involvement (Antiquities Code of Texas)				
Does this project occur on land or property owned by	the State of Tayan are not	itical aubd	ivision of the state?	
Yes (Please complete this section)	No (Skip to next section	nicai subu on)	ivision of the state?	
CURRENT OR FUTURE OWNER OF THE PUBLIC LAND		,		
CONTACT PERSON	PHONE			
ADDRESS	EMAIL			

Identification of Historic Properties: Archeology				
Does this project involve ground-disturbing activity?				
Yes (Please complete this section)	No (Skip to next see	ction)		
Describe the nature of the ground-disturbing activity, including but not limited to depth, width, and length. Construction of underground utilities, roads, driveways, and concrete foundations.				
Describe the previous and current land use, conditions Subject Property (SP) is currently vacant land with no improve north by Burkburnett Masonic Lodge, single-family residentia the south by Overton Ray Elementary School; and to the west	s, and disturbances. ements since at least mid- ′ I property, and auto facilitie by single-family residentia	1980s. The prop s; the east by u I properties.	perty is bound to the ndeveloped land; to	
Identification of Historic Properties: Structures				
Does the project area or area of potential effects includ features (such as parks or cemeteries) that are 45 year	de buildings, structures, rs of age or older?	or designed la	andscape	
Yes (Please complete this section)	No (Skip to next see	ction)		
Is the project area or area of potential effects within or eligible for listing in the National Register of Historic Pl	adjacent to a property c aces?	or district that i	s listed in or	
Yes, name of property or district: Burkburnett Masoni	c Lodge 1027	🗌 No	Unknown	
In the space below or as an attachment, describe each project area or area of potential effect that is 45 years	n building, structure, or la of age or older.	andscape feat	ure within the	
ADDRESS 203-213 (odds) West Williams Drive (West Adjoining)	DATE OF CONSTRUCTION 1930-1950	SOURCE FOR ( Wichita Count	CONSTRUCTION DATE	
ADDRESS	DATE OF CONSTRUCTION	SOURCE FOR (	CONSTRUCTION DATE	
ADDRESS	DATE OF CONSTRUCTION	SOURCE FOR C	CONSTRUCTION DATE	
Attachments	For	SHPO Use O	nly	
Please see detailed instructions regarding attachments	<u>s</u> .		-	
Include the following with each submission:				
Photographs				
For Section 106 reviews only, also include:				
Area of Potential Effects				
Submit completed form and attachments to the address below. Faxes and email are not acceptable				
Mark Wolfe				
State Historic Preservation Officer				
P.O. Box 12276, Austin TX 78711-2276 (mail service)				
108 W. 16th Street, Austin, TX 78701 (courier service)				

From:	noreply@thc.state.tx.us
То:	Hailey Farmer; reviews@thc.state.tx.us
Subject:	Section 106 Submission
Date:	Friday, September 9, 2022 7:04:56 AM



Re: Project Review under Section 106 of the National Historic Preservation Act THC Tracking #202300032 Date: 09/09/2022 Burkburnett Royal Garden 5 acres south of Williams Drive Burkburnett,TX 76354

**Description:** New construction of 80-unit multi-family complex on 5 acres previously developed, vacant land.

Dear Hailey Farmer:

Thank you for your submittal regarding the above-referenced project. This response represents the comments of the State Historic Preservation Officer, the Executive Director of the Texas Historical Commission (THC), pursuant to review under Section 106 of the National Historic Preservation Act.

The review staff, led by Charles Peveto and Arlo McKee, has completed its review and has made the following determinations based on the information submitted for review:

#### **Above-Ground Resources**

• No historic properties are present or affected by the project as proposed. However, if historic properties are discovered or unanticipated effects on historic properties are found, work should cease in the immediate area; work can continue where no historic properties are present. Please contact the THC's History Programs Division at 512-463-5853 to consult on further actions that may be necessary to protect historic properties.

#### **Archeology Comments**

• No historic properties affected. However, if cultural materials are encountered during construction or disturbance activities, work should cease in the immediate area; work can continue where no cultural materials are present. Please contact the THC's Archeology Division at 512-463-6096 to consult on further actions that may be necessary to protect the cultural remains.

We look forward to further consultation with your office and hope to maintain a partnership that will foster effective historic preservation. Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. If the project changes, or if new historic properties are found, please contact the review staff. If you have any questions concerning our review or if we can be of further assistance, please email the following reviewers: charles.peveto@thc.texas.gov, Arlo.McKee@thc.texas.gov.

This response has been sent through the electronic THC review and compliance system (eTRAC). Submitting your project via eTRAC eliminates mailing delays and allows you to check the status of the review, receive an electronic response, and generate reports on your submissions. For more information, visit <u>http://thc.texas.gov/etrac-system</u>.

Sincerely,



for Mark Wolfe, State Historic Preservation Officer Executive Director, Texas Historical Commission

#### Please do not respond to this email.

This email has been scanned for spam and viruses by Proofpoint Essentials. Click <u>here</u> to report this email as spam.







### **Topographic Map**

The U.S. Geological Survey (USGS) produced its first topographic map in 1879, the same year it was established. Today, more than 100 years and millions of map copies later, topographic mapping is still a central activity for the USGS. The topographic map remains an indispensable tool for government, science, industry, and leisure.

Topographic maps usually portray both natural and manmade features. They show and name works of nature including mountains, valleys, plains, lakes, rivers, and vegetation. They also identify the principal works of man, such as roads, boundaries, transmission lines, and major buildings. The colors represent the following: Contours - brown, Hydrography - blue, Public Land Survey System and other surveys - red, Updates - purple/magenta, Miscellaneous - black, and Vegetation - green.

USGS 7.5 Minute Topographic Series Burkburnett, 2019



PEI Project No: 202208134



ame: F:\Land Development/2068/2068-207 2022 Tax Credit Sites\DATA\C/NL\07 - Burkturmett - Pioneer Crossing\C1.0 S\TE PLAN.dwg Plotted: 2/26/2022 2/07:30 PM Plot Device: None Page Setup: --- Plotted by: Thurman Parsor



— P—8"W



1. North adjoining property (Burkburnett Masonic Lodge)



2. West adjoining property (single-family residential property)



3. View south along the western property boundary



4. View east along the southern property boundary



5. South adjoining property (Overton Ray Elementary School)



6. View northeast across subject property



7. View north along the eastern property boundary



8. East adjoining property (undeveloped land)



9. North adjoining property (single-family residential property)



10. View west along the northern property boundary



11. North adjoining property (Vacant office building)



12. West adjoining property (single-family residential property)



13. View south along the western property boundary



14. West adjoining property (single-family residential property)



420 105 210 630 1:4,000

2015 TOP Orthoimagery



0

PEI Project No: 202208134

NORTH










# **Topographic Map**

The U.S. Geological Survey (USGS) produced its first topographic map in 1879, the same year it was established. Today, more than 100 years and millions of map copies later, topographic mapping is still a central activity for the USGS. The topographic map remains an indispensable tool for government, science, industry, and leisure.

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USGS 7.5 Minute Topographic Series Burkburnett, 1981



PEI Project No: 202208134



# **Topographic Map**

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USGS 15 Minute Topographic Series Burkburnett, 1957



PEI Project No: 202208134



# **Topographic Map**

The U.S. Geological Survey (USGS) produced its first topographic map in 1879, the same year it was established. Today, more than 100 years and millions of map copies later, topographic mapping is still a central activity for the USGS. The topographic map remains an indispensable tool for government, science, industry, and leisure.

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USGS 7.5 Minute Topographic Series Buckburnett, 1918



PEI Project No: 202208134

# Burkburnett Royal Gardens- 202208134



September 1, 2022

Historical Marker



Sources: Esri, HERE, Garmin, FAO, NOAA, USGS,  $\circledast$  OpenStreetMap contributors, and the GIS User Community

TEXAS HISTORICAL COMMISSION TEXAS HISTORIC SITES ATLAS

TEXAS HISTORICAL COMMISSION REAL PLACE TELLING REAL STORIES

HOME (/)	ATLAS MAP (/MAP)	ADVANCED SEARCH	ABOUT ATLAS	DOWNLOADS	
		(/ADVANCEDSEARCH)	(/ABOUT)	(/DATA/DATADOWNLOAD)	

Details for Burkburnett Masonic Lodge 1027

Historical Marker — Atlas Number 5507018161

# Data

Marker Number	18161
Atlas Number	5507018161
Marker Title	Burkburnett Masonic Lodge 1027
Index Entry	Burkburnett Masonic Lodge 1027
Address	119 W. Williams Dr
City	Burkburnett
County	Wichita
UTM Zone	
UTM Easting	
UTM Northing	
Subject Codes	counties
Marker Year	2015
Recorded Texas Historic Landmark	No
Private Property	No
Marker Location	
Marker Condition	In Situ
Marker Size	18" x 28" with post
Marker Text	The Burkburnett Masonic Lodge no. 1027 AF & AM was chartered in 1910, only three years after the city's founding. J.A.D. Smith, W.O. Willingham and S. Hawkins were among the founders. Eastern Star formed in 1921. By the 1930s, it could claim 400 members in a town of only 3200. Eight District Deputy Grand Masters and an imperial potentate of the shrine came from the Burkburnett Lodge. The lodge continues a tradition of community service through education and charitable activities locally and statewide. It laid cornerstones at six buildings in Burkburnett, including First United Methodist Church, Burkburnett Library and Burkburnett Schools.

ATLAS\_NUM=5507018161

Location Map









September 1, 2022

Wichita County Robert Palmer Wichita County Historical Commission 1500 Quail Valley Road Iowa Park, Texas 76367 robertpalmerfarms@yahoo.com

### *Re: Invitation to Comment as a Consulting Party Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354; Phase Engineering Project No. 202208134*

Dear Mr. Palmer:

The Texas Department of Housing and Community Affairs (TDHCA) is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the TDHCA has assumed HUD's environmental review responsibilities for the project, including consultation related to historic properties.

On behalf of the TDHCA, Phase Engineering, LLC is conducting a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

Enclosed is a map that shows the project area and, if applicable, an additional area of potential indirect effects. The proposed project, Burkburnett Royal Gardens, is an 80-unit residential development for families with mixed incomes at or below 60% of the area median, as well as market-rate units. The project will include two 3-story residential buildings and one 2 to 3-story garden-style residential building. Other site developments will include a business center/clubhouse, laundry facility, courtyard area with a pavilion and barbeque pit, fitness center, playground, and recreational areas. The development will also include 171 spots of flat surface parking and a detention pond. The property is currently undeveloped land bound to the north by Burkburnett Masonic Lodge, single-family residential property, and auto facilities; the east by undeveloped land; to the south by Overton Ray Elementary School; and to the west by single-family residential properties.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response? More information on the Section 106 review process is available at <a href="http://www.onecpd.info/environmental-review/historic-preservation/">http://www.onecpd.info/environmental-review/historic-preservation/</a>.



Thank you very much. We value your assistance and look forward to consulting further if there are historic properties that may be affected by this project.

Sincerely,

Hailer ~

Hailey Farmer Special Projects Analyst Phase Engineering, LLC 832-485-2249 haileyf@phaseengineering.com

cc: SHPO

Attachments:

Site Location Maps

# Wichita CAD

# Property Search > 119869 EVERETT JAMIE R for Year 2022

Tax Year: 2022

Property

Account									
Property ID:	119869			Legal Description:	LOT 8 BLK 1 WILLIAMS PET. CC	).			
Geographic ID:	5M010090000			Zoning:	SF - 6 - SINGLE FAMILY-6 (6000	SF LOTS)			
Туре:	Real			Agent Code:					
Property Use Code:									
Property Use Descrip	tion:								
Location									
Address:	203 W WILLIAMS	5 DR		Mapsco:	38-58				
Neighborhood:	ORIGINAL TOWN	I BURK		Map ID:					
Neighborhood CD:	500								
Owner									
Name:	EVERETT JAMIE	R		Owner ID:	91780				
Mailing Address:	203 W WILLIAM BURKBURNETT,	5 DR FX 76354		% Ownership:	100.000000000%				
				Exemptions:	HS				
/alues									
(+) Improvement H	omesite Value:	+	\$104,825	i					
(+) Improvement N	+	\$0	)						
(+) Land Homesite	Value:	+	\$5,796	;					
(+) Land Non-Hom	esite Value:	+	\$0	Ag / Timber Us	e Value				
(+) Agricultural Ma	rket Valuation:	+	\$0	)	\$0				
(+) Timber Market	Valuation:	+	\$0	)	\$0				
. ,									
(=) Market Value:		=	\$110,621						
(–) Ag or Timber Us	se Value Reduction:	_	\$0	)					
(=) Appraised Value	2:	=	\$110.621						
(–) HS Cap:		_	\$11.915						
( )									
(=) Assessed Value:		=	\$98,706	;					
axing Jurisdiction									
Owner: EVI	ERETT JAMIE R								
% Ownership: 100	).000000000%								
Total Value: \$11	10,621								
Entity Descript	tion		Tax Rate	Appraised Value	Taxable Value	Estimated Tax			
03 BURKBUF	RNETT CITY		0.714521	\$110,621	\$98,706	\$705.27			
04 BURKBUR	RNETT ISD		1.340000	\$110,621	\$58,706	\$786.66			
12 WICHITA	COUNTY		0.613841	\$110,621	\$98,706	\$605.90			
CAD WICHITA	CAD		0.00000	\$110 621	<u>\$98</u> 706	\$0.00			

CAD	WICHITA CAD	0.000000	\$110,621	\$98,706	\$0.00
	Total Tax Rate:	2.668362			
			Taxes w/0	Current Exemptions:	\$2,097.83
			Taxes w/o	Exemptions:	\$2,951.77

Improvement	#1: SINGLE FAMILY S	tate Code:	A1 Living	<b>Area:</b> 179	0.0 sqft <b>Value:</b> \$104,825
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
LV	LIVING AREA	WV - 03		1950	1790.0
AG	ATTACHED GARAGE	WV - 03		1950	560.0
DG	DETACHED GARAGE	S - 01		1950	800.0
PCVP	COVERED PORCH	WV - 03			112.0
ORUB	UTILITY BLDG	* - UTL			80.0
IMHV	МН НООКИР	INF - *		0	1.0

Land

#	Туре	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	SINGLE FAMILY	0.5785	25199.46	126.00	200.00	\$5,796	\$0

#### **Roll Value History**

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$104,825	\$5,796	0	110,621	\$11,915	\$98,706
2021	\$84,894	\$5,796	0	90,690	\$957	\$89,733
2020	\$75,779	\$5,796	0	81,575	\$0	\$81,575
2019	\$73,925	\$5,796	0	79,721	\$0	\$79,721
2018	\$71,375	\$5,796	0	77,171	\$0	\$77,171
2017	\$71,867	\$5,796	0	77,663	\$0	\$77,663
2016	\$72,775	\$9,702	0	82,477	\$0	\$82,477
2015	\$72,763	\$9,702	0	82,465	\$0	\$82,465
2014	\$73,498	\$9,702	0	83,200	\$0	\$83,200
2013	\$74,114	\$9,702	0	83,816	\$0	\$83,816
2012	\$74,114	\$9,702	0	83,816	\$0	\$83,816
2011	\$74,796	\$10,672	0	85,468	\$0	\$85,468
2010	\$73,166	\$10,672	0	83,838	\$0	\$83,838
2009	\$73,166	\$10,672	0	83,838	\$0	\$83,838

#### **Deed History - (Last 3 Deed Transactions)**

#	Deed Date	Туре	Description	Grantor	Grantee	Volume	Page	Deed Number
1	6/5/2014	WD	WARRANTY DEED	SLAYDEN MARY SUZANNE	EVERETT JAMIE R	3979	51	8111
2	6/3/2009	AH	AFFIDAVIT OF HEIRSHIP	BURNETT BILLIE J	SLAYDEN MARY SUZANNE	3965	332	5617
3	1/1/1990	WD	WARRANTY DEED	BURNETT BILLIE J & M	BURNETT BILLIE J	1525	29	99288

Tax Due

#### Property Tax Information as of 09/01/2022

Amount Due if Paid on:

Year	Taxing	Taxable	Base	Base Taxes	Base Tax	Discount / Penalty &	Attorney	Amount
	Jurisdiction	Value	Tax	Paid	Due	Interest	Fees	Due

NOTE: Penalty & Interest accrues every month on the unpaid tax and is added to the balance. Attorney fees may also increase your tax liability if not paid by July 1. If you plan to submit payment on a future date, make sure you enter the date and RECALCULATE to obtain the correct total amount due.

# Wichita CAD

# Property Search > 119870 KELLY SUE A for Year 2022

Tax Year: 2022

Property

Account									
Property II	D: 1:	19870			Legal Des	scription: LOT 9	BLK 1 WILLIA	MS PET. CO.	
Geographi	ic ID: 51	M010100000			Zoning:	SF - 6 -	- SINGLE FAM	ILY-6 (6000 SF LOTS)	
Type:	R	eal			Agent Co	de:			
Property U	Jse Code:								
Property U	Jse Description:								
Location	1								
Address:	20	07 W WILLIAMS	DR		Mapsco:	38-58			
Neighborh	nood: O	RIGINAL TOWN	BURK		Map ID:				
Neighborh	nood CD: 50	00							
Owner									
Name:	KI	ELLY SUE A			Owner ID	: 10881	2		
Mailing Ac	ddress: 20	07 W WILLIAMS	DR	506	% Owners	ship: 100.00	00000000%		
	D	URRDURINETT, T	A 70554-20	500	Exemptio	ns: HS. OT	THFR		
					2//0/1910				
/alues									
(+) Impro	vement Homesit	e Value:	+	\$71,85	3				
(+) Impro	vement Non-Hor	mesite Value:	+	\$	0				
(+) Land H	Homesite Value:		+	\$5 <i>,</i> 52	0				
(+) Land I	(+) Land Non-Homesite Value: +			\$	0 Ag/Tir	mber Use Value			
(+) Agricu	+) Agricultural Market Valuation:		+	\$0 \$0					
(+) Timbe	er Market Valuatio	on:	+	\$	0	\$0			
(=) Marke	et Value:		=	\$77,37	3				
(–) Ag or	Timber Use Value	Reduction:	-	\$	0				
(=) Appra	ised Value:		=	\$77,37	3				
(–) HS Ca	р:		-	\$7,87	9				
(=) Assess	sed Value:		=	\$69,49	4				
axing Juri	ISDICTION								
Owner:	KELLY SUE	А							
% Owner	ship: 100.0000	00000%							
Total Valu	ue: \$77,373								
Entity	Description		Tax F	Rate Appraise	ed Value	Тах	able Value	Estimated Tax	Tax Ceiling
03	BURKBURNETT CI	ТҮ	0.714	521	\$77,373		\$61,994	\$442.96	
04	BURKBURNETT IS	D	1.340	000	\$77,373		\$19,494	\$261.22	\$471.85
12	WICHITA COUNTY	/	0.613	841	\$77,373		\$51,494	\$316.09	
CAD	WICHITA CAD		0.000	000	\$77,373		\$69,494	\$0.00	
	Total Tax Rate:		2.668	362					
						Taxes w/Current	Exemptions:	\$1.020.27	

Taxes w/o Exemptions:

\$2,064.59

#### Improvement / Building

Improvement	<b>#1:</b> SINGLE FAMILY	State Code:	A1 Living A	rea: 147	72.0 sqft Value: \$71,853
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
LV	LIVING AREA	WW - 03		1930	1472.0
AG	ATTACHED GARAGE	WW - 03		1930	288.0

Land

#	Туре	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	SINGLE FAMILY	0.5280	22999.68	115.00	200.00	\$5,520	\$0

#### **Roll Value History**

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$71,853	\$5,520	0	77,373	\$7,879	\$69,494
2021	\$58,165	\$5,520	0	63,685	\$509	\$63,176
2020	\$51,913	\$5,520	0	57,433	\$0	\$57,433
2019	\$50,961	\$5,520	0	56,481	\$0	\$56,481
2018	\$49,155	\$5,520	0	54,675	\$0	\$54,675
2017	\$49,675	\$5,520	0	55,195	\$0	\$55,195
2016	\$62,237	\$8,855	0	71,092	\$0	\$71,092
2015	\$62,334	\$8,855	0	71,189	\$0	\$71,189
2014	\$62,964	\$8,855	0	71,819	\$0	\$71,819
2013	\$61,815	\$8,855	0	70,670	\$0	\$70,670
2012	\$62,685	\$8,855	0	71,540	\$0	\$71,540
2011	\$61,721	\$9,298	0	71,019	\$0	\$71,019
2010	\$63,265	\$9,298	0	72,563	\$0	\$72,563
2009	\$32,836	\$9,298	0	42,134	\$0	\$42,134

#### **Deed History - (Last 3 Deed Transactions)**

#	Deed Date	Туре	Description	Grantor	Grantee	Volume	Page	Deed Number
1	5/19/2010	WD	WARRANTY DEED	MULLINS HOMES LLC	KELLY SUE	3492	280	8723
2	3/31/2009	WD	WARRANTY DEED	PARISH GLORIA	MULLINS HOMES LLC	3351	738	6139
3	9/1/1983	WD	WARRANTY DEED	MARTIN TERRY EUGENE	PARISH GLORIA	1363	506	90993

**Tax Due** 

Property Tax Information as of 09/01/2022

Amount Due if Paid on:

Jurisdiction Value Tax Paid Due Interest Fees Due	Year	Taxing Jurisdiction	Taxable Value	Base Tax	Base Taxes Paid	Base Tax Due	Discount / Penalty & Interest	Attorney Fees	Amount Due
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NOTE: Penalty & Interest accrues every month on the unpaid tax and is added to the balance. Attorney fees may also increase your tax liability if not paid by July 1. If you plan to submit payment on a future date, make sure you enter the date and RECALCULATE to obtain the correct total amount due.

Questions Please Call (940) 322-2435

# Wichita CAD

Property Search > 119871 JACKSON GEORGE W JR ETUX LINDA (L/E) for Year Tax Year: 2022 2022

Property

		0 7145 21		to2 202	676 046	¢E 40.90	
Entity Description		Tax Rate	Appraised	d Value	Taxable Value	Estimated Tax	Tax Ceiling
% Ownership: 100.000   Total Value: \$93,292	00000000%		·/				
			/E)				
ing Jurisdiction							
(=) Assessed Value:	:	=	\$84,446				
(–) HS Cap:	-	_	\$8,846				
(=) Appraised Value:	:	=	\$93,292				
(–) Ag or Timber Use Va	lue Reduction:	-	\$0				
(=) Market Value:	:	=	\$93,292				
(+) Timber Market Valua	ation:	+	\$0		\$0		
(+) Agricultural Market	Valuation:	+	\$0		\$0		
(+) Land Non-Homesite	Value:	+	\$0	Ag / Timber Use	e Value		
(+) Land Homesite Valu	e:	+	\$5,520				
(+) Improvement Home (+) Improvement Non-H	site Value:	+ +	\$87,772 \$0				
alues							
				Exemptions:	HS, OTHER		
Mannig Address.	BURKBURNETT, TX	76354		70 Ownership.	100.000000000000		
Name: Mailing Address:		W JR ETUX LIN	IDA (L/E)	Owner ID:	251217		
Owner							
Neighborhood CD:	500						
Neighborhood:	ORIGINAL TOWN E	BURK		Map ID:			
Address:	209 W WILLIAMS I	DR		Mapsco:	38-58		
Location							
Property Use Description:							
Property Use Code:	Real			Agent couc.			
Geographic ID:	5M010110000			Zoning:	SF - 6 - SINGLE FAM	LY-6 (6000 SF LOTS)	
	1198/1						

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax	Tax Ceiling
03	BURKBURNETT CITY	0.714521	\$93,292	\$76,946	\$549.80	
04	BURKBURNETT ISD	1.340000	\$93,292	\$34,446	\$0.00	\$0.00
12	WICHITA COUNTY	0.613841	\$93,292	\$66,446	\$407.87	
CAD	WICHITA CAD	0.000000	\$93,292	\$84,446	\$0.00	
	Total Tax Rate:	2.668362				
				Taxes w/Current Exemptions:	\$957.67	
				Taxes w/o Exemptions:	\$2,489.37	

# Improvement / Building

Improvement	#1: SINGLE FAMILY	State Code:	A1 Living Ar	<b>ea:</b> 162	4.0 sqft Value: \$87,772
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
LV	LIVING AREA	WW - 03		1940	1624.0
DG	DETACHED GARAGE	WW - 02		1940	616.0
ССР	CARPORT	FAIR - *		0	400.0
PCVP	COVERED PORCH	WW - 03			60.0
PCVP	COVERED PORCH	WW - 03			15.0
IMHV	MH HOOKUP	INF - *		0	1.0
ССР	CARPORT	LOW - *		2018	540.0

Land

#	Туре	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	SINGLE FAMILY	0.5280	22999.68	115.00	200.00	\$5,520	\$0

**Roll Value History** 

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$87,772	\$5,520	0	93,292	\$8,846	\$84,446
2021	\$71,249	\$5,520	0	76,769	\$0	\$76,769
2020	\$64,411	\$5,520	0	69,931	\$0	\$69,931
2019	\$63,726	\$5,520	0	69,246	\$0	\$69,246
2018	\$57,703	\$5,520	0	63,223	\$0	\$63,223
2017	\$58,030	\$5,520	0	63,550	\$0	\$63,550
2016	\$55,764	\$8,855	0	64,619	\$0	\$64,619
2015	\$55,924	\$8,855	0	64,779	\$0	\$64,779
2014	\$56,489	\$8,855	0	65,344	\$0	\$65,344
2013	\$56,104	\$8,855	0	64,959	\$0	\$64,959
2012	\$56,180	\$8,855	0	65,035	\$0	\$65,035
2011	\$56,696	\$9,741	0	66,437	\$0	\$66,437
2010	\$57,193	\$9,741	0	66,934	\$0	\$66,934
2009	\$57,193	\$9,741	0	66,934	\$0	\$66,934

Deed History - (Last 3 Deed Transactions)

#	Deed Date	Туре	Description	Grantor	Grantee	Volume	Page	Deed Number
1	4/18/2016	WD	WARRANTY DEED	JACKSON GEORGE W JR ETUX LINDA	JACKSON GEORGE W JR ETUX LINDA (L/E)			6286
2	4/18/2016	WD	WARRANTY DEED	HOWELL CECIL R & LESLIE D HOWELL	JACKSON GEORGE W JR ETUX LINDA			6285
3	7/9/2010	WD	WARRANTY DEED	HOWELL CECIL RAY	HOWELL CECIL R & LESLIE D HOWELL	3510	568	12219

Tax Due

Property Tax Information as of 09/01/2022

Amount Due if Paid on:

Year	Taxing Jurisdiction	Taxable Value	Base Tax	Base Taxes Paid	Base Tax Due	Discount / Penalty & Interest	Attorney Fees	Amount Due	
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# Wichita CAD

# Property Search > 119872 KOCSIS STEPHEN for Year 2022

Tax Year: 2022

Property

Account										
Property II	D:	119872				Legal De	scription:	LOT 11 BLK 1 WILL	IAMS PET. CO.	
Geographi	ic ID:	5M010120000				Zoning:		SF - 6 - SINGLE FAN	/ILY-6 (6000 SF LOTS)	
Type:		Real				Agent Co	ode:			
Property U	Jse Code:									
Property U	Jse Description:									
Location	1									
Address:		213 W WILLIAMS	S DR			Mapsco:		38-58		
Neighborh	nood:	ORIGINAL TOWN	N BUR	К		Map ID:				
Neighborh	nood CD:	500								
Owner										
Name:		KOCSIS STEPHEN				Owner I	D:	36624		
Mailing Ac	ddress:	213 W WILLIAMS	S DR	354-2607		% Owner	ship:	100.000000000%		
		bonnbonntern,		2007		Exemptio	ons:	OTHER, HS		
/alues										
(+) Impro	vement Home	site Value:	+		\$55,899					
(+) Impro	vement Non-F	Iomesite Value	+		رودی ۱۵					
(+)   and +	Homesite Value		+		ېږ غد U2e					
	Non-Homosito	Value:	، ب		20,020 co		mborlis	Value		
		value.	- -		ې د م	~g / 11	inder USE			
(+) Agricu			+		\$0			ŞU ¢Q		
(+) Limbe	er Market Valua	iπon:	+		Ş0 			ŞU		
(=) Marke	et Value:		=		\$61,925					
(–) Ag or	Timber Use Va	lue Reduction:	-		\$0					
(=) Annra	ised Value:		-		\$61 925					
	n'		_		¢5 077					
(-) 113 Cd	<b>ь</b> .		-		//وردې					
(=) Assess	sed Value:		=		\$55,948					
axing Juri	isdiction									
Owner:	KOCSIS	STEPHEN								
% Owner	ship: 100.000	000000%								
Total Valu	ue: \$61.925									
Entity	Description			Tay Pate	Annraiso	d Value		Tavable Value	Estimated Tax	Tax Ceiling
03				0 71/1521	Ahhigised	\$61 925			¢2//6 17	Tax Celling
04	BURKBURNET			1 3/0000		\$61 075		ې+0,440 ¢۲ ۵۸۵	¢۵ ۵۵	\$0.00
12				0.6120/1		\$61 075		ې5,548 د م م د د ک	¢.00	ې0.00 
		NTT		0.015841		\$61 07E		ې۲,۶48 د د د م	\$232.94	
CAD				0.000000		\$01,972		۶۵۵,۶48	ŞU.UU	
	iotal lax kate:			2.008362			Taylor	Current Francistics	6530 44	
							iaxes w/0	Lurrent Exemptions:	\$5/9.11	
							Taxes w/o	D Exemptions:	\$1,652.38	

```
Improvement / Building
```

Improvement	#1: SINGLE FAMILY	State Code:	A1 Living A	rea: 1232	2.0 sqft Value: \$55,899
Туре	Description	Class CD	Exterior Wall	Year Built	SQFT
LV	LIVING AREA	WW - 02.5		1940	1232.0
DG	DETACHED GARAGE	WW - 02		1940	484.0

#### Land

#	Туре	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	A1	SINGLE FAMILY	0.6015	26201.34	131.00	200.00	\$6,026	\$0

#### **Roll Value History**

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap	Assessed
2023	N/A	N/A	N/A	N/A	N/A	N/A
2022	\$55,899	\$6,026	0	61,925	\$5,977	\$55,948
2021	\$48,683	\$6,026	0	54,709	\$3,847	\$50,862
2020	\$40,212	\$6,026	0	46,238	\$0	\$46,238
2019	\$39,825	\$6,026	0	45,851	\$0	\$45,851
2018	\$38,952	\$6,026	0	44,978	\$0	\$44,978
2017	\$38,107	\$6,026	0	44,133	\$0	\$44,133
2016	\$35,701	\$10,087	0	45,788	\$0	\$45,788
2015	\$35,776	\$10,087	0	45,863	\$0	\$45,863
2014	\$36,137	\$10,087	0	46,224	\$0	\$46,224
2013	\$36,182	\$10,087	0	46,269	\$0	\$46,269
2012	\$36,182	\$10,087	0	46,269	\$0	\$46,269
2011	\$36,487	\$11,096	0	47,583	\$0	\$47,583
2010	\$36,849	\$11,096	0	47,945	\$0	\$47,945
2009	\$36,849	\$11,096	0	47,945	\$654	\$47,291

#### **Deed History - (Last 3 Deed Transactions)**

#	Deed Date	Туре	Description	Grantor	Grantee	Volume	Page	Deed Number
1	7/16/2022	WD	WARRANTY DEED	KOCSIS STEPHEN	KOCSIS STEPHEN (L/E)			202210537
2	4/1/1996	WD	WARRANTY DEED	KOCSIS STEPHEN ETUX	KOCSIS STEPHEN	1858	151	8672
3	4/1/1985	WD	WARRANTY DEED	JOHNSON CURTIS L	KOCSIS STEPHEN ETUX LEONA	1403	155	93092

**Tax Due** 

Property Tax Information as of 09/01/2022

Amount Due if Paid on:

Year	Taxing	Taxable	Base	Base Taxes	Base Tax	Discount / Penalty &	Attorney	Amount
	Jurisdiction	Value	Tax	Paid	Due	Interest	Fees	Due

NOTE: Penalty & Interest accrues every month on the unpaid tax and is added to the balance. Attorney fees may also increase your tax liability if not paid by July 1. If you plan to submit payment on a future date, make sure you enter the date and RECALCULATE to obtain the correct total amount due.

Questions Please Call (940) 322-2435



# **Tribal Directory Assessment Information**



#### Contact Information for Tribes with Interests in Wichita County, Texas

	Tribal Name					County Name				
-	Apache Tribe of Oklahoma					Wichita				
Contact	Name	Title	Mailing Address	Work Phone	Fax	Number	Cell Phone	Email Address	URL	
Bobby	Komardley	Chairman	PO Box 1330 Anadarko, OK 73005	(405) 247-9493	(40	5) 247-2763		bkomardley@outlo ok.com	http://www.apachet ribe.org/	
-	Caddo Natior	n of Oklahoma				Wichita				
Contact	Name	Title	Mailing Address	Work Phone	Fax	Number	Cell Phone	Email Address	URL	
Jonath	an Rohrer	ТНРО	PO Box 487 Binger, OK 73009	(405) 656-0970, ext. 2070				jrohrer@mycaddon ation.com		
Tamara	a Francis	Chairperson	PO Box 487 Binger, OK 73009	(405) 656-2344	(40	5) 656-2892		tffourkiller.cn@gmai I.com		
-	Comanche N	ation, Oklahoma				Wichita				
Contact	Name	Title	Mailing Address	Work Phone	Fax	Number	Cell Phone	Email Address	URL	
Mark Woom	mavovah	Chairman	PO Box 908 Lawton, OK 73502	(580) 492-3240				jennifer.rodriguez@ comanchenation.co m	www.comanchenati on.com	
Martin	a Minthorn	THPO	6 SW D Avenue Lawton, OK 73502	(580)595-9618	(58	0) 595-9733		martina.minthorn@ comanchenation.co m	www.comanchenati on.com	
-	Tonkawa Trib	e of Indians of Oklah	oma			Wichita				
Contact	Name	Title	Mailing Address	Work Phone	Fax	Number	Cell Phone	Email Address	URL	
Russe	ll Martin	President	1 Rush Buffalo Road Tonkawa, OK 74653	(580) 628-2561	(58	0) 628-3378		rmartin@tonkawatri be.com	http://www.tonkawa tribe.com/	
Laurer Brown	Norman-	THPO	1 Rush Buffalo Road Tonkawa, OK 74653	(580) 628-7027	(58	0) 628-7027		lbrown@tonkawatri be.com	http://www.tonkawa tribe.com/	
-	Wichita and	Affiliated Tribes (Wic	hita, Keechi, Waco 8	a Tawakonie), Oklaho	ma	Wichita				
Contact	Name	Title	Mailing Address	Work Phone	Fax	Number	Cell Phone	Email Address	URL	
Terri P	arton	President	PO Box 729 Anadarko, OK 73005	(405) 247-2425	(40	5) 247-2430		Terri.Parton@wichit atribe.com	http://www.wichitatr ibe.com/	
Gary N	/IcAdams	THPO	Wichita and Affiliated Tribes PO Box 729 Anadarko, OK 73005	(405) 247-8695 ext. 200				gary.mcadams@wi chitatribe.com	http://www.wichitatr ibe.com/	
1 - 5 of	5 results								« < 1 > » 10 ❤	

### **Ryan Starr**

From: Sent: To: Subject: noreply@thc.state.tx.us Friday, May 10, 2024 10:30 AM Ryan Starr; reviews@thc.state.tx.us Burkburnett Royal Gardens



Re: Project Review under Section 106 of the National Historic Preservation Act THC Tracking #202409510 Date: 05/10/2024 Burkburnett Royal Gardens 5.14 acres South of Williams Drive Burkburnett,TX 76354

**Description:** This is an updated request from THC No. 202300032 - our firm submitted this Sec106, however we no longer have access to that account. Boundary now include "tail" for water utility connection.

#### Dear Ryan Starr:

Thank you for your submittal regarding the above-referenced project. This response represents the comments of the State Historic Preservation Officer, the Executive Director of the Texas Historical Commission (THC), pursuant to review under Section 106 of the National Historic Preservation Act.

The review staff, led by Charles Peveto and Danielle Julien, has completed its review and has made the following determinations based on the information submitted for review:

#### **Above-Ground Resources**

• No historic properties are present or affected by the project as proposed. However, if historic properties are discovered or unanticipated effects on historic properties are found, work should cease in the immediate area; work can continue where no historic properties are present. Please contact the THC's History Programs Division at 512-463-5853 to consult on further actions that may be necessary to protect historic properties.

#### **Archeology Comments**

• No historic properties affected. However, if cultural materials are encountered during construction or disturbance activities, work should cease in the immediate area; work can continue where no cultural materials are present. Please contact the THC's Archeology Division at 512-463-6096 to consult on further actions that may be necessary to protect the cultural remains.

We look forward to further consultation with your office and hope to maintain a partnership that will foster effective historic preservation. Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. If the project changes, or if new historic properties are found, please contact the review staff. If you have any questions concerning our review or if we can be of further assistance, please email the following reviewers: charles.peveto@thc.texas.gov, danielle.julien@thc.texas.gov.

This response has been sent through the electronic THC review and compliance system (eTRAC). Submitting your project via eTRAC eliminates mailing delays and allows you to check the status of the review, receive an electronic response, and generate reports on your submissions. For more information, visit <u>http://thc.texas.gov/etrac-system</u>.

Sincerely,

Danielle Julien

for Bradford Patterson Chief Deputy State Historic Preservation Officer

Please do not respond to this email.

This email has been scanned for spam and viruses by Proofpoint Essentials. Click <u>here</u> to report this email as spam.

# **Tracy Watson**

From:Hailey FarmerSent:Tuesday, September 6, 2022 2:06 PMTo:durellcooper05@gmail.comCc:Tracy Watson; Ryan StarrSubject:Section 106- Invitation to Comment- Burkburnett Royal Garden (PE 202208134)Attachments:Burkburnett -Apache.pdf; Attachments.pdf

Chairman Cooper,

The Texas Department of Housing and Urban Development (TDHCA) is considering funding the below project. As part of the environmental assessment, consultation with all interested Tribal entities is encouraged.

#### • Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, TX 76354

Included in the attachments is a formal letter addressed to your attention, a site location map, and site sketch of the project area. If you would like to be a consulting party on this project, would you please let us know of your interest within 30 days? If you do not have an interest in consulting, or find no concerns with the project, please advise. Should you have a question, please contact me by phone or email.

If you would prefer to have a hard copy of the attached letter, please let me know. Thank you very much in advance for your consideration and assistance with this project. Have a wonderful day!

Best,

Hailey Farmer Phase Engineering, LLC. 5524 Cornish Street • Houston, Texas 77007 Office 832.485.2249 • 630.815.8115 Cell haileyf@phaseengineering.com





**TEXAS DEPARTMENT OF HOUSING AND COMMUNITY AFFAIRS** 

www.tdhca.state.tx.us

Greg Abbott GOVERNOR BOARD MEMBERS Leo Vasquez, Chair Brandon Batch, Member Anna Maria Farías, Member Kenny Marchant, Member Ajay Thomas, Member

September 6, 2022

Phone: 512-475-3033 environmental@tdhca.state.tx.us

Durell Cooper, Chairman Apache Tribe of Oklahoma PO Box 1330 Anadarko, OK 73005 durellcooper05@gmail.com

### RE: Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354 HOME funds through TDHCA #22220, Phase Engineering, LLC. Job No. 202208134

Dear Chairman Cooper:

The Texas Department of Housing and Community Affairs (TDHCA) is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the TDHCA has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

Phase Engineering, Inc., on behalf of TDHCA, will conduct a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. The TDHCA has authorized Phase Engineering, Inc. to contact your tribe on the Agency's behalf. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

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Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354

one 2 to 3-story garden-style residential building. Other site developments will include a business center/clubhouse, laundry facility, courtyard area with a pavilion and barbeque pit, fitness center, playground, and recreational areas. The development will also include 171 spots of flat surface parking and a detention pond. The property is currently vacant land bound to the north by Burkburnett Masonic Lodge, single-family residential property, and auto facilities; the east by undeveloped land; to the south by Overton Ray Elementary School; and to the west by single-family residential properties.

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If you do not wish to consult on this project, can you please inform us? If you do wish to consult, can you please include in your reply the name and contact information for the tribe's principal representative in the consultation?

Thank you very much. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,

Brenda Hull Program Services Manager

BH/TW

cc: SHPO

Attachments:

Site Location Map

# **Tracy Watson**

From:Hailey FarmerSent:Tuesday, September 6, 2022 2:06 PMTo:section106@mycaddonation.comCc:Tracy Watson; Ryan StarrSubject:Section 106- Invitation to Comment- Burkburnett Royal Garden (PE 202208134)Attachments:Burkburnett -Caddo.pdf; Attachments.pdf

Mr. Rohrer:

The Texas Department of Housing and Urban Development (TDHCA) is considering funding the below project. As part of the environmental assessment, consultation with all interested Tribal entities is encouraged.

#### • Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, TX 76354

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If you would prefer to have a hard copy of the attached letter, please let me know. Thank you very much in advance for your consideration and assistance with this project. Have a wonderful day!

Best,

Hailey Farmer Phase Engineering, LLC. 5524 Cornish Street • Houston, Texas 77007 Office 832.485.2249 • 630.815.8115 Cell haileyf@phaseengineering.com





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September 6, 2022

Phone: 512-475-3033 environmental@tdhca.state.tx.us

Jonathan Rohrer, THPO Caddo Nation of Oklahoma PO Box 487 Binger, OK 73009 Section106@mycaddonation.com

### RE: HOME funds through TDHCA #22220, New Construction of Multifamily Residential Development/Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354

Dear Mr. Rohrer,

The Texas Department of Housing and Community Affairs (TDHCA) is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the TDHCA has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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Sincerely,

Brenda Hull Program Services Manager

BH/TW

cc: SHPO

Attachments: Site Location Map

# **Tracy Watson**

From:	Hailey Farmer
Sent:	Tuesday, September 6, 2022 2:06 PM
То:	jennifer.rodriquez@comanchenation.com; martina.minthorn@comanchenation.com
Cc:	Tracy Watson; Ryan Starr
Subject:	Section 106- Invitation to Comment- Burkburnett Royal Garden (PE 202208134)
Attachments:	Burkburnett -Comanche.pdf; Attachments.pdf

Chairman Woommavovah:

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Hailey Farmer Phase Engineering, LLC. 5524 Cornish Street • Houston, Texas 77007 Office 832.485.2249 • 630.815.8115 Cell haileyf@phaseengineering.com





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September 6, 2022

*Phone: 512-475-3033 environmental@tdhca.state.tx.us* 

Mark Woommavovah, Chairman Comanche Nation of Oklahoma PO Box 908 Lawton, OK 73502 jennifer.rodriguez@comanchenation.com

### RE: Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354 HOME funds through TDHCA #22220, Phase Engineering, LLC. Job No. 202208134

Dear Chairman Woommavovah:

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Sincerely,

Brenda Hull Program Services Manager

BH/TW

cc: SHPO Martina Minthorn, THPO, martina.minthorn@comachenation.com

Attachments:

Site Location Map

# **Tracy Watson**

From:	Hailey Farmer
Sent:	Tuesday, September 6, 2022 2:06 PM
То:	Rmartin@tonkawatribe.com; Brown, Lauren
Cc:	Tracy Watson; Ryan Starr
Subject:	Section 106- Invitation to Comment- Burkburnett Royal Garden (PE 202208134)
Attachments:	Attachments.pdf; Burkburnett -Tonkawa.pdf

President Martin:

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September 6, 2022

Phone: 512-475-3033 environmental@tdhca.state.tx.us

Russell Martin, President Tonkawa Tribe of Indians of Oklahoma 1 Rush Buffalo Road Tonkawa, Oklahoma 74653 Rmartin@tonkawatribe.com

### RE: Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354 HOME funds through TDHCA #22220, Phase Engineering, LLC. Job No. 202208134

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Brenda Hull Program Services Manager

BH/TW

cc: SHPO Lauren Norman-Brown, THPO, <u>lbrown@tonkawatribe.com</u>

Attachments:

Site Location Map

# **Tracy Watson**

From:	Hailey Farmer
Sent:	Tuesday, September 6, 2022 2:06 PM
То:	Terri.Parton@wichitatribe.com; gary.mcadams@wichitatribe.com
Cc:	Tracy Watson; Ryan Starr
Subject:	Section 106- Invitation to Comment- Burkburnett Royal Garden (PE 202208134)
Attachments:	Attachments.pdf; Burkburnett -Wichita.pdf

**President Parton:** 

Mr. Rohrer:

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September 6, 2022

*Phone: 512-475-3033 environmental@tdhca.state.tx.us* 

Terri Parton, President Wichita and Affiliated Tribes (Wichita, Keechi, Waco, & Tawakonie) of Oklahoma PO Box 729 Anadarko, Oklahoma 73005 Terri.Parton@wichitatribe.com

#### RE: Burkburnett Royal Garden, 5 acres south of Williams Drive, Burkburnett, Wichita County, Texas 76354 HOME funds through TDHCA #22220, Phase Engineering, LLC. Job No. 202208134

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Brenda Hull Program Services Manager

BH/TW

cc: SHPO Gary McAdams, THPO, gary.mcadams@wichitatribe.com

Attachments:

Site Location Map







### Burkburnett Royal Gardens: Noise Calculation Data

				Projected 2%	6 Annual	Growth							10-Year
Road		Percent <sup>2</sup>	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
County Road	Gross Total ADT												
Over 1K Feet	Total Cars												
Truck Traffic <sup>1</sup> =	Total Medium Trucks												
	Total Heavy Trucks												
		% Night	Typical Speed Over	Within 1/4 N	/lile of At-	Bolted							
Railroad	Train ATO	Traffic	Crossing	Grade Cro	ossing?	Tracks?							
Wichita, Tillman & Jackson Railway Co. II	2	none	25	yes	6	yes							
Airport		Distance	Outoido Noia	o Countouro								<b></b>	
Airport		Distance		e Countours								1	

#### Noise Assement Locations (NAL)

Sheppard AFB

	NAL 1: Outdoor Ar	nenities	NAL 2: East	ern Façade
Noise Sources	Effective Distance (feet)	10-year DNL	Effective Distance (feet)	10-year DNL
Wichita, Tillman & Jackson				
Railway Co. II	1,180	48	1,170	48
County Road	1,115	NA	1,105	NA
NAL Combined DNL:		48		48

6.5 miles Yes

ADT = Average Daily Traffic Count DNL = Day/Night Noise Level <u>Criteria</u> Acceptable: 65 or less Normally Not Acceptable: 66-75 Not Acceptable: greater than 75

Site ID	Burkburnett Royal Gardens - NAL 1: Outdoor Amenities
Record Date	04/24/2024
User's Name	Phase Engineering - HH

Railroad #1 Track Identifier:	Wichita, Tllman & Jackson	Railway Co. II
Rail # 1		
Train Type	Electric 🗆	Diesel 🗹
Effective Distance		1180
Average Train Speed		25
Engines per Train		2
Railway cars per Train		50
Average Train Operations (ATO)		2
Night Fraction of ATO		0
Railway whistles or horns?	Yes: No:	Yes: 🗹 No: 🗆
Bolted Tracks?	Yes: No:	Yes: 🗹 No: 🗆
Train DNL	0	48
Calculate Rail #1 DNL	48	Reset

/ .uu .un 5001.cc

Airport Noise Level	
Loud Impulse Sounds?	⊖Yes ⊖No
Combined DNL for all Road and Rail sources	48
Combined DNL including Airport	N/A
Site DNL with Loud Impulse Sound	

# **Mitigation Options**

Calculate | Reset

If your site DNL is in Excess of 65 decibels, your options are:

- No Action Alternative: Cancel the project at this location
- Other Reasonable Alternatives: Choose an alternate site
- Mitigation
  - Contact your Field or Regional Environmental Officer (/programs/environmentalreview/hud-environmental-staff-contacts/)
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See *The Noise Guidebook* (/resource/313/hud-noise-guidebook/)
  - Construct noise barrier. See the Barrier Performance Module (/programs/environmental-review/bpm-calculator/)

# **Tools and Guidance**

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-levelassessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-

Site ID	Burkburnett Royal Gardens - NAL 2: Eastern Facade
Record Date	04/24/2024
User's Name	Phase Engineering - HH

Railroad #1 Track Identifier:	Wichita, Tllman & Jackson	Railway Co. ll
Rail # 1		
Train Type	Electric 🗌	Diesel 🗹
Effective Distance		1180
Average Train Speed		25
Engines per Train		2
Railway cars per Train		50
Average Train Operations (ATO)		2
Night Fraction of ATO		0
Railway whistles or horns?	Yes: No:	Yes: 🗹 No: 🗆
Bolted Tracks?	Yes: No:	Yes: 🗹 No: 🗆
Train DNL	0	48
Calculate Rail #1 DNL	48	Reset

/ .uu .un 5001.cc

Airport Noise Level	
Loud Impulse Sounds?	⊖Yes ⊖No
Combined DNL for all Road and Rail sources	48
Combined DNL including Airport	N/A
Site DNL with Loud Impulse Sound	

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Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-

## **U. S. DOT CROSSING INVENTORY FORM**

#### **DEPARTMENT OF TRANSPORTATION**

FEDERAL RAILROAD ADMINISTRATION

Instructions for the i Form. For private hig pedestrian station gr Parts I and II, and the I, and the Submissio updated data fields. N	nitial repo ghway-rail ade cross Submission Note: For J	orting of the f I grade crossin ings), complet on Information ation section. private crossin	ollowing type ngs, complete te the Headen n section. For For changes t gs only, Part	es of new or the Headen , Parts I and grade-separ co existing d I Item 20 and	previously ( r, Parts I and I II, and the ated highwa ata, comple I Part III Item	Inrepo d II, a Subm y-rail te the n 2.K. a	orted cro nd the S ission Inf or pathw Header, are requi	ssings: Fo ubmissior formation ay crossin Part 1 Ite red unless	or public hig Informatic section. Fo lgs (includin ems 1-3, an s otherwise	shway-rail grad on section. For r Private pathv g pedestrian st d the Submissi noted.	e crossings, con public pathway vay grade crossi ation crossings), on Information An asterisk *	nplete the or grade crossings, compl complete to section, in denotes ar	entire inventory ssings (including ete the Header, the Header, Part addition to the n optional field.
A. Revision Date	E	<b>B. Reporting A</b>	gency	C. Reas	on for Upda	te (Se	lect only	one)			□ Quiet	D. DOT	Crossing
10 / 14 / 2022		■ State	□ Transi	Data	ige in Cro Ipen	ossing Date	[	□ Closed	in Primary	Traffic $\Box$ Admin.	Zone Update	415484	4P
			D	artliloc	Chation and	ange (	Only (	Dperating	RR	Correction			
1. Primary Operating	Railroad		F		2. State		SSIIICa		ormatio	3. County			
WICHITA, TILLMA	N & JACI	KSON RAILV	VAY COMPA	NY, I	TEXAS	5 nhor				WICHITA	vne & No		
In ■ Near BURKB	JRNETT		<u>WILLIA</u> (Street/I	MS ST Road Name)	~ BIOCK INUI		_   * (Bloc	ck Numbe	r)	ST 0000	ype & NO.		
7. Do Other Railroad If Yes, Specify RR	s Operate	a Separate Tr	ack at Crossi	ng?□Yes	🗷 No	8. C II	<b>Do Other</b> f Yes, Spe	Railroads ecify RR	Operate O	ver Your Track	at Crossing?	Yes 🗷 N	0
9. Railroad Division o	or Region		10. Railroad	Subdivision	or District		11. Bra	nch or Lir	ne Name		<b>12. RR Milepo</b>	<b>st</b> 3.40	
None			None	red river	15 Dowont		Non 🗷 Non	e		16 Crossi	(prefix)   (nn	nn.nnn)	(suffix)
*		Station WICHIT	A FALLS	ible	IS. Parent	KK (1)	ι αρριιται	JIE)		IO. Crossi	ng Owner (ij upp	oncable)	
17. Crossing Type	18. Cros	sing Purpose	19. Crossin	ng Position	20. Publ	ic Acc	ess	21. Тур	e of Train			22. Avera	ge Passenger
Public	Highv 🖾 Highv	vay vav. Ped.	At Grad	e er	(if Privat □ Yes	e Cros	ssing)	Inter □	ht city Passene	er 🗌 Transi zer 🗌 Share	it Train Count Per Day ed Use Transit 🗌 Less Than One Per Da		
Private	□ Static	on, Ped.	RR Over		□ No			□ Com	muter	🗆 Touris	st/Other	□ Numbe	r Per Day 0
23. Type of Land Use	🗆 Farm	🗷 Resid	dential	Commerc	cial 🗆	Indus	trial	🗆 Inst	itutional	🗆 Recreati	onal 🗆 R	R Yard	
24. Is there an Adjace	ent Crossi	ing with a Sep	arate Numbe	r?	25. (	Quiet	Zone (F	RA provide	ed)				
🗆 Yes 🗷 No 🛛 If	Yes, Provi	de Crossing Nu	umber		🗷 N	0 🗆	] 24 Hr	Partial	🗆 Chica	go Excused	Date Establis	shed	
26. HSR Corridor ID		27. Latitu	ude in decima	I degrees		28.	Longitue	de in deci	mal degrees	5	29. L	at/Long Sou	urce
	X N/A	(WGS84	std: nn.nnnn	<sub>nnn)</sub> 34.08	76273	(W	GS84 std	: -nnn.nn	nnnnn) <sup>-98.</sup>	5718142	□ Ac	tual 🔳	Estimated
30.A. Railroad Use	*						31.A. 9	State Use	*				
30.B. Railroad Use	*						31.B. 9	State Use	*				
30.C. Railroad Use	*						31.C. 9	State Use	* State Ph	none# updated	d - date update	d: 2018-08	3-16
30.D. Railroad Use	*						31.D. 9	State Use	*				
32.A. Narrative (Rai	lroad Use,	) *					32.B. I	Narrative	(State Use)	*			
33. Emergency Notifi	cation Te	lephone No. ()	posted)	34. Railroa	ad Contact (	Telepi	hone No.) 35. State Contact (Telephone No.)						
866-777-3388				940-733-	1246					512-416-26	35		
				Р	art II: Rai	ilroa	d Info	rmatio	า				
1. Estimated Number	of Daily T	Train Moveme	nts Ital Night Thri	Trains 1	.C. Total Swi	tching	• Trains	1.D. T	otal Transit	Trains	1.E. Check if I	ess Than	
1.A. Total Day Inru Trains     1.B. Total Night Thru Trains     1.C. Total Switchin       (6 AM to 6 PM)     (6 PM to 6 AM)     0     2							0     1.1. Check in Less main       0     How many trains per week?						□ ek?
2. Year of Train Count	t Data <i>(YY</i>	YY)	3.	Speed of Tra	in at Crossin	g .		5				•	
2017			3.	H. IVIAXIMUM B. Typical Specification	eed Range O	peed ver Cr	(mpn) <u>2</u> rossing (n	<i>onph)</i> Froi	<u>20</u>				
4. Type and Count of	Tracks												
Main 1	Siding 0	Ya	rd _0	Transit _	0	Indu	ustry_0						
Constant Warr	ning Time	Motion I	Detection	AFO 🗆 PT	C X DC	□ o	ther 🗌	None					
6. Is Track Signaled?				7.	A. Event Red	corder	· _				7.B. Remote	e Health Mo	onitoring
FORM FRA F 61	80.71 (	Rev. 08/03	3/2016)		OM	Вар	proval	expires	11/30/2	2022			Page 1 OF 2

<b>A. Revision Date</b> (A	/M/DD/YYYY)					P	AGE 2			<b>D.</b> 415	Crossing Inve	ntory N	umber (7 d	char.,	)	
		Pa	rt III: H	ighway c	or Patl	hway	Traffic O	Control D	evice	Info	rmation					
1. Are there	2. Types of Pa	ssive Traffic	Control	Devices asso	ociated	with the	Crossing									
Signs or Signals?	2.A. Crossbuc	uuck 2.B. STOP Signs (R1-1) 2.C. YIELD Signs (R1-2) 2.D. Advance Warning Signs (Check all that a							l that ap	apply; include count) 🛛 🗷 None						
🛾 Yes 🗌 No	Assemblies (c 3	ount) (co 0	ount)		(cour	nt)		□ W10-1 □ W10-2			□ W10-3 □ W10-4	3 4	□v	V10-: V10-:	11 12	
2.E. Low Ground Cl (W10-5)	earance Sign	2.F. Paver	nent Mar	kings			2.G. Char Devices/	nelization Medians			2.H. EXEMP ( <i>R15-3</i> )	T Sign	2.I. EN Display	S Sig /ed	n <i>(I-13)</i>	
□ Yes <i>(count</i>	)	Stop Li	nes Symbols	□Dyna S □ Non	amic Env	velope	□ All Ap	proaches	□ Me	dian ne	□ Yes		□ Yes □ No			
2.J. Other MUTCD S	Signs	☐ Yes	X No				2.K. Priva	ate Crossing	2.L	. LED Er	hanced Signs	(List typ	es)			
Specify Type		Count					Signs (if µ	orivate)								
Specify Type Specify Type		Count					□ Yes 〔	🗆 No								
3. Types of Train A	ctivated Warnir	g Devices a	t the Gra	de Crossing	(specify	count o	f each dev	ice for all tha	t appl	y)						
3.A. Gate Arms	3.B. Gate Con	figuration		3.C. Cantil	evered	(or Bridg	, <i>ged)</i> Flashir	ng Light	3.D	). Mast	Mounted Flas	hing Ligh	ts	3.6	E. Total Count of	
(count)				Structures	(count)	0			(co	unt of n	nasts)_0		_	Fla	ashing Light Pairs	
Roadway 0	□ 2 Quad	E Full (Bar	rier)	Over Traff	ic Lane	0	⊔ In	candescent		Incande Back Lie	escent		D Jo Lights	_		
Pedestrian	□ 3 Quad □ 4 Quad	□ Median	Gates	Not Over	Traffic La	ane 0	🗆 LE	D		DACK LIE	ints included	Inclu	ded	0		
3.F. Installation Dat	e of Current		3.0	G. Wayside H	lorn					3.H. H	lighway Traffi	c Signals	Controllin	ng	3.I. Bells	
Active Warning Dev	vices: (MM/YYY	()	.   ¬	Yes Inst	alled on	(MM/Y	YYY)	/		Cross	ing				(count)	
/		Not Require		No	unea on	. (	)	_/			s L⊠INO				0	
3.J. Non-Train Activ □ Flagging/Flagma	e Warning n⊔Manually C	perated Sig	nals 🗆 V	Vatchman 🗆	Flood	ighting	🗆 None		3.K Coi	. Other unt _0	Flashing Light S	s or War pecify ty	ning Devi	ces		
4.A. Does nearby H	wy 4.B. Hwy	Traffic Signa	al 4.0	C. Hwy Traffi	c Signal	Preemp	tion	5. Highway 1	raffic	Pre-Sigr	nals	6. High	way Mon	torin	g Devices	
Intersection have	Intercon	nection						□ Yes □	No (Check all that apply)							
Traffic Signals?							Storage Dist	*				- Photo/V	ideo Droc	Recording		
🗆 Yes 🛛 No	□ For W	arning Signas		Advance	us			Stop Line Dist	tance	*			e venicie	e venicle Presence Detection		
				Ра	art IV:	Physi	cal Cha	racteristic	s							
1. Traffic Lanes Cros	ssing Railroad	One-way	Traffic	2	. Is Roa	dway/P	athway	3. Does T	rack R	un Dow	n a Street?	4. Is C	rossing Illu	umin	ated? (Street	
Number of Lanes	2	Divided	y Traffic Traffic	Р	'aved ? X X	'es [	□ No		] Yes	X	No	neares	vithin app t rail) 🗆 `	rox res	50 feet from	
5. Crossing Surface	(on Main Track	, <i>multiple ty</i> 3 Asphalt a	pes allow	ed) Install	ation Da	ate * <i>(M</i>	M/YYYY) _	/		Wi	dth * ar □ 7 Me	tal	Length	*		
□ 8 Unconsolidate	ed 🗌 9 Com	posite	10 Other	r (specify) _			concrete					-				
6. Intersecting Roa	dway within 50	) feet?					7. Smalle	st Crossing A	ngle			8. Is (	Commercia	al Po	wer Available? *	
🗷 Yes 🗆 No	If Yes, Approxin	nate Distanc	e (feet) _				□ 0° – 29	9° □ 30°	– 59°	X	60° - 90°		🖬 Ye	s	🗆 No	
				Part	: V: Pu	ublic H	lighway	Informat	ion							
1. Highway System			2. Fun	ctional Class	ification	of Road	l at Crossin	Ig	3. Sv	Is Cros	sing on State I	Highway	4.	High C	way Speed Limit MPH	
🗌 (01) Inters	tate Highway Sy	stem	□ (1)	Interstate	(0) 1101		(5) Major	Collector		Yes	🖬 No			Post	ed 🗌 Statutory	
🗌 (02) Other	Nat Hwy Syster	n (NHS)	□ (2)	Other Freew	vays and	Expres	sways		5.	Linear	Referencing S	ystem <i>(L</i>	RS Route I	D) *		
🔟 (03) Feder 🔟 (08) Non-F	al AID, Not NHS ederal Aid		□ (3) □ (4)	Minor Arter	pal Arte ial	erial 🗆	(6) Minor (7) Local	Collector	6.	LRS Mi	lepost *					
7. Annual Average Year 2019 AA	Daily Traffic <i>(A</i> DT 2273	ADT) 8. 3	Estimate	d Percent Tr	ucks %	9. Reg I Yes	gularly Use No	d by School B Average Nເ	uses? Imber	per Day	, 9	10	). Emerge Yes [	ncy S	Services Route	
Submi	ission Infor	mation -	This inf	ormation	is usea	l for ac	Iministra	tive purpo	ses a	nd is r	not availabl	e on th	e public	we	bsite.	
Submitted by				Organiza	tion						Phone			Date		
Public reporting bu	rden for this inf	ormation co	llection is	estimated t	o avera	ge 30 mi	nutes per i	response, inc	luding	the tim	e for reviewir	ng instruc	tions, sea	rchir	g existing data	
sources, gathering a agency may not cor displays a currently other aspect of this	and maintaining nduct or sponso valid OMB cont collection, inclu	the data ne r, and a pers rol number.	eded and on is not The valid	l completing required to, d OMB contr s burden to:	and rev nor sha ol numb Inform	viewing t III a pers ber for in ation Co	he collection on be subj Information	on of informa ect to a pena collection is ficer. Federal	ation. Ity for 2130- Railro	Accordi failure 0017. S	ing to the Pap to comply wit Send commen pinistration, 12	erwork F h, a colle ts regard 200 New	eduction ction of ir ing this bu lersey Av	Act c form urder e. SE	of 1995, a federal nation unless it n estimate or any MS-25	
Washington, DC 20	590.										,,					

## **U. S. DOT CROSSING INVENTORY FORM**

FORM FRA F 6180.71 (Rev. 08/03/2016)



File: VFsted02/TIGVETC/Sheppart/mxd4/CUZ\_Report\_2010/1999\_2010\_noise\_contour\_companion.mxd, 13-May-11 10:22, ricksc





1:8,000

## **US F&WS National Wetlands Inventory and Riparian Habitats**

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information to the public on the extent and status of the Nation's wetlands. These data delineate the areal extent of wetlands and surface waters as defined by Cowardin et al. (1979). Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation, some deepwater reef communities (coral or tuberficid worm reefs), and certain types of "farmed wetlands". Riparian areas are lands that occur along watercourses and water bodies. Typical examples include flood plains and streambanks. They are distinctly different from surrounding lands because of unique soil and vegetation characteristics that are strongly influenced by the presence of water. (Oct 2023)







# Nat'l Wild & Scenic Rivers System

The National Wild and Scenic Rivers System was created by Congress in 1968 (Public Law 90-542; 16 U.S.C. 1271 et seq.) to preserve certain rivers with outstanding natural, cultural, and recreational values in a freeflowing condition for the enjoyment of present and future generations. The Act is notable for safeguarding the special character of these rivers, while also recognizing the potential for their appropriate use and development. It encourages river management that crosses political boundaries and promotes public participation in developing goals for river protection.

Quarter Mile Buffer Around Subject Property
 Wild Scenic River Segment Classification
 Wild Scenic River Corridor
 Wild Scenic River Areas
 Wild Scenic River Status
 Final
 Provisional, Subject to Change



PE Project No: 202402008





## **NPS Nationwide Rivers Inventory**

The Nationwide Rivers Inventory (NRI) is a listing of more than 3,200 free-flowing river segments in the United States that are believed to possess one or more "outstandingly remarkable" natural or cultural values judged to be of more than local or regional significance. Under a 1979 Presidential Directive, and related Council on Environmental Quality procedures, all federal agencies must seek to avoid or mitigate actions that would adversely affect one or more NRI segments. The NRI is managed by the Rivers, Trails, & Conservation Assistance Program.



Nationwide Rivers Inventory

PE Project No: 202402008









## Burkburnett H S - School Boundaries Map (School Attendance Zone)

School-Age Children per 100 Households									
All Households	Single-Family Renter Households	Single-Family Owner Households	Multifamily Renter Households	Multifamily Owner Households					
38.6	56.7	41.9	20.8	11.1					
Source: NMHC tabulations of 2 members between the ages of	Source: NMHC tabulations of 2022 American Community Survey microdata, US Census Bureau. Updated 11/2023. Note: School-Age children are household nembers between the ages of 6-17								

## Re: [NOTICE] School District Ability to Serve Future Development, Burkburnett Royal Gardens (PE # 202402008)

Brad Owen <brad.owen@burkburnettisd.org>

Wed 4/24/2024 9:08 AM

To:Hope Hernandez <Hope@phaseengineering.com>

Hope,

Yes, I can confirm that there is sufficient capacity for the students in each of the schools.

Thank you,

Dr. Brad Owen Superintendent of Schools for BISD 940-569-3326



The content of this email is confidential and intended for the recipient specified in message only. It is strictly forbidden to share any part of this message with any third party, without a written consent of the sender. If you received this message by mistake, please reply to this message and follow with its deletion, so that we can ensure such a mistake does not occur in the future.

From: Hope Hernandez <Hope@phaseengineering.com>
Sent: Tuesday, April 23, 2024 3:55 PM
To: elaine.davis <elaine.davis@burkburnettisd.org>
Cc: Tracy Watson <Tracy@phaseengineering.com>
Subject: [NOTICE] School District Ability to Serve Future Development, Burkburnett Royal Gardens (PE # 202402008)

### THIS EMAIL ORIGINATED OUTSIDE OF THE BISD ORGANIZATION.

Our firm is preparing an environmental assessment for a proposed apartment complex to be located at 350 DW Taylor Pathway, Burkburnett, Texas. Since the complex is seeking funding from the U.S. Department of Housing and Urban Development, we must ensure there is sufficient capacity and access to the neighborhood public schools.

The new development will have 88 units and based on National Multifamily Housing Council, we estimate there we be approximately 18 school-aged children living at the complex. I've also attached a preliminary site plan and location map of the new development.

Can you please confirm there will be sufficient capacity for the students in the schools zoned for this property?

Overton Ray Elementary School Burkburnett Middle School Burkburnett High School

Please let me know if you need any additional information. I look forward to hearing from you.

Thank you!



Hope Hernandez-Huerta / Special Projects Manager Hope@phaseengineering.com / 915.245.5842 Cell

Phase Engineering 832.485.2227 Office 12414 Nacogdoches Road, Suite 150, San Antonio, TX 78217 phaseengineering.com

This email has been scanned for spam and viruses by Proofpoint Essentials. Click <u>here</u> to report this email as spam.





#### E. Drainage

The site has been located on the Flood Insurance Rate Map (FIRM) No. 48485C0180G effective date February 3, 2010 and is in the "X" flood zone. Detention will be required if determined through a drainage analysis the downstream may be adversely impacted by the subject development.

#### F. Utilities

- Existing 6-inch sanitary sewer line along north property line.
- An existing 6-inch water on the east side of County Road which is <u>+</u> 1,100 feet to the east
- City of Burkburnett provides both services.

Overhead electrical (both single and 3-phase) is available at the property. Natural gas is available near the site.

#### G. Fire Department Requirements

- The fire department requires (2012 IFC) the following per the Ordinance:
- Fire hydrants shall be located in such a manner that it is no farther than 500 feet from any lot within the subdivision 300 feet for commercial subdivision).
- Fire hydrants shall be located on a looped water main having a minimum diameter of six inches.
- Fire Lane Min Width 24' and 26' for 3 stories
- Min radius 30'
- A fire hydrant is required within 200 feet of a Fire Department Connection.

#### H. Proposed Offsite Improvements

A 6-inch water line will be extended approximately 1,100 LF to the existing line on the east side of County Road

#### I. Ingress & Egress

- The site will be accessed from D. W. Taylor Pathway
- D.W. Taylor Pathway is a 2-lane concrete curb and gutter street.
- The City will issue a driveway permit.



ame: F:\Land Development/2068/2068-207 2022 Tax Credit Sites\DATA\C/NL\07 - Burkturmett - Pioneer Crossing\C1.0 S\TE PLAN.dwg Plotted: 2/26/2022 2/07:30 PM Plot Device: None Page Setup: --- Plotted by: Thurman Parsor



— P—8"W



**QUALITY REPORT** (Consumer Confidence Report) **CITY OF BURKBURNETT** Phone Number 940-569-2263

The City of Burkburnett purchases supplemental water from the City of Wichita Falls, TX. The City of Wichita Falls obtains surface water from Lake Arrowhead. Lake Kemp via the Wichita River to lake, Lake Kickapoo, located in Wichita **County. Mark Southard, Purification** Superintendent, with the City of Wichita Falls can be reached at (940) 691-1153.



ECRWSS

\*\*\*\*\*\*\*\*ECRWSSEDDM\*\*\*\*

Postal Customer

**2022 DRINKING WATER OUALITY REPORT** (Consumer Confidence Report) **CITY OF BURKBURNETT** Phone Number 940-569-2263 PWS ID Number: TX2430005 **PWS Name: CITY OF BURKBURNETT** 

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

> For more information regarding this report contact: Name: Mike Whaley Phone: 940-569-2263

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (940) 569-2263.

## Annual Water Quality Report for the period of January 1 to December 31, 2022

The sources of drinking water (both tap water and bottled water) include rivers, lakes, s ponds, reservoirs, springs, and wells. As water travels over the surface of the land or thro ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, pick up substances resulting from the presence of animals or from human activity

Drinking water, including bottled water, may reasonably be expected to contain at least amounts of some contaminants. The presence of contaminants does not necessarily indic water poses a health risk. More information about contaminants and potential health effe be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include

- Microbial contaminants, such as viruses and bacteria, which may come from sewage tr plants, septic systems, agricultural livestock operations, and wildlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring from urban storm water runoff, industrial or domestic wastewater discharges, oil production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture storm water runoff, and residential uses.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, wh by-products of industrial processes and petroleum production, and can also come fi stations, urban storm water runoff, and septic systems.

- Radioactive contaminants, which can be naturally-occurring or be the result of oil production and mining activities.

The TCEQ completed an assessment of your source water, and results indica some of our sources are susceptible to certain contaminants. The sampling r ments for your water system is based on this susceptibility and previous sampl Any detections of these contaminants will be found in this Consumer Conf Report. For more information on source water assessments and protection eff our system contact Mike Whaley, (940) 569-2263.

Opportunities for public participation in decision making about the quality of the water will be held at the regularly scheduled Board of Commissioners meeting

#### Definitions: The following tables contain scientific te

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment requirements which a water system must follow.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential and determine (if possible) why total coliform bacteria have been found in our water system. Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system t

potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or coliform bacteria have been found in our water system on multiple occasions. Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in

water. MCLs are set as close to the MCLGs as feasible using the best available treatment techn Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water belo there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants



**CITY OF BURKBURNETT** Sources of drinking water are **Ground Water & Purchased Surface** Water

## **Sources of Drinking Water**

water

streams, ough the	In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems.
anu can	FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.
st small cate that ects can	Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.
eatment or result and gas	You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).
e, urban hich are om gas and gas	If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.
te that equire- e data. idence forts at he forts The	BOC meetings are held every third Monday of every month at 7 PM in the Council Chambers of Burkburnett City Hall. For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://www.tceq.texas.gov/gis/ swaview. Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww2.tceq.texas.gov/DWW/.
erms an	nd measures, some of which may require explanation.
or other samples. problems o identify why total	Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. MFL: million fibers per liter (a measure of asbestos) mrem: millirems per year (a measure of radiation absorbed by the body) na: not applicable. NTU: nephelometric turbidity units (a measure of turbidity) pCi/L: picocuries per liter (a measure of radioactivity)
drinking ology. ow which	ppb: micrograms per liter or parts per billion ppm: milligrams per liter or parts per million ppq: parts per quadrillion, or picograms per liter (pg/L) ppt: parts per trillion, or nanograms per liter (ng/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking

# **Information About Source Water Assessments**

Source Water Name	Type of Water	Report Status	Location	Source Water Name	Type of Water	Report Status	Location
BULLDOG #10	GW	Active	Seymour Aquifer	ELLIS #1	GW	Active	Seymour Aquifer
BULLDOG #11	GW	Active	Seymour Aquifer	ELLIS #2	GW	Active	Seymour Aquifer
BULLDOG #13	GW	Active	Seymour Aquifer	ELLIS #3	GW	Active	Seymour Aquifer
BULLDOG #14 - CR705	GW	Active	Seymour Aquifer	ELLIS #4	GW	Active	Seymour Aquifer
BULLDOG #16A - CR705	GW	Active	Seymour Aquifer	ELLIS #5	GW	Active	Seymour Aquifer
BULLDOG #17A	GW	Active	Seymour Aquifer	ELLIS #6	GW	Active	Seymour Aquifer
BULLDOG #18A	GW	Active	Seymour Aquifer	ELLIS #7	GW	Active	Seymour Aquifer
BULLDOG #21 - CR705	GW	Active	Seymour Aquifer	ELLIS #8	GW	Active	Seymour Aquifer
BULLDOG #22	GW	Active	Seymour Aquifer	ELLIS RODEO #2	GW	Active	Seymour Aquifer
BULLDOG #2A - CR705	GW	Active	Seymour Aquifer	ELLIS RODEO #3	GW	Active	Seymour Aquifer
BULLDOG #3 - CR705	GW	Active	Seymour Aquifer	FRIENDSHIP TRAIL	GW	Active	Seymour Aquifer
BULLDOG #3A	GW	Active	Seymour Aquifer	HURD H #1	GW	Active	Seymour Aquifer
BULLDOG #4A	GW	Active	Seymour Aquifer	HURD H #2	GW	Active	Seymour Aquifer
BULLDOG #5 - CR705	GW	Active	Seymour Aquifer	HURD H #3	GW	Active	Seymour Aquifer
BULLDOG #7	GW	Active	Seymour Aquifer	HURD H #4	GW	Active	Seymour Aquifer
BULLDOG #8 - CR705	GW	Active	Seymour Aquifer	HURD T #1	GW	Active	Seymour Aquifer
BULLDOG #9	GW	Active	Seymour Aquifer	HURD T #2	GW	Active	Seymour Aquifer
BURK #1	GW	Active	Seymour Aquifer	HURD T #3	GW	Active	Seymour Aquifer
BURK #2	GW	Active	Seymour Aquifer	HURD T #4	GW	Active	Seymour Aquifer
BURK #3	GW	Active	Seymour Aquifer	MARTON #1	GW	Active	Seymour Aquifer
BURK #4	GW	Active	Seymour Aquifer	MARTON #2	GW	Active	Seymour Aquifer
BURK #6	GW	Active	Seymour Aquifer	MARTON #3	GW	Active	Seymour Aquifer
BURK #7	GW	Active	Seymour Aquifer	MCCLURE #1	GW	Active	Seymour Aquifer
BURK #8	GW	Active	Seymour Aquifer	MCCLURE #2	GW	Active	Seymour Aquifer
BURK #9	GW	Active	Seymour Aquifer	MCCLURE #3	GW	Active	Seymour Aquifer
BURK #10	GW	Active	Seymour Aquifer	MCCLURE #4	GW	Active	Seymour Aquifer
CAFFEE #2	GW	Active	Seymour Aquifer	PRESCOTT #1	GW	Active	Seymour Aquifer
CAFFEE #3	GW	Active	Seymour Aquifer	PRESCOTT #2	GW	Active	Seymour Aquifer
CAFFEE #4	GW	Active	Seymour Aquifer	PRESCOTT #3	GW	Active	Seymour Aquifer
CAFFEE #5	GW	Active	Seymour Aquifer	PRESCOTT #5	GW	Active	Seymour Aquifer
CAFFEE #6	GW	Active	Seymour Aquifer	PRESCOTT #6	GW	Active	Seymour Aquifer
CARNES #4	GW	Active	Seymour Aquifer	PRESCOTT #7	GW	Active	Seymour Aquifer
CARNES #5	GW	Active	Seymour Aquifer	PRESCOTT #8	GW	Active	Seymour Aquifer
CARNES #6	GW	Active	Seymour Aquifer	PRESCOTT #9	GW	Inactive	Seymour Aquifer
CARNES #6A	GW	Active	Seymour Aquifer	PRESCOTT #10	GW	Active	Seymour Aquifer
CARNES ALLEY #1	GW	Active	Seymour Aquifer	SLAMA #1	GW	Active	Seymour Aquifer
CARNES ALLEY #2	GW	Active	Seymour Aquifer	SLAMA #2	GW	Active	Seymour Aquifer
COOPER #1	GW	Active	Seymour Aquifer	SLAMA GREEN #1	GW	Active	Seymour Aquifer
COOPER #2	GW	Active	Seymour Aquifer	SLAMA GREEN #2	GW	Active	Seymour Aquifer
COOPER #3	GW	Active	Seymour Aquifer	SLAMA GREEN #3	GW	Active	Seymour Aquifer
COOPER #4	GW	Active	Seymour Aquifer	SW FROM WICHITA FALLS CC FROM TX243	SW 0001 CITY OF	Active	Lake Kickapoo

## **2022 Regulated Contaminants Detected**

#### Lead and Copper Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.1733	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2022	0	15	4.9	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

#### **City of Burkburnett Regulated Contaminants**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Haloacetic Acids (HAA5)	2022	8	0 - 12.3	No goal for the total	60	ppb	Ν	By-product of drinking water disinfection.	
*The value in the Highest Level o	r Average Detected c	olumn is the highest a	verage of all HAA5 sam	ple results collected	at a location over a	i year			
Total Trihalomethanes (TTHM)       2022       33       4.44 - 45       No goal for the total       80       ppb       N       By-product of drinking water disinfection.									
*The value in the Highest Level o	r Average Detected c	olumn is the highest a	verage of all TTHM sam	ple results collected	at a location over a	a year			

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2022	0.33	0.33 - 0.33	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	06/02/2020	0.395	0.395 - 0.395	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022	28	2.57 - 28.4	10	10	ppm	Y	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2022	42.2	42.2 - 42.2	0	50	pCi/L*	N	Erosion of natural deposits.

Disinfectant Residual
Chlorine
Violations
Nitrate [measured
Infants below the age of
Violation Type
MCL, SINGLE SAMPLE
MCL, SINGLE SAMPLE

# Water Quality Test Results

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine	2022	2.69		4	4	mg/l	Ν	Water additive used to control microbes.

d as Nitrogen]

Violation Type	Violation Begin	Violation End	١
MCL, SINGLE SAMPLE	04/01/2022	06/30/2022	1
MCL, SINGLE SAMPLE	07/01/2022	09/01/2022	1

#### **Regulated Contaminants**

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2022	0.68	0 - 0.68	0	1	ppm		By-product of drinking water disinfection.
Haloacetic Acids (HAA5)*	2022	16	8.4 - 17.2	0	60	ppb		By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	26	9.08 - 32.4	0	80	ppb		By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination

Barium	2022	0.043	0.033 - 0.043	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.705	0.702 - 0.705	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022	0.13	0.09 - 0.13	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	2022	0.14	<0.0008 - 0.14	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2021	9.5	9.5	0	50	pCi/L*	N	Decay of natural and man-made deposits.
*EPA considers 50 pCi/L to be	the level of concern	n for beta particles.						
Combined Radium 226/228	2011	1	1 - 1	0	5	pCi/L*	N	Erosion of natural deposits.

Barium	2022	0.043	0.033 - 0.043	2	2	ppm	Ν	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.705	0.702 - 0.705	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022	0.13	0.09 - 0.13	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	2022	0.14	<0.0008 - 0.14	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2021	9.5	9.5	0	50	pCi/L*	N	Decay of natural and man-made deposits.
*EPA considers 50 pCi/L to be the level of concern for beta particles.								
Combined Radium 226/228	2011	1	1 - 1	0	5	pCi/L*	N	Erosion of natural deposits.

Total Organic Carbon The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

\*EPA considers 50 pCi/L to be the level of concern for beta particles.

#### **Disinfectant Residual**

d become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

Violation Explanation

A water sample showed that the amount of this contaminant in our drinking water was above its standard (called a maximu contaminant level and abbreviated MCL) for the period indicated. A water sample showed that the amount of this contaminant in our drinking water was above its standard (called a maximu contaminant level and abbreviated MCL) for the period indicated.

#### **City of Wichita Falls**







101 East College Street Burkburnett, Texas 76354 Phone: (940) 569-2231 Fax: (940)-569-1102 https://www.burkburnett.org/police-department



May 1, 2024

Hope Hernandez-Huerta 12414 Nacogdoches Road Suite 150 San Antonio, Texas 78217

The Burkburnett Police Department received a request for information on April 24, 2024, requesting the following information:

- 1. Does your department have sufficient capacity to adequately service this new development without increasing staff? Yes.
- 2. What would be the estimated response time to the project location? In 2023 the Burkburnett Police Department's average response time was 00:05:48.
- 3. Are you aware of any existing conditions which would restrict emergency response access to the project location? No.
- 4. The Burkburnett Police Department does not have any further information to provide.

05/01/2024

Shane Culp, Captain

## RE: Fire Dept Inquiry: Ability to Serve Future Development, Burkburnett Royal Gardens (PE 202402008)

### Dan King <dking@burkburnett.org>

Thu 4/25/2024 12:47 PM

To:Hope Hernandez <Hope@phaseengineering.com> Cc:Melinda Dyer <mdyer@burkburnett.org>

Good afternoon, below are my responses and I've cc'd our planning and zoning director to keep them in the loop.

1. Yes

2. 2-3 min

3. Yes

4. No

5. Nothing to add



From: Hope Hernandez <Hope@phaseengineering.com>
Sent: Wednesday, April 24, 2024 8:24 AM
To: Dan King <dking@burkburnett.org>
Cc: Ryan Starr <Ryan@phaseengineering.com>
Subject: Fire Dept Inquiry: Ability to Serve Future Development, Burkburnett Royal Gardens (PE 202402008)

We are requesting information on behalf of the U.S. Department of Housing and Urban Development (HUD) in connection with an environmental review for the proposed Royal Gardens multifamily development. The project will be located be located at 350 DW Taylor

Pathway, Burkburnett, Texas. The project involves new construction of an 88-unit multifamily housing development. A location map is attached.

Please provide the following information:

- 1. Does your department have sufficient capacity to adequately service this new development without increasing staff?
- 2. What would be the estimated response time for fire and medical emergencies to the project location?
- 3. Are you aware if existing firefighting protection services will be adequate and equipped to service this project?
- 4. Are you aware of any existing conditions which would restrict emergency response access to the project location?
- 5. Any other information that may be helpful related to public safety for this proposed development.

Thank you for your assistance. If there are any questions, please contact me.



Hope Hernandez-Huerta / Special Projects Manager Hope@phaseengineering.com / 915.245.5842 Cell

Phase Engineering 832.485.2227 Office 12414 Nacogdoches Road, Suite 150, San Antonio, TX 78217 phaseengineering.com

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MAYOR Carl Law

MAYOR PRO-TEM Marguerite Love

COMMISSIONERS John Beard Randy Brewster Cory Brinkley Bill Lindenborn Michael R. Tugman



February 7, 2022

Burkburnett Royal Gardens

812 San Antonio Suite L-14 Austin, TX 78701

Mr. Beard,

Concerning the property located at approx. 305 D.W. Taylor Pathway, Burkburnett, TX 76354 (legal description APPROXIMATELY 5 ACRES OUT OF 16.62 AC ABST 3 S ANDERSON), this property is currently zoned MF (Multi-Family). The MF, Multi-Family Residential, district is an attached residential district intended to provide a residential density of twenty-one (21) dwelling units per acre. The principal permitted land uses will include low- and mid-rise multiple-family dwellings and garden apartments.

Regards,

allifulp

Sarah Culp Director of Community Planning


USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



# Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
МоВ	Tipton loam, 1 to 3 percent slopes	Well drained	4.7	98.7%
ТоА	Tipton loam, 0 to 1 percent slopes	Well drained	0.1	1.3%
Totals for Area of Interest			4.8	100.0%

#### Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

### **Rating Options**

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



USDA

# **Reinforced Concrete Slab (TX)**

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
МоВ	Tipton loam, 1 to 3 percent slopes	Somewhat limited	Tipton (80%)	High shrink-swell (0.14)	4.7	98.7%
ТоА	Tipton loam, 0 to 1 percent slopes	Somewhat limited	Tipton (80%)	High shrink-swell (0.14)	0.1	1.3%
Totals for Area of Interest					4.8	100.0%

Rating	Acres in AOI	Percent of AOI	
Somewhat limited	4.8	100.0%	
Totals for Area of Interest	4.8	100.0%	



### Description

Reinforced concrete slabs are 4 to 8 inches thick and built on undisturbed soil graded to a depth of 1 to 2 feet.

Ratings for reinforced concrete slabs are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the loadsupporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as the one shown for the map unit. The percent composition of each component in a particular map unit is given to help the user better understand the extent to which the rating applies to the map unit.

Other components with different ratings may occur in each map unit. The ratings for all components, regardless the aggregated rating of the map unit, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

## **Rating Options**

Aggregation Method: Dominant Condition

JSDA

