

# Viability Evaluation for 710 Coyote Creek Rd, Kneeland, CA (Retreat Center Potential)

## Insight Brief

**Property Overview:** 710 Coyote Creek Rd is a 169-acre off-grid property in Kneeland, Humboldt County, featuring a 2-story barn-style residence (5 bed/2 bath, ~1,600 sqft) built in 2012 [1](#) [2](#). The parcel spans rolling meadows, mixed timber, and a spring-fed pond, with panoramic mountain views and considerable privacy [3](#) [4](#). Currently zoned **Agriculture Exclusive (AE)** and **Timber Production Zone (TPZ)** [5](#), the land enjoys very low property taxes (TPZ designation; 2024 taxes were only \$172) [6](#) [7](#). The location is remote – about a 40-50 minute winding drive from Eureka/Arcata – accessed via a gravel/dirt road with gated entries on Butte Creek Rd [8](#) [9](#). The home operates off-grid, with a private **well** (10 GPM), **septic system, propane**, and a small solar + generator setup [10](#) [11](#). A large detached shop and greenhouse frames are also on-site, remnants of a now-discontinued permitted cannabis cultivation operation [11](#).

**Retreat Use Potential:** The property's blend of natural beauty and seclusion offers strong potential as a 7-guest spiritual retreat center. Expansive meadows and the tranquil pond provide attractive settings for meditation, nature walks, or small group workshops. The night sky is exceptionally dark (far from city lights) – excellent for stargazing and astronomy. Ambient noise is minimal (no highways or urban activity nearby), ensuring a quiet soundscape ideal for contemplation. The panoramic vistas of forested hills enhance the sense of retreat and inspiration [12](#) [13](#). On clear days, guests would enjoy serene sunrises and sunsets unobstructed by development. These qualities suggest a high **experiential value** for retreat-goers.

**Key Challenges:** There are, however, notable hurdles to establishing a retreat here. **Zoning/Permits:** Neither the AE nor TPZ zone explicitly allows a “retreat center” by right. A *Conditional Use Permit (CUP)* or special dispensation would likely be required to operate any organized guest facility. Fortunately, Humboldt County code does list low-impact, resource-based visitor uses (e.g. “**incidental camping**”, private camps) as conditionally allowed in TPZ/AE zones [14](#). Small retreats could be framed as an accessory agri-tourism or educational use, which similar rural parcels have attained via CUP. Still, securing a permit may impose limits (e.g. **guest count caps**, quiet hours, parking plans) to address rural compatibility. **Infrastructure:** Off-grid utilities must be robust for hospitality – currently, power is limited (only ~2.5 kW solar with generator backup [15](#)), so a significant solar+battery upgrade is needed for year-round operations. High-speed internet and cell coverage are poor; Starlink or similar satellite internet (~100 Mbps) will be needed to provide connectivity for bookings and emergency communications. **Access:** The last several miles are unpaved and seasonally muddy; this could deter less adventurous guests and complicate winter access. Improvements like graveling, grading, and clear signage on the easement road (and maintaining the gated entries) will be necessary for guest safety and comfort.

**Physical Condition:** The main structure is in “**fair**” condition per the MLS, indicating some deferred maintenance or incomplete work [16](#). Indeed, interior photos show unfinished drywall and subfloors in areas. The downstairs, currently an open workshop with partitioned rooms, would need finishing to add usable guest spaces or amenities. Key systems (roof, foundation, plumbing, etc.) appear fundamentally

sound – the roof is composition shingle ~13 years old <sup>16</sup>, and the structure is wood-framed on post-and-pier footings <sup>17</sup> – but a professional inspection is warranted. Being off-grid, the property's **well and septic** are lifelines: water yield (10 gallons/min) is adequate <sup>11</sup>, and septic capacity (designed for a 5-bedroom home) should accommodate ~8–10 occupants if functioning properly. However, any increase in bedrooms or sustained higher occupancy may require expanding the septic leach field per County health codes (the Humboldt onsite wastewater standards size tanks at 3× *daily flow* and require ample leach field for peak loads <sup>18</sup> <sup>19</sup>). Overall, some investment in repairs and upgrades (see Defect List in Appendix A) will be needed to meet hospitality standards.

**Environmental and Legal Considerations:** The property carries **moderate environmental risk**. Wildfire hazard is rated "**Severe**" (7/10) by modeling data <sup>20</sup>; the land is a mix of grassland and timber in a State Responsibility Area, likely classified *High Fire Hazard Severity*. Fire insurance will be costly and harder to obtain (see Insurance section). Mitigation (defensible space, fire-safe building improvements) is crucial. Flood risk is moderate (6/10) <sup>21</sup> – the pond and creeks could overflow in extreme rains, though structures sit on higher ground. Seismic risk is real (Humboldt is quake-prone), but the wood-frame construction on flexible piers may perform relatively well if properly braced. On the *title/permit* front, a notable factor is the **previous cannabis CUP (2016-2022)** on this parcel <sup>11</sup>. While that operation is presumably ceased (the listing makes no mention of active cultivation), the CUP's conditions led to environmental remediation work: specifically, upgrading two failing stream culverts and addressing an **unpermitted on-stream reservoir (pond) dam** <sup>22</sup> <sup>23</sup>. The owner (under the name "Patel") entered a Lake/Streambed Alteration agreement in 2019 to stabilize the pond's overspill and remove debris <sup>24</sup> <sup>25</sup>. This work, overseen by CA Dept. of Fish & Wildlife, must be completed to avoid downstream impacts. A prospective retreat owner should verify that these improvements (new culverts, engineered spillway or dam removal plan) are done or budget for them, as they represent potentially **significant costs** and regulatory obligations inherited with the land. Aside from that, title appears straightforward (parcel is a single 169-acre lot, APN 314-224-003, with access via deeded road easements). No other liens or encumbrances were noted in available records; however, **due diligence** should include a title report focusing on easements (for the shared road and any timber rights) and ensuring the 2012 house has a finalized building permit.

**Financial Outlook:** With a purchase asking price of \$449k (about \$281/sqft for the house, or ~\$2,655/acre) <sup>26</sup> <sup>27</sup>, the property is relatively affordable for the acreage, though some discount is warranted for its remote location and needed upgrades. Comparable sales in the Kneeland region show a wide value range: e.g. a rustic 160-acre off-grid property (with two fixer homes) sold for \$226k in 2024 <sup>28</sup>, whereas a more accessible 22-acre parcel with a luxury home fetched \$910k <sup>29</sup>. This subject property likely falls in between – our valuation analysis (V1) pegs current fair market value around **\$420k**, with a 90% confidence interval of **\$380k-\$460k** (see Fair-Value Range). At ~40% occupancy, a small retreat operation could gross on the order of \$80–\$100k/year; after expenses, a **net operating income** around \$40–\$50k/year is plausible (roughly a 10% unlevered return on the real estate). This suggests a modest but positive **cash-on-cash return** if the owner actively manages the retreats. With prudent management, the 5-year IRR could reach low double-digits, assuming property value appreciation (~3%/yr) and gradually improving occupancy as the center gains reputation (see Financial Viability). However, these returns come with considerable *sweat equity* and risk, given uncertainties in permitting, insurance, and maintenance in a rugged environment.

**Conclusion: Overall, 710 Coyote Creek Rd offers a viable canvas for a boutique spiritual retreat** – it has the natural attributes to provide a profound guest experience (scenery, solitude, serenity), and it's priced accessibly. Success will depend on proactive investment in infrastructure (power, road, interior finishes) and navigating Humboldt County's regulatory channels for a use permit. Fire safety and environmental

compliance will need to be front-and-center in the business plan. If those challenges are met, the property could blossom into a unique off-grid sanctuary, with supplemental income streams (glamping sites, guided workshops, sustainable forestry) enhancing its viability. In summary, the opportunity is real but calls for a **patient, resilient owner** ready to engage with both the land's potential and its demands. The following sections detail each domain of evaluation, from legal and physical due diligence to financial projections, to guide a well-informed decision.

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## Domain Scorecard (Summary of Key Domains, 0-100)

Domain	Score	Highlights and Issues
L1. Title & Legal	75	Title appears clean (single 169-ac parcel). Access easements in place via Butte Creek Rd (gated) – verify recorded rights. Previous cannabis permit exists; ensure all associated obligations (e.g. environmental mitigation) are satisfied or transferrable <sup>22</sup> <sup>23</sup> . No known liens. TPZ status confers low taxes but binds land to timber use (a plus if maintaining forest, but removal from TPZ would incur penalties). Overall manageable legal profile, but <b>confirm dam/stream permits</b> and any deed restrictions.
R1. Zoning & Compliance	60	Zoned AE (Agriculture Exclusive) and TPZ – neither directly permits a commercial retreat by right. Would require a Conditional Use Permit or similar entitlement. Small-scale retreats could qualify under “incidental camping” or private camp uses allowed in resource zones <sup>14</sup> , but the permit process will be time-consuming. Likely constraints: max 7-10 guests, on-site manager required, quiet hours at night, and adequate septic/water for guests per Health Dept. The property can support these with minor adjustments (e.g. septic was built for 5 bedrooms). <b>Septic regulations</b> mandate capacity for peak loads; an engineer should evaluate the current system’s leach field for ~8+ occupants (it’s likely sufficient, but verification is prudent). No curfew laws per se, but the CUP may enforce no amplified sound after 10 pm, etc., to protect any distant neighbors. Zoning allows a second dwelling (AE zone usually allows 2 farm dwellings) <sup>30</sup> <sup>31</sup> , which could be useful for owner housing separate from guest facilities. Overall compliance is feasible but will require upfront paperwork and possibly a public hearing.

Domain	Score	Highlights and Issues
P1. Physical Condition	65	<p>Main house structure is relatively new (2012) with solid basics (wood frame, hardy siding, shingle roof) <a href="#">17</a> <a href="#">32</a>. Foundation is post-and-pier – no obvious issues, but seismic bracing should be checked (bring to code with tie-downs if needed). Roof has ~10+ years life left assuming installed well. No active leaks noted, but gutters and downspouts should be inspected/added to manage heavy rain. Interior condition is partially <b>unfinished</b> – some walls are untextured, floors are bare or subfloor in places. This lowers initial appeal but is a straightforward cosmetic fix (~\$20–40k to finish drywall, flooring, trim throughout). Plumbing and electrical: functional, but off-grid power limits usage (wiring should be checked for generator load handling). The wood stove provides heat <a href="#">33</a> <a href="#">34</a>; ensure chimney is clean and consider adding propane heaters for backup. The private well (depth/age unknown) yields 10 GPM <a href="#">11</a> which is excellent; test water quality (minerals, bacteria) and install filtration if needed for guest use. Septic: functioning for current use; no evidence of failure, but records of permit and last pump service should be reviewed. Outbuildings: a large shop (condition not fully known from photos) likely needs minor repairs or organizing – could be converted for retreat use (studio or yoga space) if structurally sound. Access road: 4.5-mile gravel track with steep sections (per agent's directions) – currently passable but rough; will need seasonal maintenance (grading, gravel) and clear signage for visitors. <b>Conclusion:</b> The property is in decent shape with no glaring structural defects, but moderate investment is needed to finish and polish the facilities to retreat-quality.</p>
IMG1. Issues from Photos	70	<p><b>Exterior &amp; Site:</b> The photos show a utilitarian exterior; siding and deck/stair wood appear weathered. Refinishing or painting (~\$5k) is recommended to seal and improve appearance. Greenhouse frames and debris from past activities litter the meadow – removal/cleanup (a few thousand dollars) will restore the natural beauty. The pond's earthen dam lacks an engineered spillway, an issue under state scrutiny (see E1); addressing this is critical (cost could range \$20k–\$50k depending on whether a new spillway or dam removal is chosen <a href="#">24</a> <a href="#">25</a>). <b>Interior:</b> Unfinished drywall and flooring are evident; also, some areas look to be used as workshop/storage rather than living space. This suggests the need for finish carpentry, paint, and possibly installing additional fixtures (e.g. more lighting, bathroom upgrades) to meet guest expectations. No obvious mold or water damage was seen in photos – a good sign given Humboldt's humidity, but a thorough inspection for any hidden leaks or rot is advised (especially around windows and the bathroom areas). <b>Mechanical:</b> The solar power setup isn't shown, but presumably is small-scale; upgrading that is covered in O1. <b>Summary:</b> Photo-identified issues are mostly aesthetic or minor—addressing them will significantly enhance appeal and functionality. (See Appendix A for detailed defect list with images and repair estimates.)</p>

Domain	Score	Highlights and Issues
I1. Infrastructure	55	<p><b>Off-Grid Power:</b> Current solar array (~2.5 kW) and batteries (~23 kWh) <sup>15</sup> were sized for minimal loads; to run a retreat (lights, appliances, electronics for 7 guests), a much larger system (~8 kW PV, 40+ kWh storage) is needed (see O1 for sizing). Backup generator is onsite (likely ~12 kW diesel) <sup>35</sup> – ensure it's reliable and consider a second backup or auto-start feature for seamless power. <b>Water:</b> The well provides ample flow and is likely drawing from a high-recharge watershed (56 inches annual rainfall) <sup>36</sup>. Water quality testing is recommended; treatment (UV or chlorine) may be needed for a public-serving water system. A storage tank system (the cannabis permit mentioned 41,000 gal storage on site <sup>37</sup>) might already exist – beneficial for fire suppression and peak demand.</p> <p><b>Septic:</b> One private septic system serves the house; no info on size, but as a 5-bedroom system it might be ~1,500-gal tank, 300 linear feet of leach lines (est.). With retreats (7 guests + owner), daily flows should remain within capacity, though the system will be taxed more continuously. Plan for more frequent pump-outs (every 2-3 years, ~\$500) and possibly add a graywater system for non-sewage waste to reduce load. <b>Internet/Comms:</b> Cell signal in Kneeland is spotty (Verizon might have some coverage on ridges; AT&amp;T very limited). There is a satellite TV dish, but modern retreats will require internet. <b>Broadband Options:</b> No cable/DSL. Best bet is <b>Starlink</b>, which can deliver ~100 Mbps down in this region; initial cost ~\$599 and \$120/mo subscription. Alternatively, a local Fixed Wireless ISP could be explored if line-of-sight to their tower exists. For phone, a landline might not be present; VOIP over satellite or a cell booster system (cost ~\$1k) may be needed for reliable voice calls. <b>Road Access:</b> Coyote Creek/ Butte Creek Rd is a private logging road – it is <b>prone to winter damage</b> (e.g. washouts, fallen trees). The 2019 stream improvements indicate previous road issues in storms. A 4WD vehicle is advisable in winter. Ensuring year-round access may involve contracting local grading services each spring. Also, the retreat should have an emergency evacuation plan for wildfire or medical needs, given the one-road access. In summary, infrastructure is <b>self-sufficient but requires upgrades</b> and diligent upkeep to support a hospitality operation.</p>

Domain	Score	Highlights and Issues
E1. <b>Environmental Hazards</b>	45	<p><b>Wildfire:</b> High risk – the property is largely wildland and scored 7/10 “Severe” fire factor <sup>20</sup>. It falls in a CAL FIRE State Responsibility Area; likely a “High” Fire Hazard Severity Zone (FHSZ). Surrounding fuel (forest and grass) could allow a wildfire to sweep through, especially in late summer/fall. Mitigation needed: maintain defensible space ~100 ft around structures (clear brush, limb up trees <sup>38</sup> <sup>39</sup>), install metal roof vents and ember-resistant screens, and possibly a sprinkler system or dedicated fire pump from the pond. The Kneeland Volunteer Fire Department (~8 miles away) is first responder, but response times can be 30+ minutes. Fire insurance is very costly or unavailable from standard carriers – see Insurance Comparison. <b>Flood:</b> The pond and creek present localized flood hazards. Flood Factor is 6/10 (moderate) <sup>21</sup> – heavy rain could over-top the pond dam (hence CDFW’s required spillway fix). The building site itself is on elevated ground; it’s not in a FEMA 100-year floodplain. Post-fix, flood risk will mainly concern road culverts and bridge crossings on the access road – those must be kept clear to prevent wash-outs. <b>Seismic:</b> Kneeland is near the Little Salmon fault zone and within reach of Cascadia subduction quakes. Expect strong shaking in a major event. The house on piers should be anchored; consider adding shear bracing. Humboldt County has high seismic building standards; any new structures must meet seismic Zone 4 codes. <b>Geotechnical:</b> The property likely has steep sections – risk of small landslides or road slip-outs in very wet winters. Notably, the soil is “Franciscan melange,” prone to erosion. The owner’s 2019 project to upgrade stream crossings suggests prior erosion problems <sup>22</sup> <sup>40</sup>. Ongoing maintenance of drainage (culverts, ditches) will mitigate this.</p> <p><b>Overall:</b> Environmental risks are the <i>Achilles heel</i> of this location – wildfire being the top concern. These risks are manageable with preparation, but they impact insurance and require a conscientious owner to implement protective measures.</p>

Domain	Score	Highlights and Issues
V1. Market Value	70	<p><b>Fair Market Value Estimate:</b> ~\$420,000 (mid-2025). This is slightly below asking (\$449k) because of the required upgrades and remote location. Recent <b>comparable sales</b> support this range: e.g., <b>6810 Butler Valley Rd</b> (Korbel area, 160 acres off-grid with two rough cabins) sold for \$226k in Sep 2024 <sup>28</sup> (a fixer-upper outlier); <b>1505 Tim Mullen Rd</b> (Kneeland, 22 acres with a modern 3BR home) sold for \$910k in Aug 2024 <sup>29</sup>; and <b>1501 Tim Mullen Rd</b> (22 acres land only) sold for \$270k <sup>41</sup>. Given 710 Coyote Creek's intermediate attributes (large acreage but modest home, off-grid), a value in the low-\$400s is reasonable – equating to ~\$2,500/acre plus improvements value. The <b>Zestimate®</b> as of May 2025 was \$419,500 <sup>42</sup> <sup>43</sup>, consistent with our analysis. We expect a <b>90% confidence interval</b> of <b>\$380k – \$460k</b> for current market value under normal sale conditions.</p> <p><b>Marketability:</b> Niche – appeals to buyers seeking privacy, land, and off-grid living. DOM (days on market) could be longer than average (the listing has been active ~50 days <sup>44</sup>). If positioned as a potential retreat or ranch, it may attract entrepreneurial buyers. <b>Value Add Potential:</b> Strategic improvements (solar array, finished interiors, permits for a second cabin or yurt sites) could raise value by 10-20% by broadening its utility. Timber value: Being TPZ, the standing timber could have market value (selective harvest of mature trees) – this is not directly reflected in comps but adds to long-term value (or conservation value). <b>Overall</b>, the property is fairly priced for its size and features; buyers should budget extra funds for upgrades. As a retreat investment, the entry price is low relative to coastal or urban properties, improving the potential ROI.</p>

Domain	Score	Highlights and Issues
W1. Water Resources	85	<p>The <b>water outlook is strong</b>. The parcel sits in a high-rainfall upland (nearly 5 feet of rain annually)<sup>36</sup> feeding the Van Duzen River watershed. The existing <b>well</b> (registered with county permit No. 17/18-1659) yields ~10 gallons per minute<sup>11</sup> – more than sufficient for domestic and retreat needs (typical max demand ~1–2 gpm). Given the climate, the aquifer recharge is reliable; this area is not in a critically overdrafted groundwater basin. No documented well failures nearby. For sustainability, the owner should monitor water levels each summer; but even in drought years, the ample catchment area of 169 acres (plus adjacent timberlands) suggests the well will remain productive. The property also features a <b>spring-fed pond</b> (on-stream reservoir) which can serve as a secondary water source (with treatment) or irrigation supply. Note: the pond's use may be regulated due to its unpermitted status – future use might require a storage permit if to be used for domestic supply. <b>Groundwater quality:</b> Likely good, with soft water (typical of Franciscan geology) but possibly with some iron or tannins from organic soil – a lab test will confirm potability. Installing sediment filters or a UV purifier is advisable for guest confidence. <b>Groundwater sustainability:</b> With only a handful of people on-site, withdrawal is minimal (perhaps 1–2 acre-feet/year, well below what 169 acres of forest accumulates in rainfall). There is negligible risk of aquifer depletion here, unlike Central Valley areas – Humboldt's issue is more often excess water in winter (runoff and erosion) rather than scarcity. If anything, water storage and distribution (pipes, tanks) need more attention than the well supply itself. In summary, water is a <b>high-scoring asset</b> for this property – abundant and renewable.</p>

Domain	Score	Highlights and Issues
S1. Retreat Suitability	80	<p><b>Scenic &amp; Peaceful Setting (9/10):</b> The site offers stunning natural beauty – broad meadows, panoramic ridge views, a tranquil pond, and surrounding forests <sup>4</sup> <sub>45</sub>. The absence of development nearby means a <i>near-silence</i> broken only by wind in the trees and birdsong. This deep sense of seclusion is ideal for spiritual or wellness retreats. <b>Dark Sky (10/10):</b> Nighttime brings very low light pollution – stargazing opportunities are excellent, adding to the retreat experience. <b>Climate &amp; Comfort (7/10):</b> Kneeland's elevation (~2,500–3,000 ft) means warm summers (80°F days, cool nights) and wet winters (could see occasional snow dustings). Summer and fall are delightful for outdoor activities; winter retreats would be mostly indoors around the wood stove – cozy for some, though muddy grounds might limit outdoor programming. <b>Accessibility (5/10):</b> This is the one drawback – reaching the property requires a commitment to drive a long, winding road (and navigating a private gravel road with gates). For Bay Area or out-of-state visitors, travel includes a flight or 5-hour drive to Humboldt, plus another hour to the site. The remoteness is part of the charm but could limit attendance from casual weekend-goers. Mitigation: Offer clear directions, possibly shuttle service from Arcata/Eureka for group events, and ensure the road is well-maintained. <b>Existing Facilities (7/10):</b> The house can sleep 7, but common areas are limited. You'd likely convert part of the shop to a workshop/yoga hall or use outdoor spaces with canopies in summer. There's a small greenhouse and garden area for farm-to-table activities <sup>46</sup>. Additional amenities (hot tub, meditation deck overlooking the pond) could be added relatively easily given space and lack of neighbor constraints. <b>Overall Fit:</b> The property's attributes align nicely with a retreat mission – the land itself is inspiring. Operationally, retreats will thrive in spring through fall; winter off-season could be used for site improvements or hosting solitary writing/meditation sabbaticals for hardy individuals.</p>

Domain	Score	Highlights and Issues
F1. Financial Viability	65	<p>At a 40% occupancy rate, a well-run 7-person retreat can cover costs and yield profit, but margins may be modest initially. <b>Revenue model:</b> Assume an average of 3 retreats per month (multi-day events or equivalent individual bookings), with an average <b>rate of ~\$150 per guest-night</b> (meals and basic programming included). Over ~146 nights (40% of 365), that's ~\$153,000 gross revenue (<math>7 \times \\$150 \times 146</math>). In practice, one might run fewer, longer weekend retreats - e.g. 20 retreats per year <math>\times</math> 3 nights <math>\times</math> 7 guests <math>\times</math> \$225 average per night = \$94,500 - so our estimate range is broad (\$90k-\$150k gross). <b>Operating costs:</b> Food, supplies, utilities, insurance, marketing, and maintenance can consume ~50% of gross (common for hospitality). If \$100k gross, expect ~\$50k in expenses (including a part-time helper or cook for retreats, and property upkeep). That leaves <b>Net Operating Income <math>\approx \\$50k/yr</math></b>. If the owner lives on-site, their housing is effectively paid for as well. <b>Debt service:</b> If purchase and improvements total \$500k and one finances \$300k at ~7% over 30 yrs, annual debt payments <math>\approx \\$24k</math>. Subtracting that from NOI (\$50k) leaves ~\$26k cash profit. On an initial \$200k cash investment (down payment + upgrades), that's a <b>13% cash-on-cash return</b> - quite healthy. Even without financing (all-cash buy), a ~\$50k annual NOI is ~10% return on \$500k, well above typical rental yields. <b>Payback Period:</b> Roughly 8-10 years to recoup initial cash investment from net cash flows, assuming steady occupancy growth to 50% over a few years. <b>IRR (5-year):</b> Taking into account potential sale at year 5 (say property appreciates to ~\$485k), plus yearly cash flows, the IRR is in the ~12-15% range. This assumes the retreat business is up and running by Year 2 and that the owner's "sweat equity" in managing the retreat is not factored as a paid expense. <b>Risks to viability:</b> Lower-than-expected occupancy (marketing a new retreat is challenging), unexpected costs (fire insurance spikes, major repair), or difficulty maintaining permits could reduce returns. Also, any revenue from auxiliary sources (see B1) will improve the bottom line. In sum, the financial picture is cautiously optimistic - the retreat can pay its way and provide the owner a modest income <b>plus</b> the intangible benefits of living on a beautiful property.</p>

(Score legend: 0 = extremely poor/unviable, 100 = excellent/outstanding. Scores ~50 = average or moderate viability.)

## Fair-Value Range (90% Confidence Interval)

Based on recent comparable sales and property analysis, the **fair market value** of 710 Coyote Creek Rd is estimated at **\$420,000**, with a 90% confidence interval of **\$380,000 to \$460,000**. This range represents the likely sale price under current market conditions (arms-length transaction, typical exposure time). Factors influencing value include: huge acreage (169 ac) with TPZ timber value, off-grid status (usually a value decrement), the condition of improvements ("fair"/partially unfinished), and location remoteness (limits buyer pool).

To justify the range, we cite local comps within the past year:

- *Low-end exemplar: 6810 Butler Valley Rd* (Korbel/Kneeland area) – 160 acres, two unfinished cabins (total 2,037 sqft), off-grid – **sold for \$226,000** (Sept 2024) <sup>28</sup>. That property was more distressed (required major work) but shows raw land with improvements can sell sub-\$250k.
- *High-end exemplar: 1505 Tim Mullen Rd* (Kneeland) – 22 acres with a 2,559 sqft modern home & utilities – **sold for \$910,000** (Aug 2024) <sup>29</sup>. This illustrates top-tier value in Kneeland for turn-key homes on smaller acreage.
- *Mid-range: 1501 Tim Mullen Rd* – 22 acres of land (no house, but with well/power ready) – **sold for \$270,000** (Aug 2024) <sup>41</sup>. And a currently listed 169-acre ranch (subject property) at \$449k provides an anchor on the upper mid-range <sup>47</sup>.

Given 710 Coyote Crk includes a habitable (if simple) dwelling and extensive land, a value around **\$2,500-\$3,000 per acre** (including improvements) is reasonable. That yields ~\$422k-\$507k; adjusting downward for the unfinished state and access issues lands us in the low \$400s. Thus, **\$380k (lower bound)** represents a scenario of tougher sale conditions or needed repair credits, while **\$460k (upper bound)** would be achieved if a buyer highly values the land and potential (or if multiple offers push it above ask). This **90% CI** captures the most probable outcomes.

*(Note: A formal appraisal would be recommended for financing. Timber value or potential conservation easement value could slightly augment long-term value beyond the market estimate.)*

## Insurance Comparison Table

Insurance for this property is challenging due to wildfire risk and remote location. Below is a comparison of insurance options and their estimated costs and features:

Insurance Option	Coverage	Annual Premium (est.)	Pros / Cons
<b>Standard Homeowners Policy</b> <small>&lt;br/&gt;(if obtainable)</small>	Comprehensive HO-3 cover: dwelling ~\$450k, personal property, liability, <i>includes fire coverage</i>	~\$2,500 (if any insurer will write it)	<b>Pros:</b> Broad coverage, one policy, typically lower deductible. <b>Cons:</b> <b>Hard to obtain</b> in high-fire zone – major insurers (State Farm, Allstate, etc.) have stopped writing new rural policies in much of CA <sup>48</sup> <sup>49</sup> . May require proof of defensible space and still be subject to non-renewal.

Insurance Option	Coverage	Annual Premium (est.)	Pros / Cons
California FAIR Plan + Wrap	FAIR Plan: fire-only coverage on structure (up to set limit). >Separate "Difference in Conditions" policy: liability, theft, water damage, etc.	~\$4,500 – \$5,500 >(FAIR ~\$3,500 for fire + ~\$1k for companion policy)	<b>Pros:</b> Guaranteed acceptance for fire coverage as insurer of last resort. Can customize dwelling coverage amount. <b>Cons:</b> Expensive and rising (FAIR Plan facing \$1B losses from fires, passing costs to consumers via surcharges <sup>50</sup> ). Fire policy has high deductible and covers only wildfire and smoke – no coverage for theft, liability, etc. (hence need second policy). Overall less coverage for more cost.
Surplus Lines/ Specialty Insurer >(e.g. Lloyd's, Scottsdale)	Custom or high-risk policy from non-admitted carrier; can cover fire, liability, etc., often with higher deductibles and exclusions.	~\$6,000+ >(likely \$6k– 8k/yr for full coverage in this area)	<b>Pros:</b> One policy covering most perils, even in wildfire zone. Will insure unique risks (off-grid systems, etc.). <b>Cons:</b> Very high premium. Often <b>actual cash value</b> settlement (depreciated) rather than replacement cost. Regulated differently (less consumer protection). Typically requires inspection and may mandate certain mitigation upgrades.

**Insurance Outlook:** Unfortunately, **wildfire insurance rates are surging** statewide; nearly all Californians may see premium hikes or surcharges due to recent fire disasters <sup>51</sup> <sup>48</sup>. In Humboldt's wildlands, many owners end up on the FAIR Plan. For budgeting, an owner should assume ~\$4k–6k/year for insurance initially, potentially more over time. Also factor in a high wildfire deductible (often 1–3% of coverage, so ~\$5–15k out-of-pocket if a fire claim occurs). Business liability insurance (for operating a retreat) will be separate – likely a **commercial general liability policy** (~\$1,000/year) to cover guest injuries or lawsuits, since a standard homeowner's won't cover commercial use.

**Mitigation Credits:** It's worth pursuing any available discounts – some insurers (and the FAIR Plan in future) may offer credits for hardened homes (fire-resistant roofs, cleared defensible space) <sup>52</sup> <sup>53</sup>. Installing a metal roof or sprinkler system, for example, could marginally reduce premiums or at least improve insurability. Nonetheless, insurance will remain a **significant ongoing cost** in the financial model (roughly 5–10% of gross revenue). The comparison above highlights that a **traditional policy is ideal** if you can secure it, but one must be prepared to resort to the FAIR Plan combination.

## Retreat Suitability Factors (Site Strengths & Drawbacks)

Factor	Assessment	Score (0-10)
<b>Natural Beauty</b>	<b>Exceptional.</b> Expansive views of forested mountains and open meadows  . The pond and surrounding wildlife add to a peaceful, scenic atmosphere. Sunsets and stargazing are superb.	9/10
<b>Tranquility &amp; Privacy</b>	<b>Excellent.</b> Nearest neighbors are far; no public roads in earshot. The loudest regular sounds are likely wind, frogs, and the occasional hawk. Perfect for meditation and solitude. <i>No urban distractions.</i>	10/10
<b>Accessibility</b>	<b>Challenging.</b> Requires a ~45-min drive from civilization, including ~5 miles of dirt road with gates. Not reachable by low-clearance vehicles in winter. Guests must be committed to the journey (which can itself be part of the “away from it all” experience).	4/10
<b>Climate Comfort</b>	<b>Good (seasonal).</b> Summers are warm, dry, and ideal for outdoor practice (80°F daytime, cooler nights). Spring and fall are mild but wetter. Winters are wet, chilly (40s°F), and muddy; outdoor activities limited, but indoor coziness is possible. Some may find winter too rustic (wood-stove heating, etc.).	7/10
<b>Existing Amenities</b>	<b>Basic.</b> The house can sleep 7 but has limited communal space for group activities (living area is modest). Requires adaptation: e.g., convert shop to a group room, use outdoors for gatherings in good weather. No fancy amenities on-site currently (pool, spa, etc.), which is fine for a rustic retreat but may not suit all audiences.	6/10
<b>Dark Sky / Astronomical</b>	<b>Outstanding.</b> Virtually no light pollution; on clear nights the Milky Way is vivid. Great for night meditations or astronomy sessions. (Cloud cover in winter is frequent, however.)	9/10
<b>Local Attractions</b>	<b>Few (which is a plus for focus).</b> Not much in the immediate area to divert attention – this is the attraction: nature itself. For longer retreats, one can organize hikes on the property, or perhaps a half-day trip to the Eel River or coast (~1 hr+ away). There's a small community at Kneeland (population ~100) but no tourist spots.	7/10
<b>Overall Retreat Fit</b>	The location embodies a true “getaway” for spiritual renewal. Once on-site, the setting strongly facilitates introspection, group bonding, and immersion in nature. Minor inconveniences (drive, rustic facilities) actually filter in the <i>right</i> crowd – those sincere about unplugging. For many retreat-goers, that's ideal. For others expecting easy luxury, it's less suitable.	8/10

## Risk Factors Table (Hazards & Challenges)

Risk/Hazard	Level & Mitigation	Impact
Wildfire	<p><b>High.</b> Property in wildland interface with severe fire rating <sup>20</sup>. Major fires are a perennial threat late summer/fall. <i>Mitigations:</i> Create 100' defensible space, clear brush annually, install fire pump/hose from pond, use fire-resistant building materials (e.g. metal roof, Hardie siding) when upgrading. Develop an evacuation plan (the road out can be a bottleneck). Engage in community fire-safe council activities. These steps can reduce damage risk and aid insurance.</p>	High (life safety, property loss, business interruption)
Road Access Failure	<p><b>Moderate.</b> Heavy rains could wash out the access road or down trees could block it (history of failing culverts on property <sup>22</sup> <sup>23</sup>). A landslide could temporarily isolate the property. <i>Mitigations:</i> Maintain culverts and road drainage, keep chainsaw handy for fallen trees, and have a secondary evacuation route if possible (scout if any old logging roads connect out). Possibly store on-site supplies for a few days if road closes.</p>	Moderate (safety and operational hindrance)
Flooding	<p><b>Low-Moderate.</b> The house is elevated; unlikely to flood. The pond/creek could overflow in extreme storms, potentially damaging the lower meadow or road. <i>Mitigation:</i> Complete the spillway engineering for the pond per CDFW <sup>24</sup> so it safely passes big storms. Regularly clear debris from the creek channel and culverts.</p>	Low (property damage mostly to land/roads)
Seismic	<p><b>Moderate-High.</b> Strong earthquakes (M7+) are possible in Humboldt. The house on piers could be vulnerable if not reinforced – risk of structure shifting. <i>Mitigation:</i> Add seismic bracing to pier posts, secure water heater and heavy furniture, consider installing an earthquake shutoff valve on propane. Have emergency supplies (first aid, etc.) on site.</p>	Moderate (structure damage) but High in worst-case event
Power Outages (off-grid system issues)	<p><b>Moderate.</b> If solar system or generator fails (or prolonged cloudy weather exhausts batteries), you lose power. <i>Mitigation:</i> Design system with ample redundancy (see O1), maintain generator with extra fuel stored, and have manual alternatives (oil lamps, etc.) as backup. This risk is inherent off-grid but manageable with planning.</p>	Moderate (business downtime if not handled, discomfort for guests)

Risk/Hazard	Level & Mitigation	Impact
<b>Liability Risks</b> (guests & activities)	<p><b>Moderate.</b> Remote location means slower emergency response if a guest has an accident or medical issue.</p> <p><i>Mitigation:</i> Have at least one staffer certified in first aid/CPR. Keep a satellite phone or reliable comms for 911 if cell fails. Require guests to sign liability waivers acknowledging the wilderness environment. Ensure property hazards (old barbed wire fences, open well holes, etc.) are addressed/cleared. Carry appropriate liability insurance.</p>	Moderate (potential legal/financial exposure)
<b>Regulatory/Permitting</b>	<p><b>Moderate.</b> Risk that obtaining or keeping the permit for retreat use could be challenging if neighbors object or if inspections find code violations. <i>Mitigation:</i> Proactively work with County planners, comply with any permit conditions (e.g. limit noise, proper waste disposal). Keep the operation low-key and within allowed guest count to avoid complaints. This is more of a business risk than natural hazard, but worth noting.</p>	Moderate (could halt operations if not managed)

## Financial Viability Summary (5-Year Outlook)

**Initial Investment:** Purchase price ~\$420k (assumed) plus ~\$80k in immediate upgrades (solar power system, interior finishing, road work, furnishings) – total **\$500k** invested. This assumes owner acts as general contractor for improvements to save costs, and possibly funds via a combination of cash and loan.

**Operating Assumptions:** The retreat operates year-round with a **40% occupancy** (146 nights/yr of use). This could be via hosting ~2 to 3 retreats per month, averaging 5-7 guests each, or equivalent rental of the entire facility on Airbnb for ~15 weekends a year. An average **daily rate of \$120-\$180 per guest-night** is targeted (blending higher-priced guided retreat packages with some lower-priced simple stays). For projections, we'll use ~\$140/guest-night as a conservative mid-point, given the rustic nature (not a luxury resort). At full 7-person occupancy, that's **\$980 per night** when in use.

- **Annual Gross Revenue:** ~7 guests \* \$140 \* 146 nights = **\$143,000** (mid-case). If fewer guests attend some retreats, the realistic gross may be closer to \$100,000, especially in early years as marketing ramps up. We will carry \$120,000 as a reasonable Year 1-2 gross target, rising to \$150,000 by Year 5 as occupancy improves (e.g. reaching ~50%).
- **Operating Expenses:** Inclusive of property expenses and retreat program costs. Key components:
  - **Property Opex:** Insurance (~\$5k), property tax (~\$1.2k under TPZ), utilities (propane, generator fuel ~\$2k, satellite internet ~\$1.5k), maintenance (road grading, repairs ~\$3k), septic pumping & well service (\$500), and contingency (\$2k).  $\approx \$15k/year$ .
  - **Retreat Ops:** Food & kitchen (~\$15 per guest-day covers 3 meals: for 7 guests 146 days  $\approx \$15k$ ), part-time staff or facilitators (assume owner is primary host, but occasional helper hiring ~\$10k), marketing (website, ads \$3k), permits/licenses (\$1k), consumables/supplies (\$2k).  $\approx \$31k/year^*$ .

- **Total Expenses:** roughly **\$46k/year** (could range \$40k–\$50k). Notably, if the owner is doing most of the work, they might not “pay themselves” a salary out of this, effectively increasing net but at the cost of their labor. We treat the \$10k for staff as some paid help; the owner’s labor is the residual profit.
- **Net Operating Income (NOI):** Gross \$120k – Expenses \$46k = **\$74,000**. If gross ends up at \$100k (low case), NOI ~\$54k. If at \$150k (high case), NOI ~\$104k. So likely NOI band is \$50–\$100k, mid-point ~\$75k annually.
- **Debt Service:** If financed: e.g. \$300k loan at 7% over 30 years gives ~\$24,000 annual debt service. With NOI \$74k, **cash flow after debt ~\$50k/year**. If owner invested \$200k cash (down payment + upgrades not covered by loan), the **cash-on-cash return** =  $\$50k / \$200k = 25\%$  – quite high, thanks in part to the leverage and the owner’s unpaid labor component. Even under a lower scenario (NOI \$50k, after-debt ~\$26k), on \$200k cash that’s ~13% cash-on-cash. These figures indicate strong returns if targets are met. Without financing (all-cash purchase \$500k), the yield is NOI/Investment = ~\$74k/\$500k = **14.8% ROE** (effectively the unlevered return).
- **IRR (5-Year):** Considering a likely increase in retreat popularity and minor property appreciation, let’s model a sale at end of Year 5 at \$500k (just a modest 4% total increase over purchase after making improvements; the business value might add, but assume market value similar). During 5 years, if NOI grows from \$60k to \$90k linearly (midpoint \$75k avg) and we assume the owner draws these profits. The IRR on the initial \$200k cash invested would be around **15–18%**. (High because of the relatively low initial price and high operating yield – this isn’t guaranteed, but it’s plausible given the numbers). If instead the business struggles and stays at \$50k NOI and sells for purchase price, IRR would be ~0–5%. So the range is broad. Our mid-scenario IRR ~**15%** reflects successful execution.
- **Payback Period:** With ~\$50k–\$75k annual free cash flow, the owner’s initial \$200k could be earned back in roughly **3–4 years of operation** (not including loan principal payoff, just cash flow). On a total investment basis (\$500k including financed portion), payback is longer – about **7–8 years** of NOI to cover \$500k. This is still relatively quick, indicating the income potential relative to cost is high. The caveat: it requires the owner to actively run the retreat (this is not passive real estate).

**Financial Risks & Sensitivity:** The above assumes a steady stream of retreat bookings. In reality, occupancy might ramp up slowly: Year 1 might only see 20% occupancy until marketing and word-of-mouth spread. If only \$50k revenue occurs in Year 1, the owner may operate at a near break-even (or slight loss) that year. There is also risk of interruptions – a wildfire event could force closure for a season (no revenue, but expenses continue). We recommend maintaining a cash reserve of at least \$20k for such contingencies. Also, rising insurance costs (already ~\$5k, could go higher) and inflation in food or fuel would squeeze margins. On the flip side, there is upside if the owner adds value: e.g., hosting larger workshops occasionally or renting out for weddings could spike income some months (though large events would need separate permits and planning).

**Bottom Line:** The retreat center can be financially viable, with annual profits potentially in the tens of thousands and solid ROI. It won’t likely make one rich overnight, but it can pay for the property, provide a livelihood (and home) for the owner, and build equity. The key is keeping occupancy up and costs controlled, and being prepared for the variable nature of a hospitality business. Careful diversification into auxiliary revenue (next section) can further strengthen the financial picture and resilience of the venture.

## Auxiliary Income Strategies (Beyond Core Retreats)

In addition to the primary retreat business, the property's characteristics allow for several **ancillary income streams** that can supplement revenue. Below is a matrix of at least three viable strategies, with their setup costs, estimated net income, and an evaluation of fit with local zoning and climate.

Auxiliary Strategy	Setup Cost & Requirements	Est. Annual Net Income	Zoning/Climate Fit Score
<b>A. Vacation Rental (Whole-Home Airbnb)</b> >(Rent the house to private groups on off-retreat dates)	<p><b>Cost:</b> Minimal – primarily furnishing upgrades (\$5k for quality bedding, décor), professional photography (\$500), and county STR permit fee (\$800) if required.</p> <p>Marketing via Airbnb/VRBO (platform fees apply).  Ops: Cleaning protocol and maybe a local on-call manager (~20% of rental fee) for turnovers.</p>	<p><b>Income:</b> If rented 50 nights/year at ~\$300/night (entire 5BR house), gross \$15k; after cleaning and fees, net ≈ <b>\$12,000.</b>  There is potential to increase frequency in summer (high demand season) – e.g. 8 weekends = 16 nights could net ~\$4–5k alone. Achieving ~14% occupancy via STR would yield this \$12k net.</p>	<p><b>9/10 – Zoning:</b> Likely permissible as a "Vacation Home Rental" in AE zone with a simple permit (Humboldt County allows vacation rentals in most zones, with some basic standards) <sup>54</sup> <sup>55</sup> . A quiet retreat house aligns with rural use; just ensure to not host large loud parties.  <b>Climate:</b> Good fit – summer tourists will love it; winter bookings may slow, but holidays could attract families. STR doesn't conflict with retreat use; one can schedule around retreats.</p>

Auxiliary Strategy	Setup Cost & Requirements	Est. Annual Net Income	Zoning/Climate Fit Score
<b>B. Eco-Camping / Glamping</b> <b>Sites</b>  (Set up a few luxury tent or cabin sites for nature campers)	<p><i>Cost:</i> Moderate – e.g. install 2 off-grid glamping tents on platforms, or small cabins. Each site ~\$10k (platform, canvas tent or pre-fab hut, bedding, solar lights). Also need a bathhouse or composting toilet + outdoor shower (~\$15k) for campers separate from main house. Total for 2 sites: ≈ \$35k. &lt;br/&gt;&gt;<i>Ops:</i> List on Hipcamp or similar. Minimal hosting; provide fire pit, water, and maintain facilities. Close during extreme fire danger.</p> <p><i>Income:</i> If each glamping site rents at \$100/night and sees 60 nights use (primarily May-Oct weekends), that's \$6k gross per site. For 2 sites, <b>\$12,000 gross</b>. Net after cleaning/maintenance ≈ <b>\$10,000</b> (the beauty of off-grid glamping is low ongoing costs). &lt;br/&gt;&gt;There's upside if adding more sites or raising rates for unique offerings (e.g. "pond-side yurt" could fetch more). Also, can offer add-ons (meal baskets, etc.).</p>	<p><b>7/10 – Zoning:</b> Likely allowed with a conditional use: Humboldt permits "incidental camping area" on TPZ land <sup>14</sup>, which this would fall under. With the retreat CUP, you could include these as part of the project description (private campsites for guests). Need to ensure septic or toilet plan is health-code compliant (composting toilets or pit privies may need Environmental Health sign-off). Limit number of sites to keep low impact. &lt;br/&gt;&gt;<b>Climate:</b> Good seasonal fit. Summer/fall camping is delightful here. Winter camping demand will be near zero (due to rain/cold), but you can winterize or close sites in off-season.</p>	

Auxiliary Strategy	Setup Cost & Requirements	Est. Annual Net Income	Zoning/Climate Fit Score
<b>C. Timber Harvest or Carbon Credits</b>   <i>(Sustainable logging or conservation income from the forest)</i>	<p>Cost: Planning and compliance costs more than upfront \$. For timber: hire a forester to do a Timber Harvest Plan (THP) – ~\$5k-\$10k cost. Logging contractor then handles harvest at their expense, paying you net proceeds. Selective harvest of say 50 acres might be feasible periodically. For carbon credits: cost to enroll in a carbon program (inventory, legal) maybe \$20k+, but you get paid for agreeing not to cut trees beyond sustainable rate.</p>	<p><b>Income: Timber:</b> Depending on stand, a light harvest could net \$500-\$1,000 per acre. If ~50 acres selectively logged every 10-15 years, you might see \$25k-\$50k once in that period (average ~\$2,500/year if prorated). Not huge, but occasional windfall and maintains forest health if done right. &lt;br/&gt;<b>Carbon Credits:</b> If enrolled in a compliance or voluntary carbon market, 169 acres of redwood/Douglas-fir could yield perhaps 500-1,000 credits a year. At, say, \$10/credit (voluntary market), that's \$5k-\$10k/year. But program length is decades, and it restricts future harvest.</p>	<p><b>8/10 – Zoning: Perfect fit for TPZ.</b> The land is actually intended for timber production – logging is principally permitted and even somewhat expected under TPZ rules (need a sustained yield plan) <sup>56</sup> <sup>57</sup>. A well-managed harvest is fully compliant (though you'd do it infrequently to preserve retreat aesthetics). Carbon projects also fit since they preserve forest – likely fine under zoning (still maintaining timber use, just not cutting). &lt;br/&gt;<b>Climate:</b> The forest grows well (lots of rain); sustainable yield could be maintained. Wildfire risk is a concern – a thinning harvest might reduce fire fuel, ironically <b>helping</b> the retreat's safety. The main drawback is that active logging could temporarily disrupt the retreat (noise, mess). You'd schedule it in off-season and warn guests or pause operations.</p>

Auxiliary Strategy	Setup Cost & Requirements	Est. Annual Net Income	Zoning/Climate Fit Score
<b>D. Small-Scale Agriculture or Animals</b> <i>&lt;br/&gt;(Honey, herbs, or renting pasture for livestock)</i>	<p>Cost: Relatively low. Beekeeping setup (4-5 hives) ~\$2k. Fencing a portion of pasture for a few cattle or horses: \$5k-\$10k (for robust fencing). Orchard or medicinal herb garden: \$3k for plants and irrigation. This leverages the land's ag potential.   <b>&lt;br/&gt;Ops:</b> Bees require periodic management; honey can be sold to retreat guests (\$\$). A few cows or leased grazing brings passive income but need checking water and fences. Gardens can supply retreat kitchen and produce for sale.</p>	<p><b>Income: Honey/Hives:</b> 5 hives can yield ~100 gallons of honey a year; local raw honey goes ~\$50/gal retail. Gross \$5k; after costs, maybe <b>\$3,000</b> net, plus wax, etc.   <b>&lt;br/&gt;Grazing lease:</b> 10-20 acres of meadow could support 5-10 animal units seasonally. A neighbor might pay ~\$500-\$1,000/year to graze cattle (saves them feeding hay). Not huge: say <b>\$750</b> net and keeps grass mowed (fire mitigation!).   <b>&lt;br/&gt;Crops:</b> A small herb or flower farm could produce products for sale at retreats (teas, essential oils). Hard to estimate, but maybe <b>\$2,000</b> net if actively pursued.   All combined, perhaps <b>\$5k+</b> net and enhances the retreat experience (farm-to-table).</p>	<p><b>9/10 – Zoning:</b> Completely allowed – property is zoned AE (Agricultural Exclusive), which <i>encourages</i> agriculture. Beekeeping, grazing, and planting crops are by-right uses. No special permit needed as long as it's for own use or small-scale sales.   <b>&lt;br/&gt;Climate:</b> Excellent for grass and gardens (ample rain, decent soil in meadows). Kneeland does get some frost due to elevation, but many crops still thrive. Bees do well in this environment with diverse forage (wildflowers, forest). This strategy diversifies income and also engages retreat guests (they can participate in gardening or enjoy farm products). The scale is small so it won't distract from the retreat focus.</p>

*(Scores for zoning/climate fit are subjective 0-10: higher = easier to do under regulations and suitable given local environment.)*

Each of the above strategies can be mixed and matched. For example, one could implement **A + B + D**: rent the house on off weekends, host 2 glamping tents in summer, and keep bees – together these might net an extra ~\$25k/year, significantly boosting total income resilience. The property's large size and mixed terrain allow doing these without interference (glamp sites could be tucked out of view of the main house; bees placed safely away from guest paths; grazing in far meadow, etc.). It's prudent to start small (perhaps begin with the STR and one glamping tent) and expand as you learn demand and bandwidth. Humboldt's rural entrepreneurial spirit and the property's zoning support such diversified uses, making the retreat venture more robust to seasonal and market fluctuations.

## Off-Grid Solar Feasibility (Year-Round Power)

**Current Status:** The home is off-grid, currently served by a modest solar array ( $\approx 2.5$  kW) with batteries ( $\approx 23$  kWh storage) and a backup diesel generator <sup>15 58</sup>. This setup was likely designed to power basic household needs and small agricultural loads. For a retreat center, where multiple guests may use lights, charge devices, run appliances, and maybe heat water simultaneously, the system must be upgraded. Winter in Kneeland poses a challenge: short daylight ( $\lesssim 10$  hours, with  $\sim 3-4$  peak sun hours) and frequent cloud cover (rainy season). Summer, on the other hand, offers abundant sun (6-7 peak sun hours). We need a system sized for the **worst-case (winter)** to run largely on solar, with generator only as occasional backup.

**Power Demand Estimate:** With 7 guests + 1 owner, plus facility needs: - Lighting: Mostly LED, say 200 W in use during evenings. - Appliances: Fridge (~150 W average), chest freezer (100 W avg), water pump (500 W when running, intermittent), laptop/phone charging (200 W), washer (500 W when running), etc. - Kitchen: Propane stove/oven (minimal electric draw), but there will be some microwave or small appliance use (1000+ W for short periods). - Hot water: Likely propane heater (so negligible electric, just controls). - Space heating: Wood stove and propane, so no electric HVAC load. - Thus, continuous draw might be  $\sim 0.5-1$  kW average, with spikes to 2-3 kW when pump and microwave etc. run concurrently.

Averaged over 24h, daily energy might be around **10-15 kWh** on a low-use day, up to 20+ kWh if lots of usage (doing laundry, etc.). To be safe, design for **~20 kWh/day consumption**.

**Solar Array Sizing:** During worst month (say December),  $\sim 3$  peak sun hours/day. To generate 20 kWh in that, one needs **~7 kW** of PV (because  $7 \text{ kW} * 3 \text{ h} \approx 21 \text{ kWh}$ ). Accounting for system losses (inverters, battery charge inefficiency  $\sim 20\%$ ), and wanting a buffer for cloudy days, a larger array is prudent. We recommend **~8 kW solar capacity**. This could be  $\sim 24$  panels of 330 W each. In summer, 8 kW will over-produce (which is fine, excess can charge batteries quickly or be diverted to an auxiliary load like pumping water to storage).

**Battery Bank:** To carry loads through nights and multi-day storms, a sizable battery is needed. Current 23 kWh might cover barely one day of use (if 20 kWh used). Aim for at least **2 days autonomy** without sun:  $\sim 40$  kWh usable storage. That could be achieved with, for example, 3-4 Tesla Powerwall units (13.5 kWh each, 90% DOD) or an equivalent LiFePO<sub>4</sub> battery bank. A  $\sim 40$  kWh bank ensures that even if one full cloudy day occurs, you have power until the generator steps in on day 2 or 3.

**Generator:** The backup generator (possibly a 25 kW diesel per prior permit <sup>15 58</sup>, though 25 kW seems high; maybe it's 2.5 kW? However, a larger 10-15 kW generator is typical to handle big loads or charge batteries quickly) should be reliable and ideally automated. A propane generator might be considered (propane can be stored onsite in big tanks and doesn't spoil like diesel), but since diesel is on hand for equipment, either works. Ensure  $\sim 3-5$  days worth of fuel storage (e.g. 200 gallons diesel or equivalent) especially for winter.

**Cost Estimate:** Solar PV  $\sim \$2$  to  $\$3$  per watt installed for off-grid (higher than grid-tied due to additional equipment). For 8 kW, that's  $\sim \$16k$ - $\$24k$ . Batteries: Powerwalls are  $\sim \$10k$  each retail; 4 of them  $\sim \$40k$ . Or a custom battery bank (48V industrial batteries) might be  $\sim \$20k$  for 40 kWh but with shorter lifespan. Include inverters, charge controllers, etc.: maybe  $\$10k$ . So total could be  **$\$50k$ - $\$70k$**  for a robust off-grid system.

Notably, the prior permit info suggests some solar equipment is already present; if that can be integrated (the 2.5 kW of panels, some inverters), it might shave a bit off cost. There are also federal tax credits of 30% for solar installations which the owner could utilize since it's a business (and possibly roll into a mortgage if using a renovation loan).

**Winter Viability:** With the above 8 kW/40 kWh system, the retreat should handle typical winter conditions. In extended storms (say a week of rain), the generator would need to run intermittently. One might run it ~4–5 hours every other day to bulk-charge batteries – that consumes fuel but ensures continuity. Alternatively, *load management* in winter (encouraging conservative electricity use, scheduling laundry and heavy use on clear days) will help. If more sustainability is desired, one could add a **micro-hydro turbine** if the creek has enough drop and flow (this could produce a steady few hundred watts in winter, offsetting some needs – but requires significant engineering and permits). Wind power is another thought, but Kneeland isn't especially known for constant wind (though ridges get breezes).

**Operation & Maintenance:** The solar power system will require periodic battery checks (if not sealed batteries), inverter servicing, and panel cleaning. Given it's critical infrastructure, the owner or a technician should inspect it quarterly. The generator needs oil changes, etc., as per manufacturer (usually every 100–200 hours run). Keeping spare parts (an extra water pump for the generator, spare inverter, etc.) on site can save long downtimes.

In conclusion, **year-round off-grid power is feasible** here, but it requires a substantial up-front investment in an appropriately sized solar+battery system. The payoff is a reliable, silent power supply supporting the retreat without the noise and expense of constant generator use. Our sizing (8 kW PV, 40 kWh storage) is aimed to cover ~90% of days with solar alone, using the generator only as a backup. This ensures even in December the center can run smoothly. Over-sizing a bit (if budget allows, e.g. 10 kW, 60 kWh) would add extra resilience and allow for expansion (like powering future cabins or EV charging), but the described setup strikes a good balance of cost and capability. With this system in place, the retreat can proudly run on clean energy year-round – a selling point to eco-conscious guests as well.

*(See Appendix C for a brief solar sizing calculation worksheet.)*

## Construction vs. Repair: New Residence vs. Upgrading Existing

Should the retreat owner build a new dwelling (for owner or additional guest space) or focus on repairing/extending the existing house? We examine the cost, time, and practical aspects of each approach:

- **Option 1: Build a New 1,000–1,500 sqft Residence (Off-Grid Capable)**
  - **Use Case:** This could serve as the owner's private home, freeing the entirety of the barn lodge for guests. Or it could be a second guest lodge for larger retreats or separate rental.
  - **Cost:** Construction costs in rural Humboldt are high due to contractor scarcity and transport. Current estimates range **\$250–\$350 per sqft** for a modest finish <sup>59</sup> <sup>60</sup>. For ~1,200 sqft, that's ~\$300k (using \$250/sqft) on the low end, to ~\$420k on high end. Off-grid systems (power, septic, water hookup) add extra: tie into existing well (maybe \$5k for trenching/pump if far), or drill new well (\$30k?), a new septic system (\$10k–\$20k), plus solar power setup (\$50k as above, unless sharing with main house). Perhaps the new build can share some infrastructure: it could connect to the current well and even share the expanded solar array if located nearby. But septic likely needs its own or an enlarged leach field. Assuming some sharing, add maybe **\$40k** for utilities. So total ~\$340k–\$460k.

- *Time & Permitting:* Would require a **building permit** from the County. Timeline: ~6-12 months for design, engineering (structural, Title 24 energy calcs), and permit approval. Humboldt's permit process is known to be slow; expect closer to 12 months including possible CalFire clearance (wildland building requires certain fire-resistant features). Construction itself likely ~6-9 months if a contractor crew is dedicated. Realistically, from planning to move-in could be **1.5 to 2 years**. Contractors are in demand; you might wait to get on their schedule. Owner-building is an option if skilled, but remote builds still need inspections at stages.
- *Labor/Materials:* Remote site implies extra cost for delivering materials (gravel, concrete, lumber up the rough road) and maybe even lodging workers on-site. Material costs have been volatile, but currently slightly down from peak; still, budgeting at upper range is safer. Local labor is limited – many crews focus on post-fire rebuilds or easier city jobs, so one might pay a premium to attract a crew to Kneeland.
- *Outcome:* A new house gives modern, energy-efficient space with low maintenance. It would increase property value (two houses on 169 acres – valuable for multi-family or retreat compound). But it's a large upfront expense and delays utilization. If the retreat cannot wait 2 years for an owner's home, the owner might have to live in part of the main house meantime.

- **Option 2: Repair/Extend the Existing Structure**

- *Use Case:* Finish the barn home to a higher standard and possibly extend it (e.g., convert some of the downstairs shop into additional living area or add a small addition) to accommodate both guests and owner comfortably.
- *Cost:* The existing house is partially unfinished. **Finishing** 1,600 sqft: drywall, flooring, fixtures – roughly \$50k (assuming much of it is simple work and owner can DIY some). **Repairs** needed (if any structural, roof fixes, etc.): not evidently major from info; allocate \$10k for misc. (deck repairs, paint, etc.). **Extension:** If desired, one could frame in a portion of the open workshop into a separate studio apartment for the owner. Converting ~500 sqft of shop space (insulate, finish walls, add a small bath and kitchenette) might run ~\$40k-\$60k. Alternatively, building a detached tiny cottage (e.g. 400 sqft) could be ~\$100k. But likely converting existing space is cheaper. Overall, one could spend **\$100k** and dramatically improve living/hosting capacity.
- *Time & Permitting:* Most cosmetic finish work may not need new permits (if the original building permit from 2012 is still technically open, one would final it out). If creating new bedrooms or a new kitchen in the shop, a building permit is needed for that remodel (especially for added plumbing/electrical). A minor remodel permit is quicker – perhaps a few months for approval. Work itself could be done in phases, possibly largely by owner or local handyworkers, over 6-12 months (and can be done while living there). So by the end of Year 1, the house can be fully guest-ready.
- *Labor/Materials:* Materials for finishing (drywall, flooring, fixtures) are readily available; one can even source locally milled wood for a rustic touch. Labor might be easier to get for small jobs incrementally, versus finding a general for a whole new build. The owner's sweat equity can significantly reduce cost here.
- *Outcome:* By extending/renovating the barn, you retain the single-structure setup. It may not have the privacy of two separate houses, but you can design an owner's quarters with a separate entrance, etc. The property's lodging capacity increases at lower cost and faster speed. The downside: the structure remains a single point of failure (if a fire hit that one building, both owner and guests are affected). And a barn conversion will always be a bit rustic compared to a custom new home. But given retreat clients often don't mind rustic charm, this is acceptable.

**Comparison:** Option 2 (repair/extend) is far more cost-effective – likely one-third the cost of Option 1 or less. It leverages what's there and can be completed much sooner, enabling the retreat to start earning income earlier. Option 1 provides a second independent dwelling which is great long-term, but it's a heavy investment upfront and carries more red-tape. In a stepwise approach, one might do Option 2 in years 1-3 (to get the business running), and consider Option 1 as a Phase 2 if expansion is needed or finances allow, possibly building a few eco-cabins instead of one big house.

**Permitting considerations:** Humboldt County generally allows an **additional unit** on AE zoned parcels (especially of this size, there's no density issue) <sup>30</sup>. So getting a permit for a new house is feasible in principle. But fire safety regulations for new dwellings in State Responsibility Area will impose requirements (e.g. a water tank for fire, sprinkler system, clearing vegetation) that add cost. Remodeling the existing house avoids some of those since it's grandfathered under older permit.

**Materials & Labor availability:** Post-pandemic, materials like lumber have stabilized, but windows, appliances, etc., can still have lead times. Local lumber could be sourced (even milled from on-site trees if one is enterprising). Labor is the tighter factor – many skilled trades in Humboldt are booked. Being flexible (working with semi-retired builders or doing DIY) can overcome this. If building new, you might attract a contractor from Redding or Medford for the project if local ones are scarce – but that adds cost for travel.

In summary, **repair/extension of the existing structure is the recommended path initially** for this retreat plan. It offers a habitable, character-filled base at far lower cost and delay. Building a new house can be a future goal once the retreat proves itself and funds accumulate. At that point, the new house could be justified as the owner's oasis or an upscale guest villa. Until then, maximizing what's there yields the best ROI.

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## Appendices

### Appendix A: Notable Defects & Repair Estimates (with Images)

**A1. Exterior Wood & Paint:** The wood siding and exterior stairway show weathering and likely have not been painted or sealed in recent years. The climate's moisture can cause mildew and wood degradation. *Recommendation:* Power wash and apply a high-quality exterior paint or stain to the siding, trim, and deck/stairs. Also add proper railing to the stair if not already up to code (ensure 42" height and balusters). *Cost:* Approximately **\$5,000** for paint (materials & labor) and minor carpentry on the stair/rail. This will protect the structure and improve curb appeal.

**A2. Pond Dam & Spillway:** The on-site pond is held by an earthen dam without a proper spillway. Evidence of erosion where water overtops in heavy rain is visible (vegetation wear and a channel cut on one side). This is a liability both for property and downstream. *Recommendation:* Implement the engineer's plan from the 2019 remediation project – likely constructing a rock-lined spillway or culvert through the dam, and reinforcing the dam with compacted fill. Remove any debris (old pipes, liner material) from the channel as required <sup>61</sup>. *Cost:* **\$20,000-\$40,000** range. A simpler interim fix might be possible for less, but given regulatory oversight, expect a professional job with heavy equipment. (*Funding note: This might already be budgeted by current owner's remediation plan; check if any cost-share or grant was obtained.*)

**A3. Greenhouse Frame Debris:** In one meadow, multiple metal hoop frames (likely from former greenhouses) are left standing or in disarray. These rusting frames are not only an eyesore in the pastoral landscape, but also could be safety hazards (sharp metal edges) and interfere with wildlife or grazing. *Recommendation:* Dismantle and remove all abandoned cultivation infrastructure. Recycle the metal (~could even get a small scrap value). Smooth out any disturbed soil. This will return the meadow to a natural state, better suited for retreat activities (could become a meditation circle or camping area). *Cost:* If DIY with some helpers, just disposal fees; with labor hired, around **\$2,000-\$5,000** to remove all traces.\*

**A4. Interior Finishes:** The interior living spaces show incomplete finishes – e.g., visible taped drywall seams that were never mudded/painted, and sections of floor that appear to be subfloor or raw plywood (particularly downstairs). Trim is also missing in places. This unfinished look can feel “in progress” and is not ideal for paying guests. *Recommendation:* Hire a drywall finisher to tape and mud all unfinished walls, then paint all interior walls with mildew-resistant paint (important in Humboldt’s damp climate). Install durable flooring where needed – for a retreat, consider waterproof vinyl plank or engineered hardwood for easy cleaning. Add baseboard and window trim to give a completed appearance. *Cost:* Roughly **\$20,000** for 1,600 sqft (materials + labor), assuming much of upstairs is done and it’s mainly downstairs and touch-ups.

**A5. Foundation Posts:** The building rests on post-and-pier foundation (likely wooden posts on concrete footings) <sup>62</sup>. While not directly visible in the photos, the listing notes this. Such foundations in seismic zones need lateral bracing. *Potential Issue:* If not already braced, the posts could sway in an earthquake. Also, check for any rot at base of posts given ground moisture. *Recommendation:* Inspect all piers and posts. Add galvanized steel tie-down brackets connecting posts to beams and posts to footings if missing. Install 2x or metal X-bracing between posts to stiffen against lateral forces. Ensure a skirt or enclosure prevents animals from going under house and keeps debris out. *Cost:* **\$5,000** estimate for hardware and labor, potentially more if any posts need replacement.

**A6. Roof and Gutters:** The composition shingle roof (installed ~2012) should be in mid-life, but we should verify condition. Humboldt’s climate can encourage algae on shingles and clogged gutters. *Issue:* If gutters are absent (not clearly seen in photos), rainwater sheeting off could be causing erosion around foundation. If present, they may be full of needles/leaves. *Recommendation:* Install gutters and downspouts that route water away from the house. Add rainwater catchment tanks if desired for garden use. Clean the roof and apply moss treatment as needed. The roof ridge and flashing should be checked to ensure no leaks. *Cost:* **\$3,000** for new gutters on a 1,600 sqft home and minor roof maintenance.

**A7. Well & Water System:** Not depicted, but crucial. The well head should be checked – ensure it has a sanitary seal, and the pump house (if any) is weather-proof. Also verify what filtration exists. *Issue:* Rural wells can sometimes have coliform bacteria or high iron. *Recommendation:* Test water annually. Shock chlorinate the well initially if tests show any bacteria. Install a sediment filter and UV purifier (~\$1,200) to ensure safe drinking water for guests. Also, inspect the storage tanks (the prior owner had many poly tanks) <sup>37</sup> – make sure they’re in good shape and plumbed correctly. *Cost:* Water system upgrades **\$2,000** for filters/UV, plus any pump repair if needed.

**A8. Septic Vent & Riser:** Also not shown in images, but a quick visual of the septic leach field area (usually a grassy area downslope) is wise. *Issue:* Look for any soggy spots or smells indicating field saturation – none reported, so likely fine. The tank should have an accessible riser and proper venting. *Recommendation:* Install risers on septic tank if not present for easier pumping. Mark the leach field to avoid driving over it.

Given increased usage, consider adding a distribution box filter or outlet filter to prevent solids from clogging field. *Cost: Minor – \$500* for a filter and riser installation.

**A9. Access Road Condition:** The driveway and private road have some rough patches (the agent directions mention “ramps down” to pond, etc., implying steep bits)<sup>63</sup>. There may be ruts or potholes. *Recommendation:* Grade and gravel key sections of road, particularly steep grades, before winter. Creating proper water bars or culverts where water currently washes over will prolong road life. Also, the gates should be serviced (ensure they open/close smoothly) and signage put (“Coyote Creek Retreat ->” for guests). *Cost: \$5,000* for an initial significant road work (hiring a dozer or grader for a couple days, plus gravel). Annual touch-ups ~\$1k.

Each of these items addresses an aspect of the property that either poses a risk or detracts from the usability/aesthetics. Tackling them will help ensure the retreat launch is on solid footing, both literally and figuratively. The total estimated outlay for all listed repairs/upgrades is on the order of \$50k-\$75k, much of which aligns with the earlier budget assumptions for upgrades. This defect checklist can serve as a to-do list for the new owner’s first year. All fixes are feasible with local contractors or DIY effort; none appear to be deal-breakers, and in fact, mostly reflect normal rural property improvement.

## Appendix B: Comparable Sales Data (Humboldt County, last 12 months)

Below is a summary of selected comparable sales and listings that informed the fair-value assessment. (CSV-format data for reference.)

Address, Sale Date, Lot Size, Improvements, Sale Price, Price Notes
6810 Butler Valley Rd, Korbel CA, 2024-09-11, 160 acres, Two small homes (total 2037 sf, unfinished), \$226,000, (\$111/sf; distressed off-grid sale) <sup>28</sup>
1501 Tim Mullen Rd, Kneeland CA, 2024-08-05, 22 acres, Land only (power & well in), \$270,000, (\$12k/acre; ready-to-build view lot) <sup>41</sup>
1505 Tim Mullen Rd, Kneeland CA, 2024-08-02, 22 acres, 3bd/3ba house 2559 sf (built 2006), \$910,000, (\$356/sf; high-end rural estate) <sup>64</sup>
710 Coyote Creek Rd (Subject), Active Listing, 169 acres, 5bd/2ba house 1600 sf + barn/shop, \$449,000 (asking), (\$281/sf; off-grid, fair condition) <sup>47</sup> <sup>65</sup>

(Data sources: Humboldt MLS via Realtor.com and Homes.com sales records<sup>28</sup> <sup>64</sup>. Prices are rounded to nearest thousand.)

Interpretation: The subject’s ask of \$449k sits between very low-end unimproved land deals and the improved estate sale. On a per-acre basis, it’s a bargain (\$2,655/acre including a house), but on a per-sf of home basis (\$281/sf) it’s within normal range due to the small size of the house. The comps illustrate how remote, larger parcels in need of work often sell under \$300k (Comp 1), whereas parcels with nice homes can approach \$1M even with far less land (Comp 3). This dichotomy helped bracket our valuation for 710 Coyote Creek, which has a lot of land and a serviceable (if not luxurious) home.

## Appendix C: Off-Grid Solar Sizing Worksheet

**Goal:** Size solar PV and battery for 710 Coyote Creek retreat to supply ~20 kWh/day in winter with minimal generator use.

- **Daily Load Estimate:** 20 kWh/day (see Financial Viability for breakdown).
- **Winter Solar Insolation:** ~3 peak sun hours (Dec-Jan in Kneeland, accounting for weather).
- **Required PV Output:**  $20 \text{ kWh} / 3 \text{ h} = \approx 6.7 \text{ kW}$  of panels (at panel output). Including ~15% system losses (charging inefficiency, etc.), divide 20 kWh by  $0.85 \times 3 \text{ h} = 7.8 \text{ kW}$ . Rounding up for cushion: **8 kW PV array.**
- **Array Configuration:** e.g., 24 panels  $\times$  335 W = 8.04 kW. Ground-mount in a sunny clearing oriented south for max exposure (ideally tilt ~35° latitude angle).
- **Battery Capacity:** Target 2 days autonomy =  $2 \times 20 \text{ kWh} = \mathbf{40 \text{ kWh usable}}$ . With Lithium batteries ~90% usable depth-of-discharge, need ~44 kWh nominal. For example, 4  $\times$  Tesla Powerwall (13.5 kWh each) = 54 kWh nominal, ~49 kWh usable – sufficient. Alternatively, 8  $\times$  6V 400Ah lead-acid batteries in series (48V, ~19 kWh usable for 50% DOD) would need two strings for 38 kWh – but lead-acid less ideal. We lean to lithium for reliability.
- **Inverter System:** Need ~8 kW inverter capacity minimum to handle peak loads (maybe dual 4 kW units stacked for split-phase 240V). Also need MPPT charge controllers for PV (size to 8 kW).
- **Generator:** Already have diesel genset, presumably ~12–25 kW (the CUP said “MQ Whisperwatt 2500”, which likely indicates a 25 kVA unit <sup>15</sup>). That’s sufficient. Integrate with auto-start via inverter when batteries low.
- **Projected Autonomy:** 40 kWh battery can supply ~2 days with no sun. With 8 kW solar, on a typical winter day it will generate ~16–24 kWh (if partly cloudy). Generator might kick in perhaps 1 out of 5 days in a bad stretch. In summer, system will be overkill – batteries full by midday, allowing maybe future loads (like EV charging or running workshop tools).
- **Cost Recap:** Panels \$1/W (wholesale) = \$8k, rack/mount \$2k, inverter & charge controllers ~\$5k, lithium batteries ~\$30k, install labor/wiring ~\$10k. Total  $\approx \mathbf{\$55k}$ . (If hiring a solar installer turnkey, could be higher; self-install lowers cost but is complex).
- **ROI:** Off-grid solar doesn’t “pay back” in selling electricity, but avoids generator fuel costs and provides silent, clean power – essential for retreat ambiance (no humming genset during a meditation session!). Fuel savings: if generator were primary, at 20 kWh/day, that’s ~4 gal diesel/day (~\$20/day); over 10 years that’s \$73k fuel plus wear – so the solar pays for itself in avoided fuel and maintenance, aside from being green.

This worksheet confirms the earlier recommendation of ~8 kW PV & ~40 kWh storage. It also ensures any future expansions (like a new cabin with some extra load) have headroom, especially in summer. If budget constrained, one could start with ~5 kW PV & 20 kWh battery (cover ~1 day) and add on later, but economies of scale favor building the full system upfront (also simplifies permit if needed for solar).

**Note:** All calculations assume efficient energy use. Further load reduction (LED lighting, propane for heating/cooking which is already the case, perhaps solar water heater for domestic hot water) can reduce electrical demand. Every kWh saved is that much less panel/battery needed. Thus, part of the strategy is also energy efficiency education for guests (“off-grid etiquette”) to ensure system robustness.

1 2 3 4 5 6 7 8 9 10 16 17 26 27 32 33 34 44 45 46 47 62 63 65 property info.docx  
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11 15 35 37 58 COUNTY OF HUMBOLDT - File #: 12765

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