APPENDIX C

AQUATIC RESOURCES DELINEATIONS



DRAFT Aquatic Resources Delineation Report

Stone Beetland

City of Sacramento, Sacramento County, California

January 2021

Prepared for:

Clifton Taylor Taylor Builders, LLC. 508 Gibson Drive, Suite 260 Roseville, California 95678

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1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources (ARD) within the Stone Beetland Study Area (Study Area) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 127acre Study Area is located northeast of the intersection of Cosumnes River Boulevard and Delta Shores Circle in the City of Sacramento, Sacramento County, California. The Study Area is located within Sections 7, 8, 17, and 18; Township 7 North; Range 5 East (MDB&M) of the *"Florin, California"* 7.5-Minute Series USGS Topographic Quadrangle (USGS 2018) (**Figure 1**).

1.1 Contact Information

| Property Owner | Agent |
|-----------------------------|------------------------------------|
| Clifton Taylor | Ben Watson |
| Taylor Builders, LLC. | Madrone Ecological Consulting, LLC |
| 508 Gibson Drive, Suite 260 | 8421 Auburn Boulevard, Suite 248 |
| Roseville, California 95678 | Citrus Heights, California 95610 |

2.0 METHODOLOGY

Madrone senior biologist Matt Hirkala conducted an ARD within the Study Area on 20 September 2019 and 22 December 2020. Water features and data points were mapped in the field with an Arrow 100 GNSS unit, which is capable of sub-meter accuracy. Three-parameter data (vegetation, soils, and hydrology) were collected at each data point, documenting wetland/waters or upland status, as appropriate. An aquatic resources delineation map was prepared in accordance with the *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program* (USACE 2016a). The field data was overlaid on an orthorectified aerial photograph flown 17 June 2020 (Maxar 2020) (Attachment A).

The delineation was performed in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b), and the Sacramento District's *Minimum Standards for Acceptance of Preliminary Wetlands Delineations* (USACE 2016b). U.S. Army Corps of Engineers (USACE) regulations (33 CFR 328) were used to determine the presence of Waters of the United States other than wetlands. The most recent *National Wetland Plant List*, which went into effect on May 18, 2020, was used to determine the wetland indicator status of plants observed in the Study Area (USACE 2018). The *Jepson eFlora* (Jepson Flora Project 2020) was used for plant nomenclature, except where it conflicted with the nomenclature in the *National Wetland Plant List*, which was given priority.

3.0 EXISTING CONDITIONS

According to LiDAR elevation data provided to Sacramento County by Merrick & Company in 2004 and 2007, the Study Area is situated on relatively flat terrain at elevations ranging from approximately 6 to 18 feet above sea level.

Most of the site is characterized by flat terrain that has been historically leveled, ditched, and drained for agricultural use. The northeastern corner displayed uneven topography due to the presence of several trash and spoils piles; several "squatter" gardens were located within the Study Area along the northern fence line and appear to have been planted by residents from the abutting neighborhood to the north. Fallow agricultural lands occupy areas to the south and west, and the eastern boundary borders the toe of a large levee constructed along Morrison Creek. A portion of the Sacramento Regional Transit Light Rail "Blue Line" (Light Rail) parallels the eastern boundary just west of Morrison Creek. A newly constructed Light Rail station and detention basin are located directly adjacent to the Light Rail line; this station is not currently in use, though construction activities were observed during the 22 December 2020 site visit.

3.1 Terrestrial Vegetation Communities

3.1.1 Annual Brome Grassland

The majority of the Study Area supports fallow agricultural lands reverting to annual brome grasslands that are characterized by soft chess (*Bromus hordeaceus*), wild oats (*Avena fatua*), rip-gut brome (*Bromus diandrus*), and perennial rye (*Lolium perenne*). Common herbaceous species include prickly lettuce (*Lactuca serriola*), yellow star-thistle (*Centauria solstitialis*), and alkali mallow (*Malvella leprosa*). The perimeter of the site was disked to form firebreaks, but vegetation was present in these areas. The area immediately south of the abutting residential development to the north support a variety of non-native and ornamental trees and shrubs including fruitless mulberry (*Morus alba*) and tree of heaven (*Ailanthus altissima*).

3.1.2 Willow Riparian Woodland

A small willow riparian woodland comprised predominately of arroyo willow (*Salix lasiolepis*), sandbar willow (*Salix exigua*) and poison oak (*Toxicodendron diversilobum*) flank the banks of a small intermittent drainage in the southeast corner of the Study Area. A well-developed homeless encampment present during the 20 September 2019 site visit has since been abandoned. Much of the riparian corridor has been destroyed by fire – see photo point 9 in **Attachment B**.

3.1.2 Disturbed

Disturbed areas are restricted to the farm roads along the periphery of the Study Area and the vicinity of the Light Rail station that was undergoing construction at the time of the site visit. These areas are comprised of compacted earth and/or gravel. The edges of the fields support ruderal vegetation, including stinkwort (*Dittrichia graveolens*), Russian thistle (*Salsola tragus*), tumbleweed amaranth (*Amaranthus albus*), pigweed amaranth (*A. blitoides*), rough cocklebur (*Xanthium strumarium*), wild radish (*Raphanus sativus*),

milk thistle (*Silybum marianum*), and white goosefoot (*Chenopodium album*). Noted ruderal vegetation included bindweed (*Convolvulus arvensis*), black mustard (*Brassica nigra*), and broad leaf filaree (*Erodium botrys*).

3.2 Hydrology

The Study Area in general drains to the south towards an unnamed tributary to the Cosumnes River, which is located approximately 850 feet south of the parcel. The Cosumnes River is tributary to the Mokelumne River, which the USACE classifies as navigable from its mouth to Frandy Gage (3.5 miles upstream from New Hope Road). However, no surface connection to this unnamed tributary was observed during the site visit. Further information is provided below in the discussion of delineated aquatic features.

The Study Area is set within the Upper Cosumnes Sub-Basin (Hydrologic Unit Code 18040013) and the Upper Cosumnes River Watershed (1804001306) (USGS 2013).

3.3 Soils

The NRCS has mapped the six soil units listed below within the Study Area (Figure 2) (NRCS 2020):

- <u>Clear Lake clay, partially drained, 0 to 2% slopes, frequently flooded (114)</u> the Clear Lake component and the Dierssen and Egbert inclusions are classified as hydric. This soil map unit is non-saline to slightly saline; and the pH ranges from slightly acid to moderately alkaline within the upper portion of the root zone.
- <u>Clear Lake clay, hardpan substratum, drained, 0 to 1% slopes (115)</u> the Clear Lake component and the Cosumnes inclusion are classified as hydric. This soil map unit is non-saline to very slightly saline; and the pH ranges from slightly acid to moderately alkaline within the upper portion of the root zone.
- 3. <u>Egbert clay, partially drained, 0 to 2% slopes (141)</u> the Egbert component and the Clear Lake, Gazwell, Laugenour, Scribner, and Valpac inclusions are classified as hydric. This soil map unit is non-saline to very slightly saline; and the pH ranges from slightly acid to slightly alkaline within the upper portion of the root zone.
- 4. <u>Galt clay, 0 to 1% slopes, MLRA 17 (152)</u> the Galt component and the Clear Lake inclusion are classified as hydric. This soil map unit is non-saline; and the pH ranges from slightly acid to neutral within the upper portion of the root zone.
- 5. <u>Galt clay, 0 to 4% slopes, MLRA 17 (153)</u> the Galt component and the Clear Lake inclusion are within the root zone. classified as hydric. This soil map unit is non-saline; and the pH ranges from slightly acid to neutral within the upper portion of the root zone.

6. <u>Galt-Urban land complex, 0 to 1% slopes, MLRA 17 (154)</u> – the Galt component and the Clear Lake and Egbert inclusions are classified as hydric. This soil map unit is non-saline; and the pH ranges from slightly acid to neutral within the upper portion of the root zone.

3.4 Driving Directions

To access the Study Area from Sacramento, drive south on Interstate 5 for approximately 9 miles and travel east after taking Exit 510 to Cosumnes River Boulevard. Continue east on Cosumnes River Boulevard for approximately 1.8 miles; the Study Area is located on the north side of Cosumnes River Boulevard.

4.0 RESULTS

A total of 0.542 acre of aquatic resources were delineated within the Study Area (Table 1).

| Resource Type | Acreage |
|--------------------|--------------|
| Detention Basin | 0.242 |
| Ephemeral Ditch | 0.017 |
| Intermittent Ditch | 0.283 |
| Study Area Total | <u>0.542</u> |

Table 1. Aquatic Resources Mapped within the Study Area

Representative photos of the Study Area are included in **Attachment B**. Arid West Wetland Determination Data Forms are included in **Attachment C**, maps of the aquatic resources are included as **Figure 3** and **Attachment A**, and a list of the plant species observed in the Study Area with their wetland indicator status is included in **Attachment D**. GIS Shapefiles and the *Aquatic Resources Excel Spreadsheet* for mapped aquatic resources within the Study Area are included on a CD in **Attachment E**. Each of the feature types is described below.

4.1 Detention Basin

One approximately 0.242-acre detention basin was delineated within the Study Area. Based on a review of historic aerial photography available on Google Earth and HistoricAerials.com, this feature was excavated prior to February of 2014 as part of the newly constructed Light Rail station located along the east edge of the Study Area west of the Morrison Creek levee (photo point 13 in **Attachment B**). This feature is completely surrounded by cyclone fencing associated with the Light Rail station and supported hydrophytic vegetation such as perennial ryegrass (*Lolium perenne*) and tall flat-sedge (*Cyperus eragrostis*). The detention basin is connected to an intermittent drainage ditch that parallels the west side of the Light Rail tracks by way of a culvert. Nd data points were taken in this feature due to its obvious break with the surrounding uplands.

4.2 Ephemeral Ditches

Two ephemeral ditches totaling approximately 0.017 acre were mapped within the Study Area. These two features were originally connected, but were permanently separated by a construction haul road in 2006. The northern ephemeral ditch (ED-2) drains through a culvert to the neighboring parcel to the north, which is topographically several feet lower than the Study Area at this location. ED-1 currently drains southward into a storm drain, but originally was part of a larger irrigation system extending to the south. This feature was truncated some time in 2005 during the construction/extension of Cosumnes River Boulevard south of the Study Area.

These features displayed a very minor bed and bank and the destruction of terrestrial vegetation, which were used to delineate their extent. Plant species present predominantly included perennial ryegrass (*Lolium perenne*) and Mediterranean barley (*Hordeum marinum*). The lack of algal matting/biotic crust infers that ponded water does not persist within these features.

4.3 Intermittent Ditches

Two intermittent ditches totaling approximately 0.283 acre were mapped within the Study Area. In 1957 these two intermittent ditches were part of a continuous irrigation network that was also connected to the above-discussed ephemeral ditches as well as off-site irrigation features to the south; however, ditch realignments, the construction of the Light Rail station and tracks, and the construction of Cosumnes River Boulevard have fragmented these features. Currently, ID-1 is connected to a culvert that daylights under the Light Rail tracks to the east, and ID-2, located in the southeast corner of the Study Area, runs eastward then northward at the base of the Light Rail tracks. It too daylights by way of a culvert to the east under the Light Rail tracks. ID-2 extends less than 20 feet to the south of the Study Area boundary before dead ending.

These features also displayed a bed and bank and the destruction of terrestrial vegetation, which were used to delineate their extent. Plant species present predominantly included perennial ryegrass (*Lolium perenne*) and Mediterranean barley (*Hordeum marinum*), though the southeasternmost extent of ID-2 was mostly devoid of vegetation. These features were classified as intermittent since algal matting was present in the deeper reaches and inundation was present in some historic aerial photos taken during the wet-season.

5.0 CONCLUSION

With the publication and implementation of the 2020 Navigable Waters Protection Rule (2020 Rule), Madrone has analyzed the jurisdictional status of the aquatic resources within the Project site under the new rule. We believe none of the aquatic resources mapped within the Study Area are subject to USACE jurisdiction under the 2020 Rule. It is our opinion that all of the drainage ditches would be considered non-jurisdictional under Sections 328.3(b)(7) and (b)(8) of the 2020 Rule as they are all ditches constructed in uplands solely for the purpose of containing and conveying irrigation water, and as they are not relocated tributaries, excavated in tributaries, or drain wetlands.

The applicant is requesting an Approved Jurisdictional Determination (PJD) for the aquatic resources mapped within the Study Area (Attachment A). A signed statement providing USACE staff accompanied access to the Study Area is included as Attachment G.

6.0 **REFERENCES**

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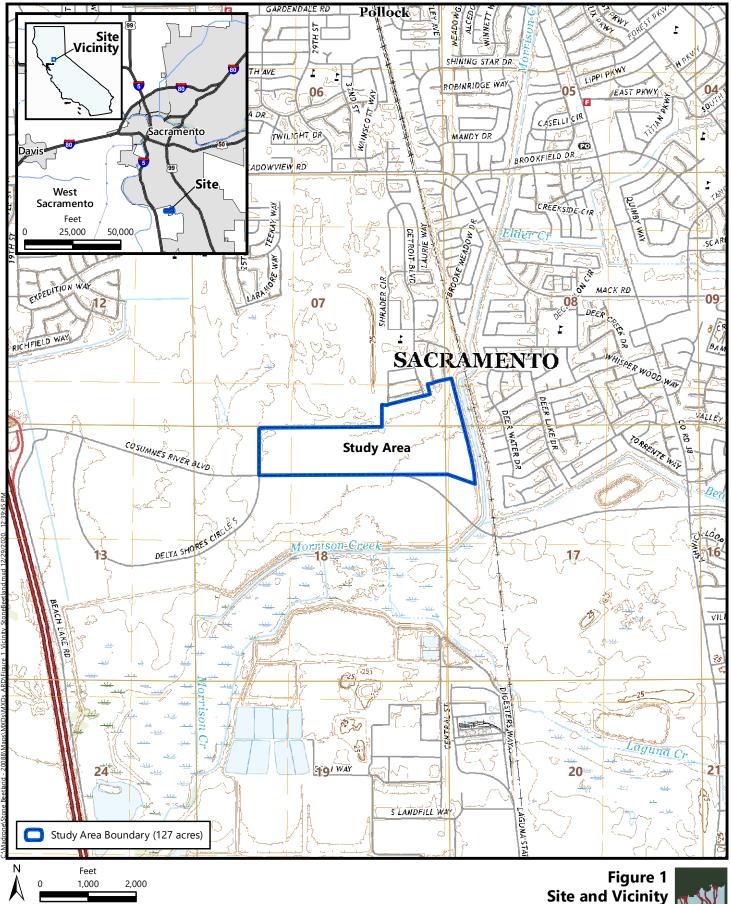
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- U.S. Department of the Interior, Geological Survey (USGS). 2018. "Florin, California" 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

Figures

- Figure 1. Site and Vicinity Map
- Figure 2. Natural Resources Conservation Service Soils
- Figure 3. Aquatic Resources



Source: United States Geologic Survey, 2018. "Florin, California" 7.5-Minute Topographic Quadrangle Sections 7-8, and 17-18, Township 7 North, Range 5 East Longitude -121.469194, Latitude 38.466003







Soil Survey Source: USDA, Soil Conservation Service. Soil Survey Geographic (SSURGO) database for Sacramento County, California Aerial Source: Maxar, 17 June 2020 Figure 2 Natural Resources Conservation Service Soils



Stone Beetland Sacramento, Sacramento County, California



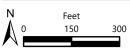


Figure 3 Aquatic Resources



Stone Beetland Sacramento, Sacramento County, California

Attachments

Attachment A. Aquatic Resources Delineation - Stone Beetland

- Attachment B. Photo Points
- Attachment C. Arid West Wetland Determination Data Forms
- Attachment D. Plant Species Observed within the Study Area
- Attachment E. GIS Shapefiles and the Aquatic Resources Excel Spreadsheet (on CD)
- Attachment F. Access Letter

Aquatic Resources Delineation – Stone Beetland

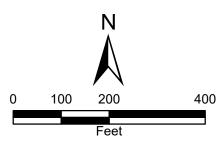


Notes:

Map Scale: 1 inch = 200 feet
Coordinate System: NAD 1983 State Plane California II
Datum: NAD83 (North American Datum 1983)
Projection: Lambert Conformal Conic
Vertical Data: NAVD88 (North American Vertical Datum 1988)
Aerial Base: Maxar Technologies
Aerial Base Flown: 17 June 2020
Topographic Contours: MacKay & Somps

Date Map Prepared: 19 January 2021 Map Prepared by: N. Bente/M. Hirkala Delineation Performed by: M. Hirkala Definitions:

NAD = North American Datum NAVD = North American Vertical Datum NED = National Elevation Datase



Prepared For:

Taylor Builders, LLC c/o Clifton Taylor 508 Gibson Drive, Suite 260 Roseville, CA 95678

- Study Area Boundary (127 acres)
- Reference Point
- Data Point
- * Culvert

 \sim Ground Surface Elevation,1 foot contour

Aquatic Resources (0.542 acre) Other Waters

- Detention Basin (0.242 acre)
- Ephemeral Ditch (0.017 acre)
- Intermittent Ditch (0.283 acre)

Aquatic Resources Delineation Stone Beetland

Sacramento, Sacramento County, California, California

MADRONE ECOLOGICAL CONSULTING

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Attachment B

Photo Points





Photo Point-07

Photo Point 15

Photo Point 14

Photo Point 12

Photo Point 08

Photo Point 13

Photo Point 10

Photo Point 09 Photo Point 11

Photo Point Locations



Stone Beetland Sacramento, Sacramento County, California



Photo Point 01- Lat.: 38.466781/Long.: -121.477273; Compass Angle: 90°



Photo Point 01- Lat.: 38.466781/Long.: -121.477273; Compass Angle: 0°



Photo Point 01- Lat.: 38.466781/Long.: -121.477273; Compass Angle: 180°



Photo Point 02- Lat.: 38.465178/Long.: -121.477701; Compass Angle: 0°



Photo Point 02- Lat.: 38.465178/Long.: -121.477701; Compass Angle: 180°



Photo Point 02- Lat.: 38.465178/Long.: -121.477701; Compass Angle: 270°



Photo Point 02- Lat.: 38.465178/Long.: -121.477701; Compass Angle: 0°



Photo Point 03 - Lat.: 38.464559/Long.: -121.471423; Compass Angle: 0°



Photo Point 03 - Lat.: 38.464559/Long.: -121.471423; Compass Angle: 180°



Photo Point 03 - Lat.: 38.464559/Long.: -121.471423; Compass Angle: 270°



Photo Point 03 - Lat.: 38.464559/Long.: -121.471423; Compass Angle: 90°



Photo Point 04 - Lat.: 38.465764/Long.: -121.471415; Compass Angle: 0°



Photo Point 04 - Lat.: 38.465764/Long.: -121.471415; Compass Angle: 270°



Photo Point 05 - Lat.: 38.466803/Long.: -121.471392; Compass Angle: 180°



Photo Point 05 - Lat.: 38.466803/Long.: -121.471392; Compass Angle: 0°



Photo Point 06 - Lat.: 38.466853/Long.: -121.466706; Compass Angle: 90°



Photo Point 06 - Lat.: 38.466853/Long.: -121.466706; Compass Angle: 90°



Photo Point 07 - Lat.: 38.468787/Long.: -121.464556; Compass Angle: 180°



Photo Point 07 - Lat.: 38.468787/Long.: -121.464556; Compass Angle: 90°



Photo Point 07 - Lat.: 38.468787/Long.: -121.464556; Compass Angle: 0°



Photo Point 07 - Lat.: 38.468787/Long.: -121.464556; Compass Angle: 270°



Photo Point 08 - Lat.: 38.464237/Long.: -121.464272; Compass Angle: 90°



Photo Point 08 - Lat.: 38.464237/Long.: -121.464272; Compass Angle: 165°



Photo Point 09 - Lat.: 38.464052/Long.: -121.463081; Compass Angle: 90°



Photo Point 09 - Lat.: 38.464052/Long.: -121.463081; Compass Angle: 180°



Photo Point 09 - Lat.: 38.464052/Long.: -121.463081; Compass Angle: 45°



Photo Point 10 - Lat.: 38.464276/Long.: -121.462713; Compass Angle: 0°



Photo Point 10 - Lat.: 38.464276/Long.: -121.462713; Compass Angle: 180°

Stone Beetland Photos: 22 December 2020



Photo Point 11 - Lat.: 38.464048/Long.: -121.462451; Compass Angle: 270°



Photo Point 12 - Lat.: 38.465578/Long.: -121.462731; Compass Angle: 270°



Photo Point 13 - Lat.: 38.464828/Long.: -121.46287; Compass Angle: 300°



Photo Point 14 - Lat.: 38.466795/Long.: -121.464129; Compass Angle: 90°



Photo Point 14 - Lat.: 38.466795/Long.: -121.464129; Compass Angle: 270°



Photo Point 15 - Lat.: 38.467209/Long.: -121.463167; Compass Angle: 270°

Attachment C

Arid West Wetland Determination Data Forms

| Project/Site: | Stone Beetlan | d | City/Co | ounty: <u>Sacramer</u> | nto County | ý | Sampling Date | e: | 12/22/20 |
|---------------------|---------------------|-------------------------------------|-------------|------------------------|------------|-----------------------|----------------------|--------------|----------|
| Applicant/Owner: | Taylor Builder | s, LLC | | | | State: CA | Sampling Poir | nt: | 1 |
| Investigator(s): | Matt Hirkala | | | ection, Townshi | p, Range: | Section 28, Tov | vnship 7 North, Rang | ge 7 East, N | /IDB&M |
| Landform (hillslop | e, terrace, etc.) | : terrace | Lo | cal relief (conca | ve, conve | x, none): <u>none</u> | S | lope (%): | <1 |
| Subregion (LRR): | Mediterranear | California (LRR C) | Lat: | 3 | 8.465862 | Long: | -121.476784 | Datum: | NAD83 |
| Soil Map Unit Nan | ne: <u>Galt cla</u> | ay, 0 to 4% slopes, MLRA 17 (| 153) | | | NWI Classificatio | on: <u>N/A</u> | | |
| Are climatic / hydr | ologic condition | ns on the site typical for this tir | ne of year? | Yes | х | No | (If no, explain in | Remarks.) | |
| Are Vegetation | , Soil | , or Hydrology | signifi | antly disturbed? | Are " | Normal Circumsta | ances" present? Y | es x | No |
| Are Vegetation | , Soil | , or Hydrology | natura | lly problematic? | (If nee | eded, explain any | answers in Remark | s.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | No No No | x x x | Is the Sampled Area within a Wetland? | Yes | No <u></u> _ | |
|---|-------------------|----------------|-------------|---------------------------------------|-----|--------------|--|
| Remarks: | | | | | | | |

| Tree Stratum (Plot size:) 1 2 3. | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) |
|--|---------------------|----------------------|---------------------|--|
| 4 | 0 | =Total Cover | | Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: Total % Cover of: Multiply by: |
| 2. | | | | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |
| 3. | | | | FACW species 0 x2 = 0 |
| 4. | | | | FAC species 50 x3 = 150 |
| 5. | | | | FACU species 55 x4 = 220 |
| | 0 | =Total Cover | | UPL species 5 x5 = 25 |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals:(A)395 (B) |
| 1. Bromus hordeaceus | 55 | Х | FACU | Prevalence Index = B/A = 3.6 |
| 2. Lolium perenne | 45 | Х | FAC | |
| 3. <u>Epilobium brachycarpum</u> | 5 | <u> </u> | FAC | Hydrophytic Vegetation Indicators: |
| 4. Convolvulus arvensis | 5 | <u> </u> | UPL | Dominance Test is >50% |
| 5 | | <u> </u> | | Prevalence Index is ≤3.0 ¹ |
| 6 | . <u> </u> | | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 8. | | | <u>.</u> | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 110 | =Total Cover | <u>.</u> | |
| Woody Vine Stratum (Plot size:) 1 | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | | | Hydrophytic |
| | 0 | =Total Cover | | Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes No X |

|)epth | Matrix | | Re | edox Features | | | | |
|--|--|------------|--|--|------------------|---|--|--------|
| nches) | Color (moist) | % | Color (moist) | % Type ¹ | Loc ² | Texture | Remar | ks |
| -12 | 10YR3/2 | 100 | | | | clay loam | | |
| | | · | | | | | | |
| | | · | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ype: C=C | Concentration, D=Depletic | on, RM=Re | duced Matrix, CS=C | Covered or Coated S | and Grains. | ² Location: PL=Pore Lining | , M=Matrix. | |
| vdric So | il Indicators: (Application | able to al | I I RRs. unless of | therwise noted) | | Indicators for Problem | natic Hydric Soils ³ | · |
| Jane ee | in indicatoror (ripping | | | | | indicatore for the bion | latio inganio cono | - |
| Histo | sol (A1) | | Sandv | Redox (S5) | | 1 cm Muck (A9) (L | RR C) | |
| | sol (A1) c Epipedon (A2) | | | Redox (S5) d Matrix (S6) | | 1 cm Muck (A9) (L 2 cm Muck (A10) | , | |
| Histic | c Epipedon (A2) | | Strippe | d Matrix (S6) | 1) | 2 cm Muck (A10) | (LRR B) | |
| Histic Black | c Epipedon (A2) k Histic (A3) | | Strippe Loamy | d Matrix (S6) Mucky Mineral (F | , | 2 cm Muck (A10) Reduced Vertic (F | (LRR B) 18) | |
| Histic Black Hydro | c Epipedon (A2) (Histic (A3) ogen Sulfide (A4) | C) | Strippe Loamy Loamy | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F | , | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater | (LRR B) 18) ial (TF2) | |
| Histic Black Hydro Strati | c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR | C) | Strippe Loamy Loamy Deplete | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F ed Matrix (F3) | <u>2</u>) | 2 cm Muck (A10) Reduced Vertic (F | (LRR B) 18) ial (TF2) | |
| Histic Black Hydro Strati 1 cm | c Epipedon (A2) K Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) | , | Strippe Loamy Loamy Deplete Redox | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3 ed Matrix (F3) Dark Surface (F6) | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater | (LRR B) 18) ial (TF2) | |
| Histic Black Hydro Strati 1 cm Deple | c Epipedon (A2) K Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac | , | Strippe Loamy Loamy Deplete Redox Deplete | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3 ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in F | (LRR B) 18) ial (TF2) Remarks) | |
| Histic Black Hydro Strati 1 cm Deple | c Epipedon (A2) K Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) | , | Strippe Loamy Deplete Redox Redox | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3 ed Matrix (F3) Dark Surface (F6) | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in F | (LRR B) 18) ial (TF2) Remarks) hydrophytic vegeta | |
| Histic Black Hydro Strati 1 cm Deple Thick Sand | c Epipedon (A2) (Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac (Dark Surface (A12) | , | Strippe Loamy Deplete Redox Redox | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F Depressions (F8) | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in F | (LRR B) 18) ial (TF2) Remarks) | esent, |
| Histic Black Hydro Strati 1 cm Deple Thick Sand Sand | c Epipedon (A2) (A Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (A12) Iy Mucky Mineral (S1) | , | Strippe Loamy Deplete Redox Redox | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F Depressions (F8) | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in F | (LRR B) (18) ial (TF2) Remarks) hydrophytic vegeta drology must be pre | esent, |
| Histic Black Hydro Strati 1 cm Deple Thick Sand Sand | c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface k Dark Surface (A12) ly Mucky Mineral (S1) ly Gleyed Matrix (S4) | , | Strippe Loamy Deplete Redox Redox | d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F Depressions (F8) | 2) | 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in F | (LRR B) (18) ial (TF2) Remarks) hydrophytic vegeta drology must be pre | esent, |

| HYDROLOGY | | | | | |
|---|---|--|--|--|--|
| Wetland Hydrology Indicators: | | | | | |
| Primary Indicators (minimum of one required; check | Secondary Indicators (2 or more required) | | | | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) | | | |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) | | | |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living F | Roots (C3) Dry-Season Water Table (C2) | | | |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) | | | |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils | (C6) Saturation Visible on Aerial Imagery (C9) | | | |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes No | Depth (inches): | | | | |
| Water Table Present? Yes <u>No x</u> | Depth (inches): | | | | |
| Saturation Present? Yes <u>No x</u> | Depth (inches): | Wetland Hydrology Present? Yes <u>No X</u> | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, monitoring we | ell, aerial photos, previous inspections) |), if available: | | | |
| Remarks: | | | | | |
| Relians. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Project/Site: | Stone Be | etland | | | City/County: | Sacramento | County | ' | | Sampling Da | te: | 12/22/20 |
|---------------------|--------------|---------------|----------------------|--------------|----------------|--------------|---------|----------------------|-----------|--------------------|--------------|----------|
| Applicant/Owner: | Taylor Bu | uilders, LLC | ; | | | | | State: CA | | Sampling Poi | nt: | 2 |
| Investigator(s): | Matt Hirk | ala | | | Section | , Township, | Range: | Section 28 | , Townsh | nip 7 North, Ran | ge 7 East, | MDB&M |
| Landform (hillslop | e, terrace | , etc.): | terrace | | Local rel | ief (concave | , conve | k, none): <u>cor</u> | ncave | | Slope (%): | <1 |
| Subregion (LRR): | Mediterra | anean Calif | ornia (LRR C) | Lat: | | 38.4 | 465986 | Long: | | -121.472752 | Datum: | NAD83 |
| Soil Map Unit Nan | ne: <u>G</u> | alt clay, 0 t | o 4% slopes, MLR | A 17 (153) | | | | NWI Classif | ication: | N/A | | |
| Are climatic / hydr | ologic cor | nditions on | the site typical for | this time of | year? | Yes | х | No | | (If no, explain in | Remarks. |) |
| Are Vegetation | , | Soil | , or Hydrology | | significantly | disturbed? | Are "I | Normal Circu | Imstance | es" present? | ′es <u>x</u> | No |
| Are Vegetation | , | Soil | , or Hydrology | | naturally prol | blematic? | (If nee | eded, explain | n any ans | wers in Remark | (s.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | NoNo No | x x x | Is the Sampled Area within a Wetland? | Yes | No <u>x</u> |
|---|-------------------|------------|-------------|--|-----|-------------|
| Remarks: | | | | | | |

| Tree Stratum (Plot size:) | % Cover | Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species |
|------------------------------------|------------|--------------|---------------------|--|
| | | | | That Are OBL, FACW, or FAC: 1 (A) |
| 2 | | | | Total Number of Dominant |
| 3 | | · · | | Species Across All Strata: <u>3</u> (B) |
| ł | | | | Percent of Dominant Species |
| | 0 | =Total Cover | | That Are OBL, FACW, or FAC:(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| l | | | | Total % Cover of: Multiply by: |
| <u>.</u> | | · | | OBL species 0 x1 = 0 |
| j | | - <u> </u> | | FACW species 0 x2 = 0 |
| ł | | <u> </u> | | FAC species 20 x3 = 60 |
| 5 | | <u> </u> | | FACU species <u>31</u> x4 = <u>124</u> |
| | 0 | =Total Cover | | UPL species <u>50</u> x5 = <u>250</u> |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals: 101 (A) 434 (B) |
| . <u>Avena fatua</u> | 50 | Х | UPL | Prevalence Index = B/A = 4.3 |
| 2. <u>Bromus hordeaceus</u> | 30 | Х | FACU | |
| 3. <u>Lolium perenne</u> | 20 | Х | FAC | Hydrophytic Vegetation Indicators: |
| Lactuca serriola | 1 | · | FACU | Dominance Test is >50% |
| 5. Holocarpha virgata | Т | | UPL | Prevalence Index is ≤3.0 ¹ |
|) | | · | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| · | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| ·· | 101 | =Total Cover | | |
| Woody Vine Stratum (Plot size:) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| I, | | | | be present, unless disturbed or problematic. |
| 2 | | <u> </u> | | Hydrophytic |
| | 0 | =Total Cover | | Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes No X |

| SOIL | |
|------|--|
|------|--|

| SOIL | | | | | | Sam | oling Point: | | 2 | |
|---|-----------------------------|-------------------|--------------------|------------------|---------------------------------|--|--|------|---|--|
| Profile De | scription: (Describe | to the de | pth needed to do | cument the ind | icator or co | onfirm the absence of ind | icators.) | | | |
| Depth | Matrix Redox Features | | | | _ | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % Туре | e ¹ Loc ² | Texture | Rema | rks | | |
| 1-13 | 10YR3/1 | 100 | | | | clay | | | | |
| | | · | | | | | | | | |
| | | · | | | | | | | | |
| | | | | | _ | | | | | |
| | · | · | | <u> </u> | | | | | | |
| | | · | | | | | | | | |
| ¹ Type: C=C | Concentration, D=Depletic | on, RM=Re | duced Matrix, CS=C | overed or Coated | Sand Grains | s. ² Location: PL=Pore Lining | , M=Matrix. | | | |
| Hydric So | il Indicators: (Application | able to al | I LRRs, unless of | herwise noted. |) | Indicators for Problem | atic Hydric Soils | 3. | | |
| Histo | sol (A1) | | Sandy I | Redox (S5) | | 1 cm Muck (A9) (L | .RR C) | | | |
| Histic | : Epipedon (A2) | | Strippe | d Matrix (S6) | | 2 cm Muck (A10) | LRR B) | | | |
| Black | (A3) | | Loamy | Mucky Mineral (| F1) | Reduced Vertic (F | 18) | | | |
| Hydro | ogen Sulfide (A4) | | Loamy | Gleyed Matrix (| F2) | Red Parent Mater | al (TF2) | | | |
| Strati | fied Layers (A5) (LRR | C) | Deplete | d Matrix (F3) | | Other (Explain in Remarks) | | | | |
| | Muck (A9) (LRR D) | | Redox | Dark Surface (F | 5) | | | | | |
| | eted Below Dark Surfac | ce (A11) | | d Dark Surface | , | | | | | |
| · | Dark Surface (A12) | x <i>y</i> | | Depressions (F8 | | 3 | | | | |
| | y Mucky Mineral (S1) | | | Pools (F9) | , | | hydrophytic vegeta drology must be pr | | | |
| Sandy Mucky Milleral (ST) Vernal Pools (F9) | | | | | | | sturbed or problem | | | |
| Restrictiv | e Layer (if present): | | | | | | | | | |
| | | | | | | | | | | |
| Туре: | | | | | н | vdric Soil Present? | Yes | No 3 | x | |
| Type: Depth (inc | hes): | | | | · · | | | | | |

| HYDROLOGY | | |
|--|--|---|
| Wetland Hydrology Indicators: | | |
| Primary Indicators (minimum of one required; che | Secondary Indicators (2 or more required) | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living Roo | ots (C3) Dry-Season Water Table (C2) |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils (C6 | Saturation Visible on Aerial Imagery (C9) |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes No | x Depth (inches): | |
| Water Table Present? Yes No | x Depth (inches): | |
| Saturation Present? Yes No | x Depth (inches): We | etland Hydrology Present? Yes <u>No X</u> |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, monitoring | g well, aerial photos, previous inspections), if | available: |
| Remarks: | | |
| | | |
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| Project/Site: | Stone Beetland | | C | ity/County: | Sacrament | o County | / | Sampling Da | ate: | 12/22/20 |
|---------------------|----------------------|-----------------------------|-------------|--------------|----------------|----------|--------------------------|---------------------|-------------|----------|
| Applicant/Owner: | Taylor Builders, I | LLC | | | | | State: CA | Sampling Po | oint: | 3 |
| Investigator(s): | Matt Hirkala | | | Sectior | n, Township, | Range: | Section 28, Tov | wnship 7 North, Rai | nge 7 East, | MDB&M |
| Landform (hillslop | e, terrace, etc.): | abandoned ditch | | Local re | lief (concave | e, conve | k, none): <u>concave</u> | e | Slope (%): | <1 |
| Subregion (LRR): | Mediterranean C | alifornia (LRR C) | Lat: | | 3 | 8.46498 | Long: | -121.471424 | Datum: | NAD83 |
| Soil Map Unit Nam | ne: <u>Clear Lak</u> | e clay, partially drained | , 0-2% slop | es, frequer | ntly flooded (| (114) | NWI Classification | on: <u>N/A</u> | | |
| Are climatic / hydr | ologic conditions | on the site typical for thi | s time of y | ear? | Yes | х | No | (If no, explain i | n Remarks. |) |
| Are Vegetation | , Soil | , or Hydrology | | ignificantly | disturbed? | Are "I | Normal Circumsta | ances" present? | Yes x | No |
| Are Vegetation | , Soil | , or Hydrology | r | aturally pro | blematic? | (If nee | eded, explain any | answers in Remar | ks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | x | No No No | x x | Is the Sampled Area within a Wetland? | Yes | No <u>x</u> | |
|---|-------------------|---|----------------|--------|---------------------------------------|---------------------|------------------------------------|--|
| Remarks: This data point was taken present along with shelving and the o | | | | | 0 0 | ent deposits were r | noted; however, a bed and bank was | |

| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|------------------------------------|----------|--------------|-----------|---|
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC:(A) |
| 2. | | | | Total Number of Dominant |
| 3. | | | | Species Across All Strata: 1 (B) |
| 4 | | | | Percent of Dominant Species |
| | 0 | =Total Cover | | That Are OBL, FACW, or FAC: 100% (A/B) |
| | | | | |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | - | · | | Total % Cover of: Multiply by: |
| 2 | | | | OBL species x1 =0 |
| 3 | | | | FACW species 0 x2 = 0 |
| 4 | | | | FAC species 10 x3 = 30 |
| 5 | | | | FACU species 0 x4 = 0 |
| | 0 | =Total Cover | | UPL species x5 =0 |
| Herb Stratum (Plot size: 1'x4') | | | | Column Totals:(A)(B) |
| 1. Lolium perenne | 10 | Х | FAC | Prevalence Index = B/A = 3.0 |
| 2. | | | | |
| 3 | | | | Hydrophytic Vegetation Indicators: |
| 4. | | | | X Dominance Test is >50% |
| 5. | | | | X Prevalence Index is ≤3.0 ¹ |
| 6. | | | | Morphological Adaptationd ¹ (Provide supporting |
| 7. | | | | data in Remarks or on a separate sheet) |
| 8. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 10 | =Total Cover | | |
| Woody Vine Stratum (Plot size:) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1 | | | | be present, unless disturbed or problematic. |
| 2 | | · | | |
| ۲ | 0 | =Total Cover | | Hydrophytic |
| % Bare Ground in Herb Stratum 90 | | Biotic Crust | 0 | Vegetation Present? Yes X No |
| Remarks: | | | 0 | |

| Depth | Matrix | | Re | dox Features | | | | | |
|--|---|-------------|-------------------------------|---|------------------|---|--|-----------|--|
| inches) | Color (moist) | % | Color (moist) | % Type ¹ | Loc ² | Texture | Rema | rks | |
|)-10 | 10YR3/2 | 100 | | | | clay | | | |
| | | | | | | | | | |
| | | · | | | | | | | |
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| | | | | | | · | | | |
| - | | | | | | · · | | | |
| - | | | | | | | | | |
| Type: C=0 | Concentration, D=Depletic | on, RM=Ree | duced Matrix, CS=C | overed or Coated Sa | nd Grains. | ² Location: PL=Pore Lining | , M=Matrix. | | |
| ydric So | il Indicators: (Application | able to all | LRRs, unless ot | herwise noted.) | | Indicators for Problem | natic Hydric Soils | 3. | |
| Histosol (A1) Sandy Redox (S5) | | | | | | 1 cm Muck (A9) (LRR C) | | | |
| Histi | c Epipedon (A2) | | Stripped | l Matrix (S6) | | 2 cm Muck (A10) (LRR B) | | | |
| Blac | k Histic (A3) | | Loamy I | Mucky Mineral (F1) | | Reduced Vertic (F18) | | | |
| | ogen Sulfide (A4) | | Loamy (| Gleyed Matrix (F2) | | Red Parent Material (TF2) | | | |
| Hydr | 0 () | | | | | Other (Explain in Remarks) | | | |
| | ified Layers (A5) (LRR | C) | Deplete | d Matrix (F3) | | Other (Explain in F | Remarks) | | |
| Strat | • | C) | · | d Matrix (F3) Dark Surface (F6) | | Other (Explain in F | Remarks) | | |
| Strat | ified Layers (A5) (LRR | | Redox [| () | ·) | Other (Explain in F | Remarks) | | |
| Strat 1 cm Depl | ified Layers (A5) (LRR Muck (A9) (LRR D) | | Redox I Deplete | Dark Surface (F6) | <i>.</i>) | | , | ation and | |
| Strat 1 cm Depl Thicl | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac | | Redox [Deplete Redox [| Dark Surface (F6) d Dark Surface (F7 | ') | ³ Indicators of | Remarks) hydrophytic vegeta drology must be pr | | |
| Strat 1 cm Depl Thicl Sanc | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac (Dark Surface (A12) | | Redox [Deplete Redox [| Dark Surface (F6) d Dark Surface (F7 Depressions (F8) | ') | ³ Indicators of wetland hyd | hydrophytic vegeta | resent, | |
| Strat 1 cm Depl Thicl Sanc | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (ADark Surface (A12) dy Mucky Mineral (S1) | | Redox [Deplete Redox [| Dark Surface (F6) d Dark Surface (F7 Depressions (F8) | ') | ³ Indicators of wetland hyd | hydrophytic vegeta drology must be pr | resent, | |
| Strat 1 cm Depl Thicl Sanc | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) | | Redox [Deplete Redox [| Dark Surface (F6) d Dark Surface (F7 Depressions (F8) | ') | ³ Indicators of wetland hyd | hydrophytic vegeta drology must be pr | resent, | |

| HIDROLOGI | | | | | | | |
|------------------------------|------------------|--------------|--|---|---|--|--|
| Wetland Hydrology Indica | ators: | | | | | | |
| Primary Indicators (minimu | m of one requ | ired; chec | k all that apply) | Se | condary Indicators (2 or more required) | | |
| Surface Water (A1) | | | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | |
| High Water Table (A2 | <u>?)</u> | | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | |
| Saturation (A3) | | | Drift Deposits (B3) (Riverine) | | | | |
| Water Marks (B1) (No | onriverine) | | Drainage Patterns (B10) | | | | |
| Sediment Deposits (B | 32) (Nonriveri | ne) | Roots (C3) Dry-Season Water Table (C2) | | | | |
| Drift Deposits (B3) (N | onriverine) | | Crayfish Burrows (C8) | | | | |
| Surface Soil Cracks (| B6) | | s (C6) | Saturation Visible on Aerial Imagery (C9) | | | |
| Inundation Visible on | Aerial Imager | y (B7) | | Shallow Aquitard (D3) | | | |
| Water-Stained Leave | s (B9) | | | FAC-Neutral Test (D5) | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? | Yes | No 🔿 | x Depth (inches): | | | | |
| Water Table Present? | Yes | No > | x Depth (inches): | | | | |
| Saturation Present? | Yes | No x | x Depth (inches): | Wetland Hydro | ology Present? Yes No X | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stre | eam gauge, m | ionitoring v | well, aerial photos, previous inspection | is), if available: | | | |
| Remarks: No sediment depos | oito or olgol m | otting obo | anyod | | | | |
| itemarks. No sediment depos | sits of algarith | atting obse | sived. | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

| Project/Site: | Stone Beet | land | C | ity/County: | Sacramento | County | | Sampling D | ate: | 12/22/20 |
|---------------------|-----------------|----------------------------|---------------------|--------------|-----------------|---------|----------------------|----------------------|-------------|----------|
| Applicant/Owner: | Taylor Build | lers, LLC | | | | | State: CA | Sampling P | oint: | 4 |
| Investigator(s): | Matt Hirkala | a | | Sectior | n, Township, I | Range: | Section 28, | Township 7 North, Ra | nge 7 East, | MDB&M |
| Landform (hillslop | e, terrace, e | tc.): topographic of | depression | Local re | lief (concave, | convex | , none): <u>conc</u> | ave | Slope (%): | <1 |
| Subregion (LRR): | Mediterrane | ean California (LRR C) | Lat: | | 38.4 | 168848 | Long: | -121.464193 | Datum: | NAD83 |
| Soil Map Unit Nan | ne: <u>Clea</u> | ar Lake clay, partially di | rained, 0-2% slop | es, frequer | ntly flooded (1 | 14) | NWI Classific | ation: <u>N/A</u> | | |
| Are climatic / hydr | ologic condi | tions on the site typical | for this time of ye | ear? | Yes | х | No | (If no, explain | in Remarks. |) |
| Are Vegetation | , So | il, or Hydrolog | ys | ignificantly | disturbed? | Are "I | Normal Circun | nstances" present? | Yes x | No |
| Are Vegetation | , So | il, or Hydrolog | y n | aturally pro | blematic? | (If nee | eded, explain a | any answers in Rema | rks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes _ Yes _ Yes _ | x | No No No | x x | Is the Sampled Area within a Wetland? | Yes | No | |
|---|-------------------------|---|----------------|--------|--|-----|----|--|
| Remarks: | | | | | | | | |

| <u>Tree Stratum</u> (Plot size:) 1 | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) |
|---|---------------------|----------------------|---------------------|--|
| 23 | | | | Total Number of Dominant Species Across All Strata: 3 (B) |
| 4 | 0 | =Total Cover | | Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | . <u> </u> | | Total % Cover of: Multiply by: |
| 2 | | | | OBL species 0 x1 = 0 |
| 3 | | | | FACW species 0 x2 = 0 |
| 4 | | | | FAC species 25 x3 = 75 |
| 5 | | | | FACU species 25 x4 = 100 |
| | 0 | =Total Cover | - | UPL species $60 \times 5 = 300$ |
| Herb Stratum (Plot size: 4'x4') | 45 | | וסוו | Column Totals: <u>110</u> (A) <u>475</u> (B) |
| 1. Convolvulus arvensis | 45 | <u> </u> | | Prevalence Index = B/A =4.3 |
| 2. Lolium perenne | <u>20</u> 20 | <u> </u> | FAC | |
| 3. Bromus hordeaceus | | <u> </u> | FACU UPL | Hydrophytic Vegetation Indicators: |
| 4. Avena fatua 5. Briza minor | <u>15</u> 5 | | | Dominance Test is >50% |
| | 5 | | FAC FACU | Prevalence Index is ≤3.0 ¹ |
| 6. <i>Lactuca serriola</i> | 5 | | FACU | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 8. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 110 | =Total Cover | - | |
| <u>Woody Vine Stratum</u> (Plot size:) 1. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | | | Hydrophytic |
| | 0 | =Total Cover | - | Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes No X |

| SOIL | |
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| Depth | Matrix | | Re | edox Featu | ures | | | | | |
|---|--|------------|--|--|--|------------------|---|---|----|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 1-8 | 10YR3/2 | 100 | | | | | see remarks | compacted gravelly clay loan | n | |
| | | | | | | | | | | |
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| <u> </u> | | | | | <u> </u> | 10 · | 2 | | | |
| Type: C= | Concentration, D=Depletic | n, RM=Re | duced Matrix, CS=C | overed or (| Coated Sar | d Grains. | Location: PL=Pore | e Lining, M=Matrix. | | |
| lydric So | oil Indicators: (Applic | able to al | I LRRs, unless of | therwise i | noted.) | | Indicators for P | roblematic Hydric Soils ³ : | | |
| Hist | osol (A1) | | Sandy I | Redox (S5 | 5) | | 1 cm Muck (A9) (LRR C) | | | |
| Hist | ic Epipedon (A2) | | Strippe | d Matrix (S | S6) | | 2 cm Muck (A10) (LRR B) | | | |
| Blac | ck Histic (A3) | | Loamy | Mucky Mir | neral (F1) | | Reduced Vertic (F18) | | | |
| | | | Loomy | ~ | ataly (EQ) | | Red Parent Material (TF2) | | | |
| Hyd | rogen Sulfide (A4) | | Loaniy | Gleyed Ma | atrix (FZ) | | Red Parent | Material (TF2) | | |
| | rogen Sulfide (A4) tified Layers (A5) (LRR | C) | | ed Matrix (| . , | | | Material (TF2) ain in Remarks) | | |
| Stra | • | C) | Deplete | • | (F3) | | | | | |
| Stra 1 cm | tified Layers (A5) (LRR | | Deplete Redox I | ed Matrix (Dark Surfa | (F3) | | | | | |
| Stra 1 cn Dep | tified Layers (A5) (LRR n Muck (A9) (LRR D) | | Deplete Redox I Deplete | ed Matrix (Dark Surfa | (F3) ace (F6) urface (F7) | | Other (Expl | ain in Remarks) | nd | |
| Stra 1 cm Dep Thic | tified Layers (A5) (LRR n Muck (A9) (LRR D) leted Below Dark Surfac | | Deplete Redox I Deplete Redox I | ed Matrix (Dark Surfa ed Dark Su | F3) ace (F6) urface (F7) ons (F8) | | Other (Expl. | ain in Remarks) ors of hydrophytic vegetation a | | |
| Stra 1 cm Dep Thic San | tified Layers (A5) (LRR n Muck (A9) (LRR D) deted Below Dark Surfac ck Dark Surface (A12) | | Deplete Redox I Deplete Redox I | ed Matrix (Dark Surfa ed Dark Su Depressio | F3) ace (F6) urface (F7) ons (F8) | | Other (Expl. ³ Indicat wetla | ain in Remarks) | | |
| Stra 1 cm Dep Thic San San | tified Layers (A5) (LRR n Muck (A9) (LRR D) leted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) | | Deplete Redox I Deplete Redox I | ed Matrix (Dark Surfa ed Dark Su Depressio | F3) ace (F6) urface (F7) ons (F8) | · | Other (Expl. ³ Indicat wetla | ain in Remarks) ors of hydrophytic vegetation a and hydrology must be present, | | |
| Stra 1 cm Dep Thic San San | tified Layers (A5) (LRR n Muck (A9) (LRR D) leted Below Dark Surfac ck Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) | | Deplete Redox I Deplete Redox I | ed Matrix (Dark Surfa ed Dark Su Depressio | F3) ace (F6) urface (F7) ons (F8) | , | Other (Expl. ³ Indicat wetla | ain in Remarks) ors of hydrophytic vegetation a and hydrology must be present, | | |
| Stra 1 cm Dep Thic San San | tified Layers (A5) (LRR n Muck (A9) (LRR D) eleted Below Dark Surface ck Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) ve Layer (if present): | | Deplete Redox I Deplete Redox I | ed Matrix (Dark Surfa ed Dark Su Depressio | F3) ace (F6) urface (F7) ons (F8) | | Other (Expl. ³ Indicat wetla | ain in Remarks) ors of hydrophytic vegetation a and hydrology must be present, ess disturbed or problematic. | | |

| HYDROLOGY | | | | | | |
|--|--|--|--|--|--|--|
| Wetland Hydrology Indicators: | | | | | | |
| Primary Indicators (minimum of one required; | check all that apply) | Secondary Indicators (2 or more required) | | | | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | | |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | | |
| Saturation (A3) | Aquatic Invertebrates (B13) | B13) Drift Deposits (B3) (Riverine) | | | | |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) | | | | |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living | ng Roots (C3) Dry-Season Water Table (C2) | | | | |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) | | | | |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils | (C6) Saturation Visible on Aerial Imagery (C9) | | | | |
| Inundation Visible on Aerial Imagery (B7 | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes No | x Depth (inches): | | | | | |
| Water Table Present? Yes No | x Depth (inches): | | | | | |
| Saturation Present? Yes No | x Depth (inches): | Wetland Hydrology Present? Yes No X | | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream gauge, monito | ring well, aerial photos, previous inspections | s), if available: | | | | |
| Remarks: | | | | | | |
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| Project/Site: | Stone Bee | etland | | | City/County: | Sacramento | o County | / | | Sampling Da | ate: | 12/22/20 |
|---------------------|----------------|------------|-------------------------|-------------|---------------|---------------|----------|----------------------|-----------|-------------------|--------------|----------|
| Applicant/Owner: | Taylor Bui | lders, LLC | : | | | | | State: CA | | Sampling Po | oint: | 5 |
| Investigator(s): | Matt Hirka | ıla | | | Section | i, Township, | Range: | Section 28 | , Townsl | hip 7 North, Rai | nge 7 East, | MDB&M |
| Landform (hillslop | e, terrace, | etc.): | low terrace | | Local re | lief (concave | , conve | k, none): <u>cor</u> | ncave | | Slope (%): | <1 |
| Subregion (LRR): | Mediterrar | nean Calif | ornia (LRR C) | Lat: | | 38. | 466996 | Long: | | -121.465337 | Datum: | NAD83 |
| Soil Map Unit Nam | ne: <u>Cle</u> | ear Lake c | lay, partially drained | l, 0-2% slo | opes, frequer | tly flooded (| 114) | NWI Classif | ication: | N/A | | |
| Are climatic / hydr | ologic cond | ditions on | the site typical for th | is time of | year? | Yes_ | х | No | | (If no, explain i | n Remarks. |) |
| Are Vegetation | , S | oil | , or Hydrology | | significantly | disturbed? | Are "I | Normal Circu | umstance | es" present? | Yes <u>x</u> | No |
| Are Vegetation | , S | oil | , or Hydrology | | naturally pro | blematic? | (If nee | eded, explair | n any ans | swers in Remar | ks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | NoNO_NO | x x x | Is the Sampled Area within a Wetland? | Yes | No <u>x</u> |
|---|-------------------|---|-------------|---------------------------------------|-----|-------------|
| Remarks: | | | | | | |

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: |
|---|---------------------|----------------------|---------------------|--|
| 1 | | | | $\frac{0}{\mathbf{A}}$ |
| 2 3 | | - <u> </u> | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 4 | 0 | =Total Cover | r | Percent of Dominant Species That Are OBL, FACW, or FAC:0%(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | | | Total % Cover of: Multiply by: |
| 2 | | | | OBL species x1 = 0 |
| 3 | | | | FACW species x2 =0 |
| 4 | | | | FAC species 0 x3 = 0 |
| 5 | | | | FACU species 50 x4 = 200 |
| | 0 | =Total Cover | • | UPL species 20 x5 = 100 |
| <u>Herb Stratum</u> (Plot size: 4'x4') | | | | Column Totals: 70 (A) 300 (B) |
| 1. Malvella leprosa | 45 | Х | FACU | Prevalence Index = B/A = 4.3 |
| 2. Avena fatua | 20 | Х | UPL | |
| 3. Lactuca serriola | 5 | | FACU | Hydrophytic Vegetation Indicators: |
| 4 | | | | Dominance Test is >50% |
| 5 | | | | Prevalence Index is ≤3.0 ¹ |
| 6 7 | | | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 8. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 70 | =Total Cover | r | |
| Woody Vine Stratum (Plot size:) 1 | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | =Total Cover | r | Hydrophytic Vegetation |
| % Bare Ground in Herb Stratum 35 | % Cover of | Diatia Cruch | 0 | Present? Yes X No |

| SOIL |
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| Depth | Matrix | | Redox Features | | | | | | | | |
|---------------------------------------|--|-------------|--------------------|-----------------------------|------------------|------------------|--|---|---------|--|--|
| inches) | Color (moist) | % | Color (moist) | % 1 | ype ¹ | Loc ² | Texture | Rema | rks | | |
| -14 | 10YR3/1 | 100 | | | | | clay | | | | |
| | | | | | | | | | | | |
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| | | | | | | | <u> </u> | | | | |
| ype: C=0 | Concentration, D=Depletic | n, RM=Red | uced Matrix, CS=C | overed or Coa | ated Sand | Grains. | ² Location: PL=Pore Lining, | M=Matrix. | | | |
| /dric So | il Indicators: (Applic | able to all | LRRs, unless ot | herwise not | ed.) | | Indicators for Problem | atic Hydric Soils | 3. | | |
| Histo | osol (A1) | | Sandy F | Redox (S5) | | | 1 cm Muck (A9) (L | RR C) | | | |
| Histic | c Epipedon (A2) | | Stripped | d Matrix (S6) | | | 2 cm Muck (A10) (LRR B) | | | | |
| Black | k Histic (A3) | | Loamy I | Mucky Miner | al (F1) | | Reduced Vertic (F | 18) | | | |
| Hydr | ogen Sulfide (A4) | | Loamy | Gleyed Matri | x (F2) | | Red Parent Materi | al (TF2) | | | |
| _ | ified Layers (A5) (LRR | C) | | d Matrix (F3 | . , | | Other (Explain in Remarks) | | | | |
| Strat | | , | · | Dark Surface | | | | , | | | |
| | Muck (A9) (LRR D) | | | | | | | | | | |
| 1 cm | Muck (A9) (LRR D) eted Below Dark Surfac | ж (А11) | | | · · / | | | | | | |
| 1 cm Depl | eted Below Dark Surfac | ce (A11) | Deplete | d Dark Surfa | ice (F7) | | 3 | | | | |
| 1 cm Depl Thicl | eted Below Dark Surfac A Dark Surface (A12) | ce (A11) | Deplete Redox [| d Dark Surfa Depressions | ice (F7) | | | nydrophytic vegeta | | | |
| 1 cm Depl Thick Sanc | eted Below Dark Surfac < Dark Surface (A12) dy Mucky Mineral (S1) | ce (A11) | Deplete Redox [| d Dark Surfa | ice (F7) | | wetland hyd | nydrophytic vegeta Irology must be pr turbed or problem | resent, | | |
| 1 cm Depl Thick Sanc Sanc | eted Below Dark Surfac A Dark Surface (A12) | ce (A11) | Deplete Redox [| d Dark Surfa Depressions | ice (F7) | | wetland hyd | Irology must be pr | resent, | | |
| 1 cm Depl Thick Sanc Sanc | eted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) | ce (A11) | Deplete Redox [| d Dark Surfa Depressions | ice (F7) | | wetland hyd | Irology must be pr | resent, | | |

| HIDROLOGI | | | | | | | |
|---|--|--|--|--|--|--|--|
| Wetland Hydrology Indicators: | | | | | | | |
| Primary Indicators (minimum of one required; of | Primary Indicators (minimum of one required; check all that apply) | | | | | | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | | | |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | | | |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) | | | | | |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) | | | | | |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living | Roots (C3) Dry-Season Water Table (C2) | | | | | |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) | | | | | |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils | (C6) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | | |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes No | x Depth (inches): | | | | | | |
| Water Table Present? Yes No | x Depth (inches): | | | | | | |
| Saturation Present? Yes No | x Depth (inches): | Wetland Hydrology Present? Yes No X | | | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream gauge, monitor | ing well, aerial photos, previous inspections | s), if available: | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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| Project/Site: | Stone Beetla | nd | Cit | y/County: | Sacramento | County | , | Sampling Da | ite: | 12/22/20 |
|---------------------|------------------|--------------------------------|----------------|-------------|-----------------|---------|-----------------------|---------------------|--------------|----------|
| Applicant/Owner: | Taylor Builde | rs, LLC | | | | | State: CA | Sampling Po | int: | 6 |
| Investigator(s): | Matt Hirkala | | | Section | n, Township, | Range: | Section 28, To | wnship 7 North, Rar | nge 7 East, | MDB&M |
| Landform (hillslop | e, terrace, etc | .): <u>terrace</u> | | Local re | lief (concave | , conve | k, none): <u>none</u> | | Slope (%): | <1 |
| Subregion (LRR): | Mediterranea | n California (LRR C) | Lat: | | 38.4 | 466372 | Long: | -121.467599 | Datum: | NAD83 |
| Soil Map Unit Nam | ne: <u>Clear</u> | Lake clay, partially drained | , 0-2% slope | s, frequer | ntly flooded (1 | 114) | NWI Classificati | on: <u>N/A</u> | | |
| Are climatic / hydr | ologic conditio | ons on the site typical for th | is time of yea | ar? | Yes | х | No | (If no, explain ir | n Remarks. |) |
| Are Vegetation | , Soil | , or Hydrology | sig | gnificantly | disturbed? | Are "I | Normal Circums | tances" present? | Yes <u>x</u> | No |
| Are Vegetation | , Soil | , or Hydrology | na | turally pro | blematic? | (If nee | eded, explain an | y answers in Remar | ks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | No No No | x x x | Is the Sampled Area within a Wetland? | Yes | No <u>x</u> |
|---|-------------------|----------------|-------------|---------------------------------------|-----|-------------|
| Remarks: | | | | | | |

| Tree Stratum (Plot size:) | Absolute % Cover | | Indicator Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: |
|--|---------------------|--------------|---------------------|--|
| 1 | | . <u> </u> | | 111at Ale OBL, FACW, OF FAC. 0 (A) |
| 2 3 | | · | | Total Number of Dominant Species Across All Strata: <u>1</u> (B) |
| 4 | 0 | =Total Cover | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | | | Total % Cover of: Multiply by: |
| 2 | | · | | OBL species 0 x1 = 0 |
| 3 | | | | FACW species 0 x2 = 0 |
| 4 | | | | FAC species 0 x3 = 0 |
| 5. | | | | FACU species 5 x4 = 20 |
| | 0 | =Total Cover | | UPL species 95 x5 = 475 |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals: 100 (A) 495 (B) |
| 1. Centaurea solstitialis | 95 | х | UPL | Prevalence Index = B/A = 5.0 |
| 2. Bromus hordeaceus | 5 | | FACU | |
| 3. | | | | Hydrophytic Vegetation Indicators: |
| 4. | | | | Dominance Test is >50% |
| 5. | | | | Prevalence Index is ≤3.0 ¹ |
| 6 | | · | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 7 8. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 0 | 100 | =Total Cover | | |
| <u>Woody Vine Stratum</u> (Plot size:) 1 | 100 | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | 0 | =Total Cover | | Hydrophytic Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes No X |
| Remarks: | | | | |

| SOIL |
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| Depth | Matrix | <u> </u> | Re | dox Features | | | | | | |
|---------------------------------------|--|-------------|--------------------|-----------------------------------|------------------|---------------------------------------|--|--------|--|--|
| inches) | Color (moist) | % | Color (moist) | % Туре | Loc ² | Texture | Remar | ks | | |
| -14 | 10YR3/2 | 100 | | | | clay | | | | |
| | | <u> </u> | | | | . <u> </u> | | | | |
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| | | <u> </u> | | | | 2 | | | | |
| ype: C=0 | Concentration, D=Depletic | n, RM=Red | luced Matrix, CS=C | overed or Coated | Sand Grains. | ² Location: PL=Pore Lining | M=Matrix. | | | |
| ydric So | oil Indicators: (Application) | able to all | LRRs, unless ot | herwise noted. | | Indicators for Problem | atic Hydric Soils ³ | : | | |
| Histo | osol (A1) | | Sandy F | Redox (S5) | | 1 cm Muck (A9) (L | RR C) | | | |
| Histi | c Epipedon (A2) | | Stripped | d Matrix (S6) | | 2 cm Muck (A10) (LRR B) | | | | |
| Blac | k Histic (A3) | | Loamy Loamy | Mucky Mineral (I | -1) | Reduced Vertic (F | 18) | | | |
| Hydr | ogen Sulfide (A4) | | Loamy | Gleyed Matrix (I | -2) | Red Parent Materi | al (TF2) | | | |
| | | | Deplete | d Matrix (F3) | | Other (Explain in Remarks) | | | | |
| Strat | | ' | Deday/ [| Dark Surface (F6 | 2 | | , | | | |
| | Muck (A9) (LRR D) | | Redox L | Jaik Suilace (i C | , | | | | | |
| 1 cm | ı Muck (A9) (LRR D) eted Below Dark Surfac | ж (А11) | | , | , | | | | | |
| 1 cm Depl | eted Below Dark Surfac | ж (А11) | Deplete | d Dark Surface | (F7) | 3 | | | | |
| 1 cm Depl Thicl | eted Below Dark Surfac k Dark Surface (A12) | ce (A11) | Deplete Redox I | d Dark Surface Depressions (F8 | (F7) | | hydrophytic vegeta | | | |
| 1 cm Depl Thicl Sand | eted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) | ж (А11) | Deplete Redox I | d Dark Surface | (F7) | wetland hyd | hydrophytic vegeta Irology must be pre sturbed or problema | esent, | | |
| 1 cm Depl Thicl Sand Sand | eted Below Dark Surfac k Dark Surface (A12) | ce (A11) | Deplete Redox I | d Dark Surface Depressions (F8 | (F7) | wetland hyd | Irology must be pre | esent, | | |
| 1 cm Depl Thicl Sand Sand | eted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) | ce (A11) | Deplete Redox I | d Dark Surface Depressions (F8 | (F7) | wetland hyd | Irology must be pre | esent, | | |

| HIDROLOGI | | | | | | | |
|---|--|--|--|--|--|--|--|
| Wetland Hydrology Indicators: | | | | | | | |
| Primary Indicators (minimum of one required; of | Primary Indicators (minimum of one required; check all that apply) | | | | | | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | | | |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | | | |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) | | | | | |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) | | | | | |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living | Roots (C3) Dry-Season Water Table (C2) | | | | | |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) | | | | | |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils | (C6) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | | |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes No | x Depth (inches): | | | | | | |
| Water Table Present? Yes No | x Depth (inches): | | | | | | |
| Saturation Present? Yes No | x Depth (inches): | Wetland Hydrology Present? Yes No X | | | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream gauge, monitor | ing well, aerial photos, previous inspections | s), if available: | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
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| Project/Site: | Stone Beetland | | | City/County: | Sacramento | County | , | Sampling Da | ate: | 12/22/20 |
|---------------------|----------------------|-------------------------|---------------|-----------------|--------------|---------|--------------------------|----------------------|--------------|----------|
| Applicant/Owner: | Taylor Builders, LLO | 2 | | | | | State: CA | Sampling Po | oint: | 7 |
| Investigator(s): | Matt Hirkala | | | Section, | Township, I | Range: | Section 28, To | ownship 7 North, Rar | nge 7 East, | MDB&M |
| Landform (hillslop | e, terrace, etc.): | terrace | | Local reli | ef (concave, | convex | k, none): <u>conca</u> v | ve | Slope (%): | <1 |
| Subregion (LRR): | Mediterranean Calif | fornia (LRR C) | Lat: | | 38.4 | 464191 | Long: | -121.464025 | Datum: | NAD83 |
| Soil Map Unit Nan | ne: Egbert clay, | partially drained, 0 | to 2% slope | es (141) | | | NWI Classificat | tion: <u>N/A</u> | | |
| Are climatic / hydr | ologic conditions on | the site typical for th | his time of y | year? | Yes | х | No | (If no, explain ii | n Remarks. |) |
| Are Vegetation | , Soil | , or Hydrology | | significantly o | listurbed? | Are "N | Normal Circums | stances" present? | Yes <u>x</u> | No |
| Are Vegetation | , Soil | , or Hydrology | | naturally prob | olematic? | (If nee | eded, explain an | y answers in Remar | ks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | x x | No No No | x | Is the Sampled Area within a Wetland? | Yes | No | <u>x</u> |
|---|-------------------|--------|----------------|-----------|--|--------------------|--------|----------|
| Remarks: This data point was taken | in an inte | rmitte | nt ditch | . A bed a | nd bank and an ordinary high | water mark are pre | esent. | |

| | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| Tree Stratum (Plot size:) 1)) | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 3 | | | <u> </u> | ·(D) |
| 4 | 0 | =Total Cover | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | | | Total % Cover of: Multiply by: |
| 2 | | | | OBL species 0 x1 = 0 |
| 3 | | | | FACW species 0 x2 = 0 |
| 4 | | | | FAC species <u>1</u> x3 = <u>3</u> |
| 5 | | | | FACU species 20 x4 = 80 |
| | 0 | =Total Cover | | UPL species 0 x5 = 0 |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals: 21 (A) 83 (B) |
| 1. <u>Malvella leprosa</u> | 20 | Х | FACU | Prevalence Index = B/A = 4.0 |
| 2. Asclepias fascicularis | 1 | | FAC | |
| 3 | | | | Hydrophytic Vegetation Indicators: |
| 4 | | | | Dominance Test is >50% |
| 5 | | | | Prevalence Index is ≤3.0 ¹ |
| 6 | | | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 8. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 21 | =Total Cover | | |
| <u>Woody Vine Stratum</u> (Plot size:) 1. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | | | Hydrophytic |
| | 0 | =Total Cover | | Vegetation |
| % Bare Ground in Herb Stratum 80 | % Cover of I | Biotic Crust | 100 | Present? Yes No X |
| Remarks: | | | | |

| | Matrix | | Re | dox Feat | ures | | _ | | |
|--|---|-------------|---------------------------------|------------------------------------|------------------------------------|------------------|---|---|---|
| nches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| ·10 | 10YR3/1 | 95 | 10YR4/6 | 5 | С | М | clay loam | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | . <u> </u> | | | | | | | |
| | · | | | | | | | | |
| | Concentration, D=Depletion | DM-D | duced Metrix CS=C | overed or | Controd Sc | nd Craina | . ² Location: PL=Pore Lining | M-Motrix | |
| ype: C=C | oncentration, D=Depletio | 5n, Rivi=Re | educed Matrix, CS=C | overed or | Coaled Sa | na Grains | 5. Location: PL=Pore Lining | , m=matrix. | |
| ydric So | il Indicators: (Applic | able to a | II LRRs, unless ot | herwise | noted.) | | Indicators for Problen | natic Hydric Soils ³ : | |
| Histo | sol (A1) | | Sandy F | Redox (S | 5) | | 1 cm Muck (A9) (I | RR C) | |
| Histic | : Epipedon (A2) | | Stripped | d Matrix (| S6) | | 2 cm Muck (A10) | (LRR B) | |
| Black | (A3) | | | | ineral (F1 | | Reduced Vertic (F | , | |
| | ogen Sulfide (A4) | | Loamy | Gleyed M | latrix (F2 |) | Red Parent Mater | ial (TF2) | |
| Hydro | Sgen Sunde (A4) | | | | | | | | |
| Strati | fied Layers (A5) (LRR | C) | | d Matrix (| . , | | Other (Explain in I | | |
| Strati 1 cm | fied Layers (A5) (LRR Muck (A9) (LRR D) | | x Redox I | Dark Surf | ace (F6) | | Other (Explain in I | | |
| Strati 1 cm Deple | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfa | | x Redox I Deplete | Dark Surf d Dark S | ace (F6) urface (F7 | 7) | Other (Explain in I | | |
| Strati 1 cm Deple Thick | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfact (Dark Surface (A12) | | x Redox I Deplete Redox I | Dark Surf d Dark S Depressio | ace (F6) urface (F7 ons (F8) | 7) | | | d |
| Strati 1 cm Deple Thick Sand | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac Dark Surface (A12) y Mucky Mineral (S1) | | x Redox I Deplete Redox I | Dark Surf d Dark S | ace (F6) urface (F7 ons (F8) | 7) | ³ Indicators of wetland hyd | Remarks) hydrophytic vegetation an drology must be present, | d |
| Strati 1 cm Deple Thick Sand | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac Dark Surface (A12) y Mucky Mineral (S1) y Gleyed Matrix (S4) | | x Redox I Deplete Redox I | Dark Surf d Dark S Depressio | ace (F6) urface (F7 ons (F8) | 7) | ³ Indicators of wetland hyd | Remarks) hydrophytic vegetation an | d |
| Strati 1 cm Deple Thick Sand | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac Dark Surface (A12) y Mucky Mineral (S1) | | x Redox I Deplete Redox I | Dark Surf d Dark S Depressio | ace (F6) urface (F7 ons (F8) | 7) | ³ Indicators of wetland hyd | Remarks) hydrophytic vegetation an drology must be present, | d |
| Strati 1 cm Deple Thick Sand | fied Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac Dark Surface (A12) y Mucky Mineral (S1) y Gleyed Matrix (S4) | | x Redox I Deplete Redox I | Dark Surf d Dark S Depressio | ace (F6) urface (F7 ons (F8) | 7) | ³ Indicators of wetland hyd | Remarks) hydrophytic vegetation an drology must be present, | d |

| Wetland Hydrology Indicators: | | |
|--|---|--|
| Primary Indicators (minimum of one required; c | heck all that apply) | Secondary Indicators (2 or more required) |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) |
| High Water Table (A2) | x Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living Roots (C3 |) Dry-Season Water Table (C2) |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils (C6) | Saturation Visible on Aerial Imagery (C9) |
| x Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes No | x Depth (inches): | |
| Water Table Present? Yes No | x Depth (inches): | |
| Saturation Present? Yes No | x Depth (inches): Wetland | Hydrology Present? Yes <u>x</u> No |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, monitori | ng well, aerial photos, previous inspections), if availal | ble: |
| Demonstry Disting an est an example in the forms of shared | metting loundation present on Coords Forth covid a | |
| Remarks: Biolic crust present in the form of algai | matting. Inundation present on Google Earth aerial pl | holography - February 2018. |
| | | |
| | | |
| | | |
| | | |

| Project/Site: | Stone Beetland | | | City/County: | Sacramento | County | , | Sampling Da | ate: | 12/22/2 | 20 |
|---------------------|----------------------|------------------------|---------------|-----------------|--------------|----------|-------------------------|--------------------|--------------|---------|----|
| Applicant/Owner: | Taylor Builders, LLO | 2 | | | | | State: CA | Sampling Po | oint: | | 8 |
| Investigator(s): | Matt Hirkala | | | Section, | Township, I | Range: | Section 28, Tov | wnship 7 North, Ra | nge 7 East, | MDB&M | |
| Landform (hillslop | e, terrace, etc.): | terrace | | Local reli | ef (concave, | , convex | k, none): <u>convex</u> | | Slope (%): | | 4 |
| Subregion (LRR): | Mediterranean Cali | ornia (LRR C) | Lat: | | 38.4 | 464233 | Long: | -121.463994 | Datum | NAD83 | |
| Soil Map Unit Nan | ne: Egbert clay, | partially drained, 0 | to 2% slope | es (141) | | | NWI Classification | on: <u>N/A</u> | | | |
| Are climatic / hydr | ologic conditions on | the site typical for t | his time of y | year? | Yes | х | No | (If no, explain i | in Remarks | .) | |
| Are Vegetation | , Soil | , or Hydrology | | significantly o | listurbed? | Are "I | Normal Circumsta | ances" present? | Yes <u>x</u> | No | |
| Are Vegetation | , Soil | , or Hydrology | | naturally prob | olematic? | (If nee | eded, explain any | answers in Remai | rks.) | | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes _ Yes _ Yes _ | x | No No No | x x | Is the Sampled Area within a Wetland? | Yes | No | |
|---|-------------------------|---|----------------|--------|---------------------------------------|-----|----|--|
| Remarks: | | | | | | | | |

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species |
|-------------------------------------|---------------------|----------------------|---------------------|---|
| 1. | | · | | That Are OBL, FACW, or FAC: 0 (A) |
| 2 | | | | Total Number of Dominant |
| 3 | | | | Species Across All Strata: <u>2</u> (B) |
| 4 | | | | Percent of Dominant Species |
| | 0 | =Total Cover | - | That Are OBL, FACW, or FAC:(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | | | Total % Cover of: Multiply by: |
| 2 | | · | | OBL species 0 x1 = 0 |
| 3 | | | | FACW species <u>0</u> x2 = <u>0</u> |
| 4 | | | | FAC species 0 x3 = 0 |
| 5 | | | | FACU species 80 x4 = 320 |
| | 0 | =Total Cover | - | UPL species 20 x5 = 100 |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals: 100 (A) 420 (B) |
| 1. Bromus hordeaceus | 80 | Х | FACU | Prevalence Index = B/A = 4.2 |
| 2. Carduus pycnocephalus | 20 | Х | UPL | |
| 3 | | · | | Hydrophytic Vegetation Indicators: |
| 4 | | | | Dominance Test is >50% |
| 5 | | | | Prevalence Index is ≤3.0 ¹ |
| 6 | | | | Morphological Adaptationd ¹ (Provide supporting |
| 7 | | | | data in Remarks or on a separate sheet) |
| 8 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 100 | =Total Cover | | |
| Woody Vine Stratum (Plot size:) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1 | | | | be present, unless disturbed or problematic. |
| 2 | | | | Hydrophytic |
| | 0 | =Total Cover | - | Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes No X |
| Remarks: | | | | |

| SOIL | |
|------|--|
|------|--|

| | | | | | | | , | oling Point: | | |
|---|--|------------|--|---|--|------------------|--|--|--------|---|
| | | to the de | - | | | tor or co | onfirm the absence of inc | licators.) | | |
| Depth | Matrix | | Re | dox Feat | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remar | rks | |
| 1-12 | 10YR2/1 | 100 | | | | | clay loam | | | |
| | | | | | · | | · | | | |
| | | - <u> </u> | | | · | | · | | | |
| | | | | | · | | · | | | |
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| | | | | | · | | | | | |
| | _ | | | | | | · | | | |
| ¹ Type: C=0 | Concentration, D=Depletion | on, RM=Re | duced Matrix, CS=C | overed or | Coated Sar | nd Grains. | ² Location: PL=Pore Lining | , M=Matrix. | | |
| Uudria Sa | oil Indicators: (Applic | able to al | | honwing | noted) | | Indicators for Problem | actic Hydric Soile | 3. | |
| - | osol (A1) | able to al | | Redox (S | | | 1 cm Muck (A9) (I | • | • | |
| | . , | | | ` | 5) | | | | | |
| | | | Strinner | 1 Matrix (| S6) | | $2 \text{ cm Muck} (\Delta 10)$ | | | |
| | c Epipedon (A2) k Histic (A3) | | | d Matrix (Mucky M | | | 2 cm Muck (A10) Reduced Vertic (F | , , | | |
| Blac | k Histic (A3) | | Loamy | Mucky M | ineral (F1) | | Reduced Vertic (F | 18) | | |
| Black Hydr | k Histic (A3) rogen Sulfide (A4) | C) | Loamy Loamy | Mucky M Gleyed M | ineral (F1) 1atrix (F2) | | Reduced Vertic (F Red Parent Mater | 18) ial (TF2) | | |
| Blac Hydr Strat | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR | C) | Loamy Loamy Deplete | Mucky M Gleyed N d Matrix | ineral (F1) latrix (F2) (F3) | | Reduced Vertic (F | 18) ial (TF2) | | |
| Black Hydr Strat | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR n Muck (A9) (LRR D) | , | Loamy Loamy Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf | ineral (F1) latrix (F2) (F3) face (F6) | | Reduced Vertic (F Red Parent Mater | 18) ial (TF2) | | |
| Blaci Hydr Strat Depl | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR h Muck (A9) (LRR D) leted Below Dark Surfac | , | Loamy Loamy Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf | ineral (F1) latrix (F2) (F3) face (F6) urface (F7 | | Reduced Vertic (F Red Parent Mater Other (Explain in I | 18) ial (TF2) Remarks) | | |
| Blaci Hydr Strat 1 cm Depl Thicl | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR h Muck (A9) (LRR D) leted Below Dark Surfac k Dark Surface (A12) | , | Loamy Loamy Deplete Redox I Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf d Dark S Depressio | ineral (F1) latrix (F2) (F3) face (F6) urface (F7) ons (F8) | | Reduced Vertic (F Red Parent Mater Other (Explain in I | 18) ial (TF2) Remarks) hydrophytic vegeta | | |
| Blaci Hydr Strat Depl Thick | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR h Muck (A9) (LRR D) leted Below Dark Surfac | , | Loamy Loamy Deplete Redox I Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf | ineral (F1) latrix (F2) (F3) face (F6) urface (F7) ons (F8) | | Reduced Vertic (F Red Parent Mater Other (Explain in I ³ Indicators of wetland hy | 18) ial (TF2) Remarks) | esent, | |
| Blaci Hydr Strat Depl Thici Sanc | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR n Muck (A9) (LRR D) leted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) | , | Loamy Loamy Deplete Redox I Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf d Dark S Depressio | ineral (F1) latrix (F2) (F3) face (F6) urface (F7) ons (F8) | | Reduced Vertic (F Red Parent Mater Other (Explain in I ³ Indicators of wetland hy | 18) ial (TF2) Remarks) hydrophytic vegeta drology must be pr | esent, | |
| Blaci Hydr Strat Depl Depl Sanc Sanc | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR h Muck (A9) (LRR D) leted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) | , | Loamy Loamy Deplete Redox I Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf d Dark S Depressio | ineral (F1) latrix (F2) (F3) face (F6) urface (F7) ons (F8) | | Reduced Vertic (F Red Parent Mater Other (Explain in I ³ Indicators of wetland hy | 18) ial (TF2) Remarks) hydrophytic vegeta drology must be pr | esent, | |
| Blaci Hydr Strat Depl Thicl Sanc Restrictiv | k Histic (A3) rogen Sulfide (A4) tified Layers (A5) (LRR n Muck (A9) (LRR D) leted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) re Layer (if present): | , | Loamy Loamy Deplete Redox I Deplete Redox I | Mucky M Gleyed M d Matrix Dark Surf d Dark S Depressio | ineral (F1) latrix (F2) (F3) face (F6) urface (F7) ons (F8) |) | Reduced Vertic (F Red Parent Mater Other (Explain in I ³ Indicators of wetland hy | 18) ial (TF2) Remarks) hydrophytic vegeta drology must be pr | esent, | x |

| HYDROLOGY | | | | | | |
|--|---|---|--|--|--|--|
| Wetland Hydrology Indicators: | | | | | | |
| Primary Indicators (minimum of one required; check all | l that apply) | Secondary Indicators (2 or more required) | | | | |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) | | | | |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) | | | | |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) | | | | |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) | | | | |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living Roots (C3 | B) Dry-Season Water Table (C2) | | | | |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) | | | | |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils (C6) | Saturation Visible on Aerial Imagery (C9) | | | | |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes No | Depth (inches): | | | | | |
| Water Table Present? Yes No | Depth (inches): | | | | | |
| | Depth (inches): Wetland | Hydrology Present? Yes <u>No X</u> | | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, | , aerial photos, previous inspections), if availa | ıble: | | | | |
| Demostra | | | | | | |
| Remarks: | | | | | | |
| | | | | | | |
| l | | | | | | |
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| | | | | | | |

| Project/Site: | Stone Beetla | nd | City/0 | County: | Sacramento | County | , | Sampling [| Date: | 12/22/20 |
|---------------------|------------------|---------------------------------|----------------|-----------|----------------|---------|-----------------------|---------------------|------------|----------|
| Applicant/Owner: | Taylor Builde | rs, LLC | | | | | State: CA | Sampling F | Point: | 9 |
| Investigator(s): | Matt Hirkala | | | Sectior | n, Township, R | ange: | Section 28, | Township 7 North, R | ange 7 Eas | t, MDB&M |
| Landform (hillslop | e, terrace, etc | .): topographic depres | sion l | _ocal re | lief (concave, | conve | k, none): <u>conc</u> | ave | _Slope (%) | : <1 |
| Subregion (LRR): | Mediterranea | n California (LRR C) | Lat: | | 38.4 | 64261 | Long: | -121.463763 | B Datur | n: NAD83 |
| Soil Map Unit Nan | ne: <u>Clear</u> | Lake clay, hardpan substra | tum, drained, | 0 to 1% | slopes (115) | | NWI Classific | ation: <u>N/A</u> | | |
| Are climatic / hydr | ologic conditio | ons on the site typical for thi | s time of year | ? | Yes | х | No | (If no, explain | in Remark | s.) |
| Are Vegetation | , Soil | , or Hydrology | signi | ficantly | disturbed? | Are "I | Normal Circum | nstances" present? | Yes x | No |
| Are Vegetation | , Soil | , or Hydrology | natu | rally pro | blematic? | (If nee | eded, explain a | any answers in Rema | arks.) | |

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | x | No No No | x x | Is the Sampled Area within a Wetland? | Yes | No | |
|---|-------------------|---|----------------|--------|--|-----|----|--|
| Remarks: | | | | | | | | |

| Tree Stratum (Plot size:) 1.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
|---|---------------------|----------------------|---------------------|--|
| 3. | | · | | Total Number of Dominant Species Across All Strata: 3 (B) |
| 4 | 0 | =Total Cover | r | Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index Worksheet: |
| 1 | | | | Total % Cover of: Multiply by: |
| 2 | | . <u> </u> | | OBL species 0 x1 = 0 |
| 3 | | . <u> </u> | | FACW species x2 =0 |
| 4 | | | | FAC species 85 x3 = 255 |
| 5 | | | | FACU species x4 = 84 |
| | 0 | =Total Cover | r | UPL species 40 x5 = 200 |
| Herb Stratum (Plot size: 4'x4') | | | | Column Totals: 146 (A) 539 (B) |
| 1. Lolium perenne | 60 | х | FAC | Prevalence Index = B/A = 3.7 |
| 2. Epilobium brachycarpum | 20 | х | FAC | |
| 3. Bromus hordeaceus | 20 | х | FACU | Hydrophytic Vegetation Indicators: |
| 4. Phalaris paradoxa | 5 | | FAC | X Dominance Test is >50% |
| 5. Lactuca serriola | 1 | | FACU | Prevalence Index is ≤3.0 ¹ |
| 6 | | | | Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 8. | | · | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 106 | =Total Cover | | |
| Woody Vine Stratum (Plot size:) 1. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | . <u> </u> | | Hydrophytic |
| | 0 | =Total Cover | r | Vegetation |
| % Bare Ground in Herb Stratum 0 | % Cover of | Biotic Crust | 0 | Present? Yes X No |
| Remarks: | | - | | · |

| SOIL |
|------|
|------|

| epth | Matrix | | Re | dox Feature | s | | | | |
|---|---|------------|---|---|-------------------------|------------------|---|--|---------|
| nches) | Color (moist) | % | Color (moist) | % | Гуре ¹ | Loc ² | Texture | Remai | rks |
| 14 | 10YR3/1 | 100 | | | | | clay | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | <u> </u> | | 2 | | |
| pe: C=C | Concentration, D=Depletio | n, RM=Re | duced Matrix, CS=C | overed or Coa | ated Sand | Grains. | ² Location: PL=Pore Lining | M=Matrix. | |
| dric So | il Indicators: (Applica | able to al | l LRRs, unless ot | herwise no | ted.) | | Indicators for Problem | atic Hydric Soils | 3 |
| Histo | sol (A1) | | Sandy F | Redox (S5) | | | 1 cm Muck (A9) (L | RR C) | |
| Histic | c Epipedon (A2) | | Stripped | d Matrix (S6) |) | | 2 cm Muck (A10) (LRR B) | | |
| Black | (Histic (A3) | | Loamy I | Mucky Mine | ral (F1) | | Reduced Vertic (F | 18) | |
| | | | | | (50) | | | | |
| Hydr | ogen Sulfide (A4) | | Loamy | Gleyed Matr | ıx (F2) | | Red Parent Materi | al (TF2) | |
| | • • • • | C) | | • | . , | | | . , | |
| Strat | ified Layers (A5) (LRR | C) | Deplete | d Matrix (F3 |) | | Red Parent Materi Other (Explain in F | . , | |
| Strat 1 cm | ified Layers (A5) (LRR Muck (A9) (LRR D) | , | Deplete Redox I | d Matrix (F3 Dark Surface |) e (F6) | | | . , | |
| Strat 1 cm Deple | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac | , | Deplete Redox I Deplete | d Matrix (F3 Dark Surface d Dark Surfa |) e (F6) ace (F7) | | Other (Explain in F | Remarks) | |
| Strat 1 cm Deple Thick | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac (Dark Surface (A12) | , | Deplete Certein Deplete Deplete Redox I Redox I Redox I | d Matrix (F3 Dark Surface d Dark Surfa Depressions |) e (F6) ace (F7) | | Other (Explain in F | Remarks) hydrophytic vegeta | |
| Strat 1 cm Deple Thick Sand | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac | , | Deplete Certein Deplete Deplete Redox I Redox I Redox I | d Matrix (F3 Dark Surface d Dark Surfa |) e (F6) ace (F7) | | Other (Explain in F | Remarks) | resent, |
| Strat 1 cm Deple Thick Sand | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) ly Mucky Mineral (S1) | , | Deplete Certein Deplete Deplete Redox I Redox I Redox I | d Matrix (F3 Dark Surface d Dark Surfa Depressions |) e (F6) ace (F7) | | Other (Explain in F | Remarks) hydrophytic vegeta frology must be pr | resent, |
| Strat 1 cm Deple Thick Sand | ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) ly Mucky Mineral (S1) ly Gleyed Matrix (S4) | , | Deplete Certein Deplete Deplete Redox I Redox I Redox I | d Matrix (F3 Dark Surface d Dark Surfa Depressions |) e (F6) ace (F7) | | Other (Explain in F | Remarks) hydrophytic vegeta frology must be pr | resent, |

| HYDROLOGY | | |
|--|--|--|
| Wetland Hydrology Indicators: | | |
| Primary Indicators (minimum of one required; check | all that apply) | Secondary Indicators (2 or more required) |
| Surface Water (A1) | Salt Crust (B11) | Water Marks (B1) (Riverine) |
| High Water Table (A2) | Biotic Crust (B12) | Sediment Deposits (B2) (Riverine) |
| Saturation (A3) | Aquatic Invertebrates (B13) | Drift Deposits (B3) (Riverine) |
| Water Marks (B1) (Nonriverine) | Hydrogen Sulfide Odor (C1) | Drainage Patterns (B10) |
| Sediment Deposits (B2) (Nonriverine) | Oxidized Rhizospheres along Living | Roots (C3) Dry-Season Water Table (C2) |
| Drift Deposits (B3) (Nonriverine) | Presence of Reduced Iron (C4) | Crayfish Burrows (C8) |
| Surface Soil Cracks (B6) | Recent Iron Reduction in Tilled Soils | (C6) Saturation Visible on Aerial Imagery (C9) |
| Inundation Visible on Aerial Imagery (B7) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Water-Stained Leaves (B9) | Other (Explain in Remarks) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes Nox | Depth (inches): | |
| Water Table Present? Yes Nox | Depth (inches): | |
| Saturation Present? Yes <u>No x</u> | Depth (inches): | Wetland Hydrology Present? Yes No X |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, monitoring w | ell, aerial photos, previous inspections |), if available: |
| Remarks: | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Attachment D

Plant Species Observed within the Study Area

Plant Species Observed within the Stone Beetland Study Area 20 September 2019 and 22 December 2020

| Species Name | Common Name | Wetland Indicator Status |
|--------------------------|--------------------------|-----------------------------|
| Abutilon theophrasti | Velvet-leaf | UPL |
| Amaranthus blitoides | Prostrate pigweed | FACU |
| Ailanthus altissima | Tree-of-heaven | FACU |
| Amsinckia intermedia | Common fiddleneck | UPL |
| Arundo donax | Giant reed | FACW |
| Asclepias fascicularis | Narrow-leaf milkweed | FAC |
| Avena fatua | Wild oat | UPL |
| Baccharis pilularis | Coyote brush | UPL |
| Brassica nigra | Black mustard | UPL |
| Briza minor | Lesser quaking grass | FAC |
| Bromus diandrus | Ripgut grass | UPL |
| Bromus hordeaceus | Soft chess | FACU |
| Carduus pycnocephalus | Italian thistle | UPL |
| Centaurea solstitialis | Yellow star-thistle | UPL |
| Chenopod album | Lamb's quarter | FACU |
| Cichorium intybus | Chicory | FACU |
| Cirsium vulgare | Bull thistle | FACU |
| Conium maculatum | Poison-hemlock | FACW |
| Convolvulus arvensis | Bindweed | UPL |
| Croton setigerus | Doveweed | UPL |
| Cynodon dactylon | Bermuda grass | FACU |
| Cyperus eragrostis | Tall nutsedge | FACW |
| Distichlis spicata | Coastal salt grass | FAC |
| Dittrichia graveolens | Stinkwort | UPL |
| Eleocharis palustris | Common spike rush | OBL |
| Elymus caput-medusae | Medusa-head | UPL |
| Epilobium brachycarpum | Panicled willow-herb | FAC |
| Erigeron canadensis | Canada horseweed | FACU |
| Erodium botrys | Long-beaked stork's bill | FACU |
| Erodium cicutarium | Red-stemmed filaree | UPL |
| Erodium moschatum | White-stemmed filaree | UPL |
| Euphorbia maculata | Spotted sandmat | UPL |
| Galium aparine | Goose grass | FACU |
| Geranium dissectum | Cut leaf geranium | UPL |
| Helianthus annuus | Common sunflower | UPL |
| Helminthotheca echioides | Akan asante | FAC |
| Heterotheca grandiflora | Telegraph weed | UPL |

| Species Name | Common Name | Wetland Indicato Status |
|----------------------------|-------------------------|----------------------------|
| Holocarpha virgata | Narrow tar plant | UPL |
| Hordeum marinum | Seaside barley | FAC |
| Hordeum murinum | Wall barley | FACU |
| Juglans nigra | Black walnut | UPL |
| Lactuca serriola | Prickly lettuce | FACU |
| Lepidium latifolium | Broad-leaf pepperwort | FAC |
| Lolium perenne | Perennial rye | FAC |
| Lythrum hyssopifolia | Hyssop loosestrife | OBL |
| Malva parviflora | Cheeseweed mallow | UPL |
| Malvella leprosa | Alkali-mallow | FACU |
| Marrubium vulgare | White horehound | FACU |
| Matricaria discoidea | Pineapple-weed | FACU |
| Medicago polymorpha | Toothed medick | FACU |
| Morus albus | Mulberry | UPL |
| Paspalum dilatatum | Dallis grass | FAC |
| Persicaria punctata | Dotted smartweed | OBL |
| Phalaris aquatica | Harding grass | FACU |
| Phalaris paradoxa | Hood canary grass | FAC |
| , Pistacia chinensis | Chinese pistache | UPL |
| Plantago lanceolata | English plantain | FAC |
| Poa annua | Annual blue grass | FAC |
| Polygonum aviculare | Prostrate knotweed | FAC |
| Polypogon monspeliensis | Annual rabbitfoot grass | FACW |
| Portulaca oleracea | Purslane | FAC |
| Prunus dulcis | Almond | UPL |
| Raphanus sativus | Radish | UPL |
| Rubus armeniacus | Himalayan blackberry | FAC |
| Rumex conglomeratus | Sharp dock | FACW |
| Rumex crispus | Curly dock | FAC |
| Salix exigua | Narrowleaf willow | FACW |
| Salix gooddingii | Goodding's black willow | FACW |
| Salix lasiolepis | Arroyo willow | FACW |
| Silybum marianum | Milk thistle | UPL |
| Sonchus asper | Spiny-leaf sow-thistle | FAC |
| Sorghum halepense | Johnson grass | FACU |
| Stellaria media | Common chickweed | FACU |
| Toxicodendron diversilobum | Poison oak | UPL |
| Tribulus terrestris | Puncture vine | UPL |
| Veronica peregrina | Neck weed | FAC |
| Vitis californica | Wild grape | FACU |

| | | Wetland Indicator Status | |
|------------------------------|--------------------------|-----------------------------|--|
| Species Name | Common Name | | |
| Vicia villosa subsp. villosa | Winter vetch | UPL | |
| Vulpia myuros | Rat-tail six-weeks grass | FACU | |
| Xanthium strumarium | Rough cocklebur | FAC | |

GIS Shapefiles and the Aquatic Resources Excel Spreadsheet (on CD)

Attachment F

Access Letter

| AQUATIC RESOL | JRCE FEA | TURES |
|-------------------------------------|-------------------------|----------------------|
| WETLA | NDS | |
| Seasonal | Wetland | |
| Feature ID | Acreage | |
| SW-1 | 0.152 | |
| Total: | 0.152 | |
| OTHER W | /ATERS | |
| Ephemer | al Ditch | |
| Feature ID | Acreage | Linea Feet |
| ED-1 | 0.032 | 148 |
| ED-2 | 0.021 | 311 |
| Total: | 0.053 | 459 |
| Intermitte | ent Ditch | |
| Feature ID | Acreage | Linea Feet |
| ID-1 | 0.008 | 32 |
| Total: | 0.008 | 32 |
| Perennial | Drainage | |
| Feature ID PD-1 (Morrison Creek) | Acreage 1.779 | Linea Feet 872 |
| PD-2 (Beacon Creek) | 0.064 | 94 |
| Total: | 1.843 | 966 |
| Total Other Waters: | 1.904 | 1,457 |

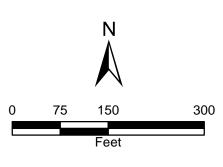


Notes:

Map Scale: 1 inch = 150 feet Coordinate System: NAD 1983 State Plane California II Datum: NAD83 (North American Datum 1983) **Projection:** Lambert Conformal Conic Vertical Data: NAVD88 (North American Vertical Datum 1988) Aerial Base: Sacramento County 2018 Aerial Base Flown: 26 March 2018 Topographic Contours: Merrick & Company

Date Map Prepared: 9 November 2021 Map Prepared by: M. Fremont/M. Hirkala Delineation Performed by: M. Hirkala **Definitions:**

NAD = North American Datum NAVD = North American Vertical Datum NED = National Elevation Datase



Prepared For:

Taylor Builders, LLC c/o Clifton Taylor 508 Gibson Drive, Suite 260 Roseville, CA 95678

- Study Area Boundary (15 acres) Data Point
- 米 Culvert
- \sim Ground Surface Elevation Reference Point

Aquatic Resources (2.056 acres) Wetlands

- Seasonal Wetland (0.152 acre) **Other Waters**
- Ephemeral Ditch (0.053 acre)
- Intermittent Ditch (0.008 acre)
- Perennial Drainage Beacon Creek (0.064 acre) Perennial Drainage - Morrison Creek (1.779 acres)

Aquatic Resources Delineation SRCSD Property

Sacramento, Sacramento County, California, California



8421 Auburn Boulevard, Suite 248 Citrus Heights, California 95610 (916) 822.3220 | www.madroneeco.com

