Director CDP Staff Report With Attachments



# DIRECTOR OF DEVELOPMENT SERVICES STAFF REPORT

November 13, 2023

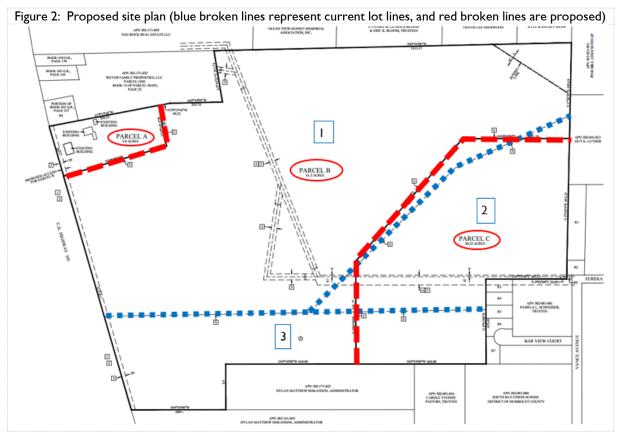
Title:	Carrington Company Lot Line Adjustment Coastal Development Permit				
Project:	Coastal Development Permit CDP-23-0003				
Location:	4775 Broadway (aka 4635 Broadway)				
APN:	302-171-035				
Applicant:	The Carrington Company				
Property Owner:	Francis and Carole Carrington, Trustee of the Carrington Family 2000 Trust				
Purpose/Use:					
Application Date:	May 8, 2023				
General Plan:	Coastal Agriculture (A), and Inland Agriculture (A) and Residential Estates (RE)				
Zoning:	Coastal Agriculture (AC), and Inland Agriculture (A) and Residential Estates (RE)				
CEQA:	Exempt under §15305, Class 5 Minor Alterations in Land Use Limitation				
Staff Contact:	Caitlin Castellano, Senior Planner				
Recommendation:	Hold a public hearing; and Adopt a resolution finding the project exempt from CEQA, and approving with conditions				
Action:	"I hereby adopt a resolution finding the project exempt from CEQA, and approving with conditions a coastal development permit for a lot line adjustment at 4775 Broadway (APN 302-171-035)."				
Appeal Status:	The City's final action on the coastal development permit is appealable to the California Coastal Commission.				



#### **PROJECT SUMMARY**

The applicant is proposing to adjust the lot lines between three parcels (identified as one Assessor's Parcel Number), resulting in three parcels (see Table I below, and Figures 2 and 3) all under the same ownership. The property is in the Coastal Zone and the proposed Lot Line Adjustment (Project No. LLA-23-000 I) is considered development as defined by the Coastal Act; therefore, approval of a Coastal Development Permit (CDP) is required prior to processing with the LLA. The City's final action on the CDP is appealable to the California Coastal Commission.

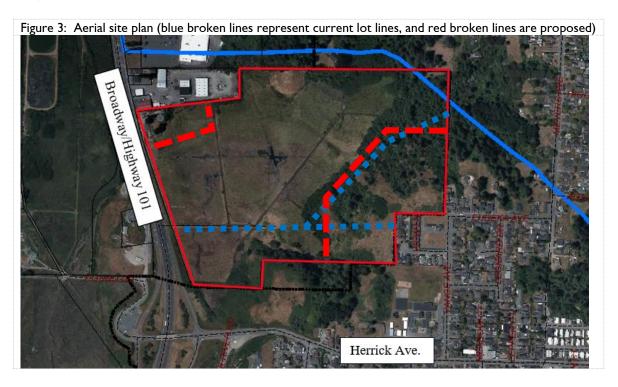
able 1. Existing and Proposed Parcels					
Parcel	Acres				
	Before LLA	After LLA			
I/A	54.7 (I)	3 (A)			
2/B	14.0 (2)	61.3 (B)			
3/C	15.83 (3)	20.23 (C)			



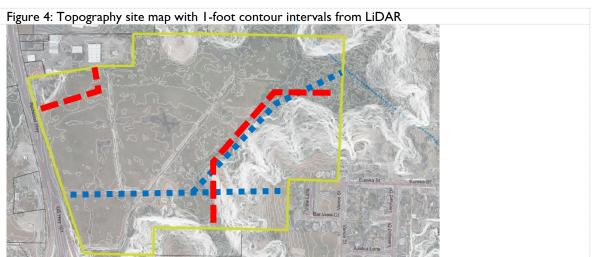
#### **Background**

The City performed a legal parcel review, which confirmed there are three legal parcels under one Assessor Parcel Number (APN). Per the applicant, Parcel I is developed with existing buildings used as a day care and farm for individuals needing assistance with daily tasks (i.e. the Carole Sund Center farm and garden day care for adults with disabilities, operated by Butler Valley, Inc, a non-profit agency) and the remaining potion of Parcel I is separately leased and used for a commercial grazing operation; Parcels 2 and 3 are undeveloped and the lowland portions of each parcel are also included in the leased commercial grazing operation, and the upland portions of Parcels 2 and 3 are open space (Figures 3 and 4). The purpose of the LLA is to convey proposed resultant Parcel A to Butler Valley, Inc., retain resultant Parcel B and continue leasing it for grazing, and potentially sell resultant Parcel C in the future. No development is proposed

on any of the resultant parcels at this time. A review of City records shows the Butler Valley, Inc. farming operations were permitted in 2012 under CDP-12-0008 and have been in operation since. Existing development on Parcel I (and used by Butler Valley, Inc.) include a 1,860-square-foot[sf] barn/agriculture building, I,675-sf craftsman-style farmhouse, 760-sf accessory structure, 280-sf greenhouse (attached to the barn), raised planter beds, 96-sf animal pen, 40-sf chicken coop, and orchard.



The subject property is approximately ( $\sim$ ) 85 acres and has three distinct areas: (1) the small raised terrace (at  $\sim$ 10 to 25 feet in elevation) at the northwestern corner of the property used by Butler Valley, Inc. where farm-related structures are concentrated; (2) the large lowland area of grazed wetlands (at  $\sim$ 5 to 10 feet in elevation); and (3) the large upper terrace area along the eastern side of the property (sloping up from the grazed wetlands to  $\sim$ 119 feet in elevation comprised of shrub and grassland). The LLA would move existing lot lines to roughly separate these three areas into distinct parcels (Figure 4).



In total, ~54 acres of the property are lowland (mapped as wetland in the U.S. Fish and Wildlife Service's National Wetlands Inventory [Figure 5]) and ~31 acres are upland (~1.4 acres located in the northwestern portion of the property are associated with the existing development, and ~29.5 acres are located on the eastern portion of the property). Resultant Parcel A would contain all existing development and contain upland and lowland, resultant Parcel B would contain mostly lowland and continue to be used as grazed wetland, and resultant Parcel C would be mostly upland. In 2012, a wetland delineation (Attachment 3) was completed for the eastern upland-portion of the property (proposed resultant Parcel C) when the property owner previously contemplated development there, and it showed that the upland terrace could be accessed and developed without filling wetlands. However, no wetland delineation has been submitted as part of this application, and given the National Wetlands Inventory mapping shows most of resultant Parcel B is wetland, it can't be assumed that resultant Parcel B would have an upland footprint that could be accessed and developed without filling wetlands.

Figure 5: U.S. Fish and Wildlife Service's National Wetlands Inventory (light green is freshwater emergent wetland, and dark green is freshwater forested/shrub wetland)



Most of the property is located within the Coastal Zone with an Agriculture (A) land use designation, and a small area at the northeastern corner of the property is located outside of the Coastal Zone (in the Inland Zone) and is designated inland Agriculture and Estate Residential (ER). (Figure 6).



Figure 6: Zoning map (red outline is subject property; blue line is coastal zone boundary)

#### Applicable Regulations

Within the Coastal Zone, a LLA is considered "development" per Eureka Municipal Code (EMC) §10-5.2906.2(u); therefore, a Coastal Development Permit (CDP) is required pursuant to EMC §10-5.29302. The City of Eureka has permit jurisdiction for issuing the CDP, and the City's decision to approve the CDP is appealable to the California Coastal Commission. The LLA also requires separate approval by the Development Services Director under the City's subdivision ordinance (EMC Chapter 154) which implements the Subdivision Map Act. Following the action on the CDP, the Director will take action on the LLA.

#### COASTAL DEVELOPMENT PERMIT ANALYSIS

Pursuant to EMC §10-5.29310.1, to approve the CDP, the Development Services Director must find the proposed development conforms to the policies of the Certified Local Coastal Program. The Local Coastal Program is divided into two components: the Land Use Plan (LUP) and Implementation Plan (IP). The first component, the LUP, is the General Plan specific to land in the Coastal Zone. It outlines the permitted uses and policies needed to achieve the goals of the Coastal Act and includes the general plan map.

#### **LAND USE PLAN (LUP) ALALYSIS**

#### I. A – Agriculture land use designation

The property is designated A - Agriculture. The purpose of the A land use designation is "to protect agricultural lands and give special protection to lands which are also farmed or grazed wetlands, for long-term productive agricultural and wildlife habitat uses." Farm-related structures such as barns, sheds, and farmer-occupied housing are principally permitted under the A designation, while resource-dependent activities (e.g., wetland restoration) and incidental public purposes (e.g., burying sewer pipes), are conditionally permitted. No development is proposed on any of the resultant parcels. The primary purpose of the LLA is to convey proposed resultant Parcel A to the current tenants operating the Carole Sund Farm which provides an agricultural-

based environment for their adult day program participants. Although resultant Parcel A will be smaller than any of the existing three parcels (see Table I above), it will be adequately sized to fit the Carole Sund Farm operation. The other two parcels will become larger and no additional parcels will be created. The LLA will create a more logical legal separation between the Carole Sund Farm operation and the separately leased grazing land. The existing agricultural (e.g. grazing) use of resultant Parcel B, and the existing open space (e.g. wildlife habitat) use of resultant Parcel C, will continue. Therefore, the proposed LLA and each resultant parcel is consistent with the purpose and allowable uses of the A land use designation.

#### 2. LUP Goals and Policies

Conformance of the proposed LLA with applicable LUP goals and policies is discussed below.

Goal I.A. To establish and maintain a land use pattern and mix of development in the Eureka area that protects residential neighborhoods, promotes economic choices and expansion, facilitates logical and cost-effective service extensions, and protects valuable natural and ecological resources.

Policy I.A.4 To promote the public safety, health, and welfare, and to protect private and public property, to assure the long-term productivity and economic vitality of coastal resources, and to conserve and restore the natural environment, the City shall protect the ecological balance of the Coastal Zone and prevent its deterioration and destruction.

The proposed LLA does not change the existing land use pattern and mix of development in Eureka as it only changes the configuration of three parcels and does not propose any other new development. The reconfiguration of lot lines does result in the separation of the elevated, northwestern corner of the property (adjoining Broadway) where agricultural buildings are concentrated from the grazed wetlands below, resulting in a 61.3-acre parcel (resultant Parcel B) which may not have an accessible developable footprint outside of wetlands. To ensure the LLA is not creating a need and right to fill wetlands as a result of creating a parcel that does not have land that can be accessed and developed without filling wetlands, this CDP is conditioned to record a restrictive land use covenant limiting development on the resultant Parcel in perpetuity. Development allowed in grazed or farmed wetlands pursuant to LUP Policy 6.A.15 and EMC §10-5.2942.13 would continue to be allowed (including agricultural operations, agricultural accessory structures, resource-dependent activities, and incidental public service purposes), except: (1) farm-related residential development (e.g., housing for the farm owner and employees) would be prohibited; and (2) agricultural accessory structures would only be allowed if an upland location is identified to accommodate the structure and access thereto, or if the structure, because of its function, could not be concentrated in an upland location, such as cattle fencing, bridges, and agricultural equipment. As a result, the LLA CDP protects resultant Parcel B's long-term agricultural productivity as well as its valuable natural and ecological resources.

Resultant Parcel A will be conveyed to Butler Valley, Inc., who will continue to operate their adult day center with farming operations. Although the underlying parcel is being reduced from 54.7 acres to 3 acres, Butler Valley's operations and associated development (animal pens, barn, barnyard, garden beds, chicken coop, orchard, greenhouse, farmhouse and accessory building), will continue to fit on the parcel. As a result, the LLA CDP protects resultant Parcel A's long-term agricultural productivity.

The LLA will separate off most of the upper terrace along the eastern side of the property as resultant Parcel C. Resultant Parcel C's legal separation from the grazed wetlands below makes it more likely to be separately sold and operated. However, a subsequent CDP for any new agriculture development or use will be required. Future property owners may desire residential development rather than agricultural development, given the upland terrace land is adjacent to existing residential development. However, if residential development is proposed in the future, in addition to a CDP for the development, an LCP Amendment will be required to change land use and zoning, and to move the City's Urban Limit Line to allow utility service extensions to serve the parcel. Therefore, given any new agricultural development or any proposal for residential development would require additional discretionary review and authorization, the LLA CDP protects valuable natural and ecological resources on resultant Parcel C.

Furthermore, referrals were sent to agencies and City departments with interest or jurisdiction over the property. The California Coastal Commission reiterated City subdivision standards and wetland/ESHA protection policies which prohibit creating reconfigured parcels that don't have sufficient uplands where development could be sited; a restrictive land use covenant is conditioned for resultant Parcel B to not allow wetland fill for agricultural accessory structures that, pre-LLA, would be required to be concentrated with existing structures in the northwestern corner of the parcel in order to minimize adverse environmental effects on the farmed wetlands, and therefore addresses this comment. Additionally, the California Department of Fish and Wildlife (CDFW) acknowledged there is existing extensive wetlands dominating the central portion of the project site (i.e. proposed resultant Parcel B) which represent valuable habitat with restoration potential for coho and other sensitive fish and wildlife species dependent on wetland and estuarine habitats. CDFW also recommended a deed restriction limiting development on resultant Parcel B to only allow for existing agricultural uses and activities consistent with wetland resource values (a restrictive land use covenant is included as a condition of approval).

Humboldt County Department of Public Works — Land Use Division provided comments regarding access requirements for proposed resultant Parcel C from Eureka Avenue, a County maintained roadway, which are pertinent to any future development proposals and have been provided to the applicant. And, Caltrans (and the City's Surveyor) recommended an access easement be granted over resultant Parcel A for the benefit of resultant Parcel B since the sole access to both parcels is from a shared driveway from Broadway/Highway 101, which has been included as a condition of approval. Caltrans also requested the owner work with them regarding an encroachment permit for the existing access driveway from Broadway should any modifications be desired in the future; the applicant has been made aware of this request.

No other comments were received indicating the proposed LLA CDP will be detrimental to the public health, safety, or welfare, or injurious to private and public property, and the LLA CDP as conditioned will preserve the long-term productivity and economic vitality of coastal resources and the natural environment. Therefore, for these reasons, the proposed LLA CDP as conditioned is consistent with Goal I.A and associated Policy I.A.4, and will protect the ecological balance of the Coastal Zone and prevent its deterioration and destruction.

Goal 4.A To ensure the effective and efficient provision of public facilities and services for existing and new development.

All utilities (water, sewer, power, etc.) are existing and serve the existing development on resultant Parcel A. Resultant Parcel B will be preserved for agriculture and open space uses through a restrictive land use covenant (included as a condition of approval), and any new agriculture development on resultant Parcel B or Parcel C will be subject to CDP requirements. Additionally, any future development of resultant Parcel C with residential uses will require extensive permitting as outlined above under *Goal I.A/Policy I.A.4*. Therefore, the proposed LLA CDP conforms to Goal 4.A and it's associated policies.

Goal 6.A To protect and enhance the natural qualities of the Eureka area's aquatic resources and to preserve the area's valuable marine, wetland, and riparian habitat.

Policy 6.A.3 The City shall maintain and, where feasible, restore biological productivity and the quality of coastal waters, streams, wetlands, and estuaries appropriate to maintain optimum populations of aquatic organisms and for the protection of human health through, among other means, minimizing adverse effects of wastewater and stormwater discharges and entrainment, controlling the quantity and quality of runoff, preventing depletion of groundwater supplies and substantial interference with surface water flow, encouraging wastewater reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

Policy 6.A.6 The City declares the following to be environmentally sensitive habitat areas within the Coastal Zone:

- a. Rivers, creeks, sloughs, gulches and associated riparian habitats, including but not limited to Eureka Slough, Fay Slough, Cut-Off Slough, Freshwater Slough, Cooper Slough, Second Slough, Third Slough, Martin Slough, Ryan Slough, Swain Slough, and Elk River.
- b. Wetlands and estuaries, including that portion of Humboldt Bay within the City's jurisdiction, riparian areas, and vegetated dunes.
- c. Indian Island, Daby Island, and the Woodley Island wildlife area.
- d. Other unique habitat areas, such as waterbird rookeries, and habitat for all rare or endangered species on state or federal lists.
- e. Grazed or farmed wetlands (i.e., diked former tidelands).

Policy 6.A.7 Within the Coastal Zone, the City shall ensure that environmentally sensitive habitat areas are protected against any significant disruption of habitat values, and that only uses dependent on such resources shall be allowed within such areas. The City shall require that development in areas adjacent to environmentally sensitive habitat areas be sited and designed to prevent impacts which would significantly degrade such areas, and be compatible with the continuance of such habitat areas.

Policy 6.A.8 Within the Coastal Zone, prior to approval of a development, the City shall require that all development on lots or -s designated NR (Natural Resources) on the Land Use Diagram or within 250 feet of such designation, or development potentially affecting an environmentally sensitive habitat area, shall be found to be in conformity with the applicable habitat protection policies of the General Plan. All development plans, drainage

plans, and grading plans submitted as part of an application shall show the precise location of the habitat(s) potentially affected by the proposed project and the manner in which they will be protected, enhanced or restored.

- 6.A.9 The City shall permit the diking, filling, or dredging of open coastal waters, wetlands, or estuaries only under the following conditions:
  - a. The diking, filling or dredging is for a permitted use in that resource area;
  - b. There is no feasible, less environmentally damaging alternative;
  - c. Feasible mitigation measures have been provided to minimize adverse environmental effects;
  - d. The functional capacity of the resource area is maintained or enhanced.
- 6.A.14 Consistent with all other applicable policies of this General Plan, the City shall limit development or uses within wetlands that are neither farmed nor grazed, or within estuaries, to the following:
  - a. Port facilities.
  - b. Energy facilities.
  - c. Coastal-dependent industrial facilities, including commercial fishing facilities.
  - d. Maintenance of existing or restoration of previously dredged depths in navigation channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.
  - e. Incidental public service purposes which temporarily impact the resources of the area, such as burying cables or pipes, inspection of piers, and maintenance of existing intake and outfall lines.
  - f. Restoration projects.
  - g. Nature study, aquaculture, or similar resource-dependent activities.
  - h. New or expanded boating facilities in estuaries, consistent with the demand for such facilities.
  - i. Placement of structural piling for public recreational piers that provide public access and recreational opportunities.
- 6.A.15 The City shall limit uses and development in grazed or farmed wetlands to the following:
  - a. Agricultural operations limited to accessory structures, apiaries, field and truck crops, livestock raising, greenhouses (provided they are not located on slab foundations and crops are grown in the existing soil on site), and orchards;
  - b. Farm-related structures, including barns, sheds, and farmer-occupied housing, necessary for the performance of agricultural operations. Such structures may be located on an existing grazed or farmed wetland parcel only if no alternative upland location is available for such purpose and the structured are sited and designed to minimize adverse environmental effects on the farmed wetland. No more than one permanent residential structure per parcel shall be allowed.
  - c. Restoration projects, including the PALCO on-site restoration and enhancement program.
  - d. Nature study, aquaculture, and similar resource-dependent activities; and,
  - e. Incidental public service purposes which may temporarily impact the resources of the area, such as burying cables or pipes.

As outlined in the Background section above, a majority of the property is comprised of lowland wetland which are being utilized for grazing. The City's LCP declares wetlands, including grazed or farmed wetlands, Environmentally Sensitive Habitat Areas (ESHA), and protects ESHA against any significant disruption of habitat values (Policies 6.A.6 and 6.A.7). In addition, the City only permits filling, diking, or dredging of grazed wetlands if: (I) there is no feasible, less environmentally damaging alternative; (2) feasible mitigation measures have been provided to minimize adverse environmental effects; (3) the functional capacity of the resource area is maintained or enhanced; and (4) the filling, diking, or dredging is for a permitted use (Policy 6.A.9). Policy 6.A. I 5 lists uses allowed within grazed or farmed wetlands, which are limited to agricultural operations, farm-related structures, restoration projects, resource-dependent activities, and incidental public service purposes. Policy 6.A.15 further limits farm-related structures in grazed wetlands, only allowing such structures if no alternative upland location is available for such purpose and the structures are sited and designed to minimize adverse environmental effects on the farmed wetland.

Existing Parcel I includes both the majority of grazed wetlands, as well as the cluster of existing farm-related structures on a raised terrace. Under Policy 6.A.15, newly proposed farm-related structures on existing Parcel I would likely be required to be concentrated with the existing structures on the raised terrace in order to minimize adverse environmental effects on the farmed wetland consistent with Policy 6.A.15. However, after the LLA, the raised terrace will be on resultant Parcel A and the grazed wetlands will be located on resultant Parcel B. If resultant Parcel A is then sold separately as intended, an upland location may no longer be available for new farm-related structures necessary for agricultural operations on resultant Parcel B, and additional wetland fill could be justified under the wetland fill minimization language of Policy 6.A.15. Therefore, the deed restriction described above under *Policy 1.A.4* is necessary to ensure the LLA does not facilitate additional wetland fill on resultant Parcel B contrary to the ESHA and wetland protection policies of the LCP, which require maintenance of the biological productivity and the quality of coastal wetlands, and protection of wetlands against any significant disruption of habitat values.

Resultant Parcel A includes a raised terrace already developed with a number of agricultural structures, and resultant Parcel C includes the upland terrace that could potentially be developed and accessed from adjacent County roads without filling wetlands. As a result, deed restrictions are not necessary to ensure wetland protection on these two parcels.

Furthermore, any new development on any of the resultant parcels in the future would require a subsequent CDP and environmental review. Any proposed development would be required to be sited and designed to be prevent impacts which would significantly degrade the existing wetland/ESHA areas, and all development plans, drainage plans, and grading plans would need to show the precise location of the ESHA potentially affected by the proposed development and describe and show how the ESHA would be protected, enhanced or restored.

Therefore, for these reasons, the CDP LLA as conditioned is consistent with Goal 6.A and associated policies.

Goal 6.B: Agricultural Preservation - To protect agricultural lands for their resource, aesthetic, and economic values.

The City shall require the retention in agricultural use of agricultural lands Policy 6.B.2 within the Coastal Zone with soils other than Classes I or II in agricultural use, except under the following conditions:

- Continued or renewed agricultural use is demonstrated to be infeasible,
- Conversion to urban uses would locate development within, contiguous with, Ь. or in close proximity to, existing developed areas, or
- Farmed wetlands are proposed and funded through a wetland management C. and restoration program for restoration of resource-dependent activities.

The City shall limit uses in grazed or farmed wetlands to the following: Policy 6.B.3

- Agricultural operations (except for greenhouses on slab foundations). a.
- Farm-related structures (including barns, sheds, and farmer-occupied housing) Ь. necessary for the continuance of the agricultural operation. Such structures may be located on an existing grazed or farmed wetland parcel only if no alternative upland location is available for such purpose and the structures are sited and designed to minimize the adverse environmental effects on the farmed wetland. No more than one primary residential structure per parcel shall be allowed.
- Restoration and enhancement projects. C.
- Nature study, aquaculture, and similar resource-dependent activities. d.
- Incidental public service purposes which may temporarily impact the resources e. of the area, such as burying cable and pipes.

Consistent with the Coastal Act (California Resources Code Section 3025(a)), the City shall prohibit land division of existing agriculturally-designated land within the Coastal Zone, other than for leases for agricultural uses.

The proposed LLA will reconfigure three existing parcels and will not result in any additional parcels beyond what exists currently; therefore, the LLA can be found consistent with Policy 6.B.5. Currently, the property is used for agricultural and open space purposes, with Butler Valley, Inc.'s farming operation being associated with an adult day center program. The proposed LLA does not contemplate any new development, which would require subsequent permitting and environmental review. The existing adult day center and farming operation will continue on resultant Parcel A, and resultant Parcel B will continue to be used as grazed wetland/farmland, with a more logical parcel boundary between the two. Resultant Parcel C will continue to be used for open space, but any future development of resultant Parcel C with residential uses will require extensive environmental review and permitting as outlined above under Goal I.A/Policy 1.A.4, and would be consistent with Policy 6.B.2.b because the residential development would be sited adjacent to an existing developed area with residential uses located in the County's jurisdiction near Eureka and Vance Avenues. Additionally, Goal 6.A and it's associated policies above address Policy 6.B.3 regarding uses in grazed wetlands. Therefore, the LLA CDP as conditioned protects agricultural lands for their resource, aesthetic, and economic values, consistent with Goal 6.B and associated policies.

Goal 7.A To minimize loss of life, injury, and property damage due to seismic hazards; and Goal 7.B To minimize loss of life, injury, and property damage due to geological hazards. Goal 7.D To minimize the risk of loss of life, injury, damage to property and economic and social dislocations resulting from flood hazards.

The entire property is subject to liquefaction (which may impact ground surface strength in response to strong ground shaking from earthquakes) but is relatively flat and stable except for the eastern portion (proposed resultant Parcel C) which slopes upward (with moderate instability) to an upland area with low instability (Figure 7). A majority of the entire property is located in the 100-year high flood risk FEMA mapped flood zone (Figure 8); however, the existing development of resultant Parcel A, and almost all of resultant Parcel C, are outside of the flood zone. All of resultant Parcel A, a majority of resultant Parcel B, and a sliver of resultant Parcel C are located in the mapped tsunami inundation area on the Tsunami Inundation Map for Emergency Planning (Figure 8).

Figure 7: Seismic safety and slope stability map (gray is relatively stable; yellow is low instability, and green is moderate stability) per Humboldt County WebGIS Hazards layer

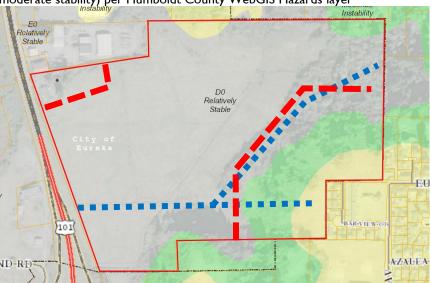
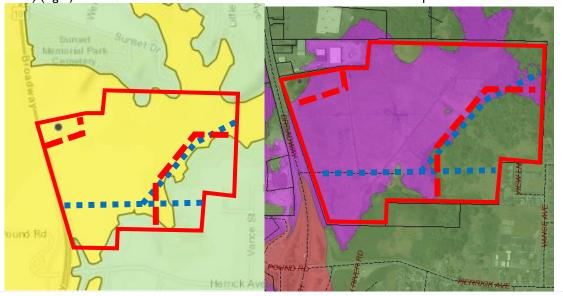


Figure 8: Tsunami hazard area map (yellow is tsunami risk area) (left) from the Department of Conservation's California Tsunami Hazard Area Maps; and 2017 FEMA data flood map (purple is high flood risk for 100-year flood) (right) from Eureka's WebGIS based on data from the FEMA Flood Map Service Center.



Although the entire property and all resultant parcels are within an area at risk of liquefaction and storm and tsunami flooding, the risk after the LLA is no greater than the risk at this time. The proposed LLA also does not contemplate any new development, and only changes the configuration of three parcels to allow conveyance of resultant Parcel A to Butler Valley, Inc. (per the applicant). However, any future proposed development will require subsequent permitting and environmental review as outlined above under Goal I.A/Policy I.A.4. Future development permitting would require appropriate geological and soils reports by a geologist or engineer with expertise in seismic and geological engineering, and require the development be sited and designed to minimize risk to the safety of occupants and neither be subject to, or contribute to, significant geological instability or flooding for the life span of the project. Also, a flood development permit from the City pursuant to EMC Title XV, Chapter 153: Flood Hazard Regulations would be required for new structures in the high risk flood zone (Figure 8) which may require elevating the structure above the Base Flood Elevation (BFE)(which is 10 feet for this area) or flood proofing and designing the structure so it's capable of resisting hydrostatic and hydrodynamic loads, which minimizes the risk of loss of life, injury, damage to property and economic and social dislocations resulting from flood hazards. Therefore, the project is consistent with Goals 7.A, 7.B, and 7D and associated policies.

Based on the discussion above, the finding can be made the proposed project conforms to the A land use designation, and applicable LUP goals and policies.

#### IMPLEMENTATION PLAN (IP) Analysis

As described in the Background section above, the property is located in the AC – Coastal Agriculture zoning district (Figure 6), with an extremely small portion being located in the Inland Zone in the RE – Residential Estates and A – Agriculture zoning districts (the inland zoning is not being considered as part of this CDP). The minimum parcel size in the AC zoning district is 3 acres, and each resultant parcel meets the minimum parcel size requirements (see Table I in the Project Summary section above for a list of parcel sizes), with resultant Parcel A being exactly 3

acres in size. An existing 760-sf accessory structure associated with the existing development (occupied by Butler Valley, Inc.) proposed for resultant Parcel A is non-conforming as it does not meet the 30-foot minimum setback standard to the existing north lot line (it appears to be setback less than 10 feet) and may continue as it was constructed prior to the property being zoned AC in 1984 when the City's LCP was initially certified. All other existing structures on resultant Parcel A meet the AC development standards for 30-foot minimum front, rear and side setbacks, and 35-foot-tall maximum height; there are no minimum lot width or depth standards, and no maximum Floor Area Ratio (FAR) standard, in the AC zoning district. Proposed resultant Parcels B and C are undeveloped and therefore conform to the AC zoning district development standards. There are also standards regarding the impact of odors, fumes, and other objectional impacts farming can create for adjoining properties, and no complaints to the City's knowledge have been logged against the existing Butler Valley, Inc. farm operations or the existing cattle grazing.

In addition to specifying the regulations pertaining to specific zoning districts, EMC §10-5.2940 et. seq. specifies development standards which apply to all development in the Coastal Zone, including standards for public access, environmental resources, natural hazards, visual resources, public works, and new development. These standards largely reiterate certified LUP policies discussed in the LUP policy analysis above, and the applicable findings are incorporated as if set forth in full herein.

There is one additional standard not covered under the LUP policy analysis above, which is §10-5.2946.9:

#### 10-5.2946.9 Archaeological areas.

- a) When development is proposed within a known archaeological area, project design shall avoid or minimize impacts to the resource.
- b) When development in archaeological sites cannot be avoided, adequate mitigation measures shall be required. Mitigation shall be designed in accord with guidelines of State Office of Historic Preservation and the State of California Native American Heritage Commission. When, in the course of grading, excavation, or any other development activity, evidence of archaeological artifacts is discovered, all work which could damage or destroy such resources shall cease and the City Planning Director shall be notified immediately of the discovery.
- c) The City Planning Director shall notify the State Historic Preservation Officer and the Sonoma State University Cultural Resources Facility of the find. At the request of the State Historic Preservation Officer, development of the site may be halted until an archaeological survey can be made and appropriate and feasible mitigation measures are developed.

No development is proposed as part of the LLA; therefore, no ground disturbance is anticipated. The proposed LLA CDP was referred to the Bear River Band, Blue Lake Rancheria and Wiyot Tribe Tribal Historic Preservation Officers (THPOs), and the Bear River Band THPO responded with no comments or requests, and the Wiyot Tribe THPO responded with no concerns for the proposed LLA.

Based on the discussion above, the finding can be made the proposed project as conditioned conforms with the certified IP.

#### **ENVIRONMENTAL ASSESSMENT**

The City of Eureka, as Lead Agency, has determined the proposed project is categorically exempt from the provisions of the California Environmental Quality Act, in accordance with §15305, Minor Alterations in Land Use Limitation, Class 5 of the CEQA Guidelines. Class 5 exempts minor alterations in land use limitations in areas with an average slope of less than 20%, which do not result in any changes in land use or density, including minor lot line adjustments not resulting in the creation of any new parcel. The overall property has an average slope of less than 20% (at approximately 11%), and the proposed lot line adjustment will not result in the creation of any new parcel, just the reconfiguration of three existing parcels resulting in three parcels. Further, the City of Eureka as the lead agency has determined none of the exceptions to the Class 5 exemption are applicable to the project as no subsequent development after the LLA is proposed at this time.

#### **PUBLIC HEARING NOTICE**

Public notification consisted of notification by mail of property owners within a 300-foot radius of the site on or before November 3, 2023, meeting the required 10-calendar-day noticing period. In addition, the notice was posted on the City's website and bulletin boards the same day the notice was mailed, and a public hearing sign was posted on the site on or before November 3, 2023.

#### **CONCLUSION**

Based on the analysis above, the proposed project as conditioned is consistent with the certified and adopted Local Coastal Program. Conditions have been added to ensure avoidance of impacts to coastal resources, including, limiting future development in the environmentally sensitive habitat areas on resultant Parcel B, and ensuring resultant Parcel B maintains legal access over resultant Parcel A, which will protect agricultural lands for their resource, aesthetic, and economic values.

#### **STAFF CONTACT**

Caitlin Castellano, Senior Planner, 531 K Street, Eureka, CA 95501; planning@ci.eureka.ca.gov; (707) 441-4160

#### **DOCUMENTS ATTACHED**

Attachment I: Director CDP Resolution	pages 16-18
Attachment 2: LLA Map	. •
Attachment 3: 2013 Wetland Delineation Report	

#### DIRECTOR OF DEVELOPMENT SERVICES RESOLUTION NO. 2023-xx

A RESOLUTION OF THE DIRECTOR OF DEVELOPMENT SERVICES OF THE CITY OF EUREKA CONDITIONALLY APPROVING A COASTAL DEVELOPMENT PERMIT FOR A LOT LINE ADJUSTMENT TO ADJUST THE LOT LINES BETWEEN THREE PARCELS (IDENTIFIED AS ONE ASSESSOR PARCEL NUMBER), RESULTING IN THREE PARCELS AT 4775 BROADWAY (APN: 302-171-035)

WHEREAS, the applicant/owner, The Carrington Company, is proposing a Lot Line Adjustment (LLA) to adjust the lot lines between three parcels (identified as one Assessor's Parcel Number), resulting in three parcels all under the same ownership at 4775 Broadway (APN 302-171-035); and

WHEREAS, subject property is approximately (~) 85 acres and has three distinct areas: (I) a small raised terrace at the northwestern corner of the property used by Butler Valley, Inc. where farm-related structures are concentrated; (2) a large lowland area of grazed wetlands; and (3) a large upper open space terrace area along the eastern side of the property, and the LLA would move existing lot lines to roughly separate these three areas into distinct parcels; ; and

WHEREAS, the purpose of the LLA is to convey proposed resultant Parcel A (3 acres) to Butler Valley, Inc., retain resultant Parcel B (61.3 acres) and continue grazing operations, and potentially sell resultant Parcel C (20.23 acres) in the future or maintain it as open space; no development is proposed on any of the resultant parcels; and

WHEREAS, the project site is located in the Coastal Zone portion of the City, and the proposed LLA constitutes development, and therefore requires a Coastal Development Permit (CDP) pursuant to Eureka Municipal Code (EMC) §10-5.29302; and

WHEREAS, the City of Eureka has permit jurisdiction for issuing the CDP, and the CDP for the LLA is appealable to the State Coastal Commission; and

WHEREAS, the project site is zoned AC – Coastal Agriculture with an A – Agriculture land use designation, and an extremely small area at the northeast corner of the project site is located outside of the Coastal Zone; no changes to existing land uses are proposed as part of the LLA; and

WHEREAS, EMC Chapter 154: Subdivision Regulations gives authority for action on the LLA to the Development Services Director; no other discretionary permit is required for the proposed LLA, therefore the Director has authority to take action on the CDP at a public hearing pursuant to EMC §10-5.29304.6; and

WHEREAS, the CDP approval is a discretionary action subject to environmental review in accordance with the California Environmental Quality Act (CEQA); and

WHEREAS, the Director of Development Services of the City of Eureka did hold a duly noticed public hearing at Eureka City Hall in Conference Room 207 and via Zoom on Monday, November

13, 2023 at 10:00 a.m. to consider the subject CDP; and

WHEREAS, the Director of Development Services the City of Eureka has reviewed the subject application for the CDP in accordance with EMC Title 10, Chapter 5, and the certified Local Coastal Program, and after due consideration of all testimony, evidence, and reports offered at the public hearing, does hereby find and determine the following facts:

- A. The LLA as conditioned conforms with the policies of the certified Local Coastal Program.
- B. The proposed LLA is categorically exempt from the provisions of the California Environmental Quality Act (CEQA), in accordance with §15305, Minor Alterations in Land Use Limitation, Class 5 of the CEQA Guidelines. Class 5 consists of minor alterations in land use limitations in areas with an average slope of less than 20%, which do not result in any changes in land use or density, and do not create any new parcels. The area involved in the LLA has an average slope of less than 20% (at approximately 11%), the LLA will not change the current land use or density, and will not create any new parcels as it only reconfigures three parcels resulting in three parcels. Therefore, the proposed project is exempt from CEQA.

WHEREAS, in the opinion of the Director of Development Services of the City of Eureka, the proposed application for a Coastal Development Permit should be approved subject to the following conditions:

I. Effective Date of CDP. This Coastal Development Permit will not become effective until the subsequent Lot Line Adjustment (Project No. LLA-23-0001) is approved.

#### 2. Future Development Restriction for Resultant Parcel B.

- A. No development, as defined in §30106 of the Coastal Act, shall occur on resultant Parcel B, except for the following development, if all necessary permits and authorizations are obtained prior to development, including a Coastal Development Permit:
  - i. Agricultural operations limited to apiaries, field and truck crops, livestock raising and orchards;
  - ii. Wetland restoration and enhancement projects;
  - iii. Nature study and similar resource-dependent activities;
  - iv. Incidental public service purposes which may temporarily impact the resources of the area, such as burying cable and pipes; and
  - v. Agricultural accessory structures necessary for the performance of agricultural operations, except for farmer or farm employee-occupied housing or any other residential development. Agricultural accessory structures, and any necessary associated vehicular access thereto, must be located outside of wetlands, except for those structures, that because of their function, could not be concentrated in an upland location if one were available on Resultant Parcel B, such as bridges, cattle fencing, and irrigation equipment.
- B. Prior to recordation of the Notice of Lot Line Adjustment and Certificate of Subdivision Compliance document, the applicant shall submit to the City Attorney for

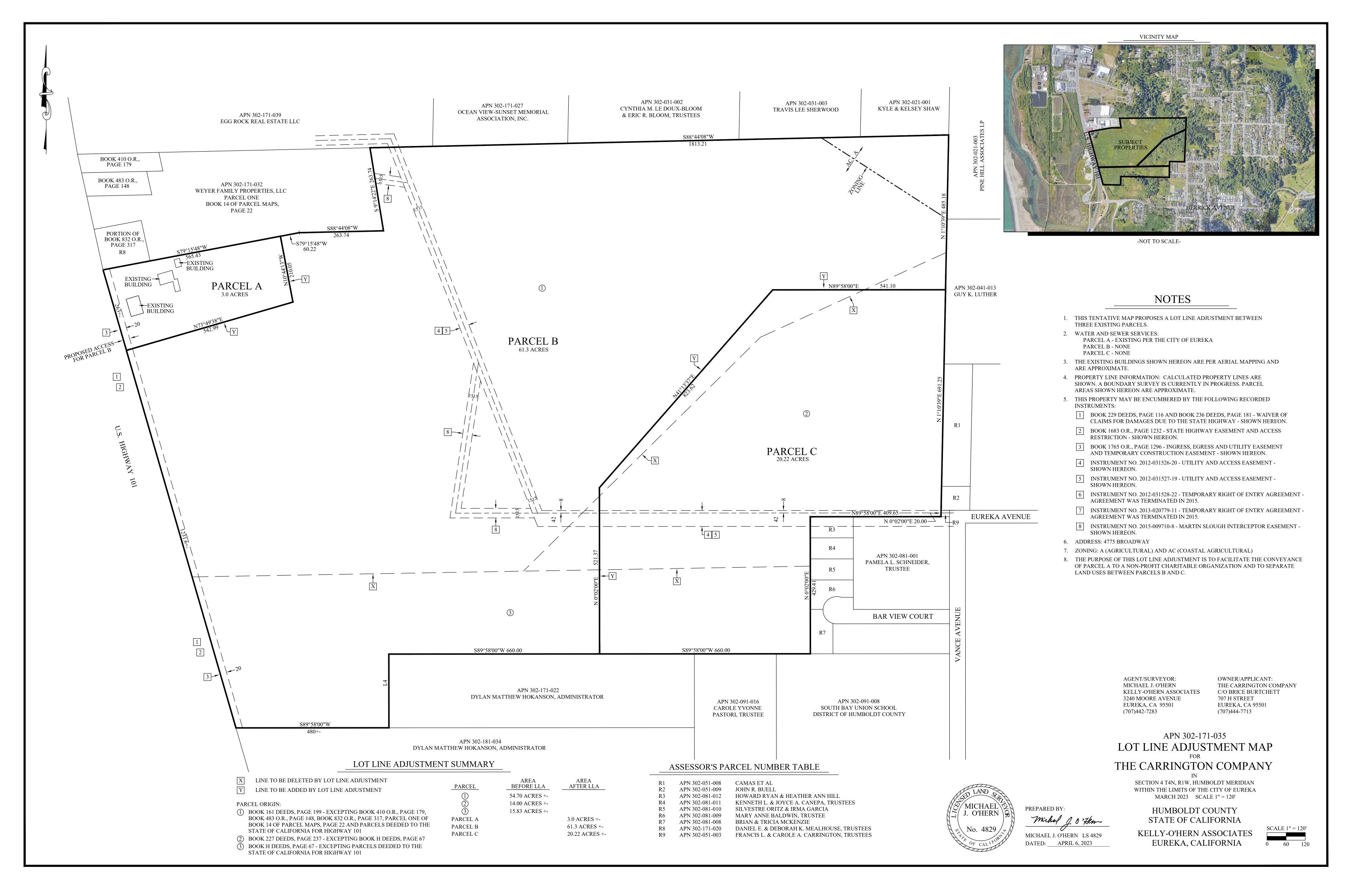
review and approval, documentation demonstrating the applicant has executed and recorded a restrictive land use covenant (i.e., deed restriction) against resultant Parcel B for the items outlined in condition 2.A above, in a form and content acceptable to the City Attorney.

3. Access Easement Over Resultant Parcel A for the Benefit of Resultant Parcel B. The applicant shall dedicate a non-exclusive ingress/egress access easement over resultant Parcel A for the benefit of resultant Parcel B by recording an a Notice of Future Easement or Access Easement (if resultant Parcel A is conveyed to Butler Valley, Inc. concurrently with recording the LLA), prior to, or concurrently with, the recordation of the of the Notice of Lot Line Adjustment and Certificate of Subdivision Compliance document; and, the applicant shall update the LLA map prior to recordation to clearly indicate the access easement, to the satisfaction of Public Works - Engineering.

NOW THEREFORE, BE IT RESOLVED the Director of Development Services of the City of Eureka does hereby approve the application, subject to the conditions listed above.

PASSED, APPROVED AND ADOPTED by the Director of Development Services of the City of Eureka in the County of Humboldt, State of California, on the 13 day of November, 2023.

Cristin Kenyon, AICP, Development Services Director





# **Wetland Delineation Carrington Company Subdivision**

4775 Broadway, Eureka, CA 95501

July 26, 2012



View looking south across the top of the subdivision site on July 23, 2012.

Prepared by: Streamline Planning Consultants

> For: The Carrington Company

### **TABLE OF CONTENTS**

	TABLE OF CONTENTS	i
1.	INTRODUCTION	. 1
2.	BACKGROUND	. 1
3.	BIOLOGICAL SETTING AND SCOPING	. 1
4.	METHODS	. 2
5.	LIMITATIONS	. 3
	5.1 Vegetation	. 3
	5.2 Soils	. 3
	5.3 Hydrology	. 3
6.	RESULTS AND DISCUSSION	. 4
	6.1 Wetland Areas	.4
	6.2 Potential Wetland Areas Revealed to be Upland	. 4
	6.3 Upland Areas	.5
	6.4 Overall Visual Assessment	.6
7.	RECOMMENDATIONS	. 6
8.	CONCLUSION	. 7
9.	REFERENCES	. 8
TΑ	BLE 1: Summary of Parameters Met at Each Sample Point	. 5
TΑ	BLE 2: Summary of ESHAs	.6
ΑT	TACHMENTS	. 9
	ATTACHMENT 1: Site Map	
	ATTACHMENT 2: Aerial Photograph	
	ATTACHMENT 3: Soil Health Assessment	
	ATTACHMENT 4: Photographs	
	ATTACHMENT 5: Field Data Sheets	

#### 1. INTRODUCTION

The Carrington Company Subdivision is a proposed four parcel subdivision located at the southern end of Eureka, California (Attachment 1). This report includes a detailed wetland delineation of the Carrington Company Subdivision to determine possible development boundaries and mitigation opportunities based on wetland and environmentally sensitive habitat area (ESHA) boundaries. The site-specific assessment for this report was performed by Streamline Planning Consultants on July 23 and 24, 2012. This delineation included thorough site evaluation using the Army Corps three parameters of hydrophytic vegetation, wetland hydrology and hydric soils. Table 1 lists which of these parameters were met at each assessment site.

#### 2. BACKGROUND

The project has been on hold since the Army Corps of Engineers requested a wetland delineation. On May 9, 2012, Streamline Planning staff scoped the site to ascertain the presence of wetlands or ESHAs. This scoping included walking the site and flagging likely boundaries based on visual field observations of vegetation, landforms and hydrology. Two transects were run from south to north, over which flags were placed at likely wetland boundaries. During this scoping, four ESHAs containing three wetlands were found within or adjacent to the site. With a significant area of dry upland available for development, the landowner decided to continue with a wetland delineation.

#### 3. BIOLOGICAL SETTING AND SCOPING

The Carrington site, located at 4775 Broadway in Eureka, CA, lies on Assessor Parcel Number 302-171-035, which comprises a shrub and grass landscape, as seen on the cover and aerial photograph (Attachment 2). The subdivision (upland) site is zoned Rural Residential, while the lower area of the property (bottomland) is zoned Coastal Agriclture (Humboldt County Web GIS Planning accessed via http://gis.co.humboldt.ca.us). The elevation at this site ranges from approximately 108 feet above sea level, down to 40 feet, at 40°45'34.66"N Latitude, 124°11'02.66"W Longitude. Annual rainfall at this site is approximately 40 inches (100cm). The vegetation type is primarily Palustrine Shrub Scrub, Riparian Scrub and Annual Grassland (Cowardin 1979). Jurisdiction for this site is within the City of Eureka and lies within the Coastal Zone.

This site lies on an old coastal terrace. The 1965 soil survey classified the upper portion of this property as residential, urban and industrial, while the new soil survey has not been performed at this site. An adjacent vegetated upland area is classified as the Larabee series under the old survey, so the soil at this site could be the Larabee series (McLaughlin and Harradine 1965). The lower portion of this property is classified as the Bayside Soil Series. While the soils were variable depending on topography and the degree of historical erosion, the common characteristics throughout the upland areas were sandy loam texture and deep, dark profiles. In wetland and adjacent areas, the surface horizon was dark, with heavy redoximorphic features found within 15 to 60 centimeters. A soil health assessment revealed that the overall health of the soil at this site is good (Attachment 3).

These gullies are filled with riparian plant species providing excellent habitat for a wide variety of bird species (Photo 1, Attachment 4). As rainwater infiltrates the terrace, it hits the lower, compacted layers where it flows laterally to the west. The subterranean water reaches the gullies where it comes close to, or even emerges from, the soil surface and flows downhill (Photo 2, Attachment 4). This water creates riparian/wetland habitat along the gullies (Photo 3, Attachment 4). In some areas of the site, the water table remains too deep to be classified as a Corps wetland, but deep-rooted riparian plants such as willow and ferns are able to grow on the site (Pits 9&10 and associated gully).

This site has historically been used for cattle grazing, extending into the wet season when hoof traffic had its maximum negative impact via erosion and soil compaction throughout the site, particularly in the streams (Photo 4, Attachment 4). Soil compaction leads to increased runoff volume and velocity, which degrades adjacent waterways. Furthermore, unrestricted access to the streams would allow animal feces and urine to enter streams directly. Bacterial, protozoan and viral pathogens can comprise biological pollution in these settings (Atwill et al. 2011). Additionally, concentrated animal traffic has led to areas favoring invasive species such as *Anthemis cotula* (Photo 5, Attachment 4).

#### 4. METHODS

On July 23, 2012, Streamline Staff traversed the site within, and adjacent to, the boundary of the development seeking additional potential wetlands that might have been missed in the May assessment. This assessment was conducted by looking for the criteria of geomorphic depressions, surface water or saturation and hydrophytic vegetation. One additional wetland was found in the northeastern corner of the property. Five areas, distributed somewhat uniformly around the site, met this examination criteria (Attachment 2).

This delineation was performed on July 23 & 24, 2012, in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual (Technical Report 87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountain Valleys, and Coast Region. At each sample site, the vegetation was surveyed and analyzed using the dominance test, with the 2012 National Wetland Plant List (Lichvar & Kartesz 2009) used to determine wetland indicator status. At pits where the dominance test resulted in 50%, the prevalence index was used. Wetland hydrology and hydric soil indicators were then assessed. An 18 inch-deep hole was dug and soils were examined for matrix (base) color and redox (reduction/oxidation reaction) color using the Munsell Soil Color Charts (Munsell Color 2000). Redox characteristics, texture, horizon depth, saturation depth and water table depth were also examined. Field observations were recorded on the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Western Mountain Valleys, and Coast Region data sheets (Attachment 5).

A total of 15 pits were dug and described throughout the site (Attachment 2). Pits 1, 2, 7 and 8 were dug in upland areas to characterize the upland soils and for comparison to the wetland soils. Additionally, pits 2, 7 and 8 were dug in areas where apparent wetland vegetation indicated the potential for wetland conditions to be present on the uplands (Photos #7 & 8). The remaining pits were in or adjacent to likely wetland sites. A number of other unrecorded pits were dug to quickly ascertain

the similarity with the upland versus the wetland pits to help determine the wetland boundaries. The difference between upland pits and wetland pits was easily delineated at this site (Photos 9 & 10, respectively).

#### 5. LIMITATIONS

There are problems associated with all three wetland parameters, which can give a false positive indication of wetland presence. Conversely, sometimes one or two of the parameters are not met when a site is an obvious wetland. These facts often leave an experienced professional with using best judgment to determine if a wetland is present.

#### 5.1 Vegetation

As seen on the Davison Ranch north of Orick, purchased by Redwood National and State Parks, the hydrophytic vegetation parameter is often misleading in coastal Humboldt County. In some cases, obligate species (those requiring wetland conditions) are found dominating upland areas (Popenoe 1996). Plants listed as facultative (found in wetlands 34-66% of the time) are often more typical of upland areas on the coast. Two examples of this occurrence include *Festuca (Lolium) perenne* (Italian ryegrass) and *Holcus lanatus* (velvet grass). Moderate temperatures and regular heavy fog and stratus layers combine with relatively high annual rainfall to create an environment favorable for wetland indicator species to grow where wetland hydrology and hydric soils do not exist. The lack of these parameters is due to the absence of the seven consecutive day inundation, during five out of ten years, required to meet the definition of a wetland.

#### 5.2 Soils

Soils often exhibit hydric soil features when a wetland is absent. This phenomenon can result from a previously wet area being drained, after which hydric soil features remain, as well as from irrigation or livestock compaction (Popenoe 1996). Geologic uplift can cause this effect as well. Urban settings can replicate these scenarios with prior construction-induced compaction and roof runoff. These types of sites can revert back to non-wetland conditions after several years of bio-disturbance. This site was heavily grazed until 2011, as evidenced by severely compacted areas and the heavily hoof-marked landscape (Photo #6, Attachment 4). This compaction can complicate wetland determinations. Furthermore, low-chroma soils due to high organic matter loads from dense vegetative growth complicate the detection of soil redoximorphic features.

#### 5.3 Hydrology

The problem with wetland hydrology is that the inspector must try to determine if the observed hydrology is normal. Both dry and wet extremes can give false perceptions of the normal hydrology at a site. The month of April was at approximately 143% of normal rainfall, while the March total was 227% and the June total was 267% of normal rainfall (NOAA 2012). This excessive rainfall creates the potential to exhibit false positive wetland hydrology indicators. Soil conditions such as compaction can also give

false positive results for wetland hydrology. At this site, however, the July delineation showed little difference from the May assessment, revealing consistent hydrology indicators.

#### 6. RESULTS AND DISCUSSION

#### 6.1 Wetland Areas

Four jurisdictional wetlands were found in the study area (Table 1 and Attachment 2). The four wetland areas are visually revealed by either surface water or saturation, along with hydrophytic vegetation and geomorphic position (photos 2 & 3). A total of six wetland pits were dug, with wetland Pits 6, 11 and 12 in the same wetland. Pit #s 3, 4, 6, 11, 12 and 15 fell into this category. Generally the presence of hydric soil indicators corresponded well with surface hydrology, hydrophytic vegetation and geomorphic position, all of which were found at the wetland pits (Photos 11-14, respectively).

#### 6.2 Potential Wetland Areas Revealed to be Upland

The only exception to this correspondence between wetland parameters was the presence of hydrophytic vegetation at Pit #s 2, 8, 10, 13 and 14, where wetland hydrology and hydric soils were lacking (Photo #s 14 & 15). These pits represented areas that appeared to be potential wetlands when looking at the vegetation, but lacked the obvious hydrology. These areas included slumps and the areas below the terrace slope breaks where large patches of sedge or *Equisetum* were found. Examination of soil pits at these sites revealed a lack of wetland hydrology or hydric soils.

As discussed in Section 4.1, hydrophytic vegetation is the least reliable parameter in coastal Humboldt County, particularly when dealing with facultative species (Joe Seney, Soil Science and Geology Lead, Redwood National and State Parks, personal communication, 2/21/12). Many of these plants thrive on sandy loam uplands. When these facultative plants are found in areas with no wetland hydrology or hydric soils, they are not indicative of wetlands. This situation is further aggravated by cowpaction, which is a recently coined NRCS term for compaction caused by cattle continuously grazing the site during wet weather. This compaction decreases infiltration, allowing plants associated with wetlands to grow where they might have been out-competed under natural conditions. Furthermore, as rodents and plant growth decompact the soil upon removal of livestock, this condition may be reversed.

Additionally, the proximity to the wetland area near Pits 13 and 14, as well as the swale near Pit 10, allow groundwater to exist approximately 18 inches below the soil surface during the summer, below the 12 inches required to cause hydric soil indicators or wetland hydrology to develop (Photo #15). This water, however, is easily accessed by the deeper roots of many facultative plants. Pit 2 was found below a slope break where sedges were growing, while Pit 5 was adjacent to wetland Pit 4, but slightly higher in elevation. Site inspection revealed that these five pits are not functioning as wetlands or wetland habitat.

Pits 5 and 9 revealed visual wetland potential similar to Pits 2, 8, 10, 13 and 14 due to apparent hydrophytic vegetation (and geomorphic position at pit 9). Delineation revealed a lack of indicators for

all three wetland parameters. Pit 9 was found in a branch of the ravine where Pit 10 was located. Silverweed was growing in Pit 9, which gave the appearance of a wetland. Pit 8 was in a slump full of horsetail. Like Pits 2, 5 and 9, it did not have hydric soils or wetland hydrology. The slump itself was likely related to historic grazing, compaction and erosion.

Pits 9, 10, 13 and 14, while not classified as wetlands, lie within areas of geomorphic position and riparian habitat that make them valuable for both wildlife habitat and groundwater protection. Groundwater in these areas makes its way to the surface at the base of the hill, where it enters the wetlands below. This function and proximity make these pits important to protect.

Table 1. Summary of Parameters Met at Each Sample Point					
Sample Point	Hydrophytic Vegetation	<u>Hydric Soil</u>	<u>Wetland</u> <u>Hydrology</u>	<u>Jurisdictional</u> <u>Wetland</u>	
WD#1					
WD#2	V				
WD#3	V	٧	٧	٧	
WD#4	V	٧	٧	V	
WD#5					
WD#6	V	٧	٧	٧	
WD#7					
WD#8	V				
WD#9					
WD#10	V				
WD#11	V	٧	٧	٧	
WD#12	V	V	٧	٧	
WD#13	V				
WD#14	V				
WD#15	٧	٧	٧	٧	

#### 6.3 Upland Areas

Pits 1 and 7 were dug in obvious upland areas. These areas were covered with grass on the upper terrace and slightly below the shoulder, respectively. Profile examination revealed a complete absence of hydric soil or wetland hydrology indicators. While the wetland pits had saturated soils, these upland pits were completely dry. *Equisetum* at Pit 7 gave the appearance of wetland potential, but did not constitute hydrophytic vegetation.

#### 6.4 ESHAs and Overall Visual Assessment

On June 28, 2012, a site visit was conducted with the City of Eureka Community Development Director and a California Department of Fish and Game (DFG) environmental scientist. The primary DFG concern is that it is not just the wetlands that are sensitive, but the entire brush-filled ravines (Photo 16). These ravines comprise riparian habitat that intermittently dissects the upland habitat. These riparian corridors not only provide excellent wildlife habitat, but provide critical ecological function to maintain clean water, particularly since they are the headwaters for the wetlands and bay below. These areas are vulnerable because residents could dump lawn clippings or trash into the ravines, as well as use them for recreational purposes like all terrain vehicle routes. Since these areas are sensitive to soil compaction, vegetation removal, increased strormwater runon or pollution, the riparian habitat associated with the wetland areas, including the ravine and associated riparian habitat found at Pits 9 and 10 (which classified as upland), needs to be protected. The five ravines comprising this riparian habitat were classified as ESHA #s 1-5, with #1 at the northeastern corner of the development, wrapping around to #5 at the southwestern end of the development (Attachment 2 and Table 2).

	Table 2. Summary of ESHAs					
ESHA Location		Pits Contained	<u>Hydrophytic</u> <u>Vegetation</u>	<u>Hydric</u> <u>Soil</u>	<u>Wetland</u> <u>Hydrology</u>	<u>Jurisdictional</u> <u>Wetland Present</u>
#1	#1 Northeastern corner/ Parcel 1; 40°45'40.67"N, 124 10'52.99"W 1,2,		٧	٧	٧	٧
#2	Mid-north; 40°45'41.18"N, 124°10'57.13"W	4,5	٧	٧	٧	٧
#3	Northwest/central area; 40°45'39.99"N, 124°10'59.10"	6,7,11,12,13,14	٧	٧	٧	٧
#4	Midwest/Parcel 3; 40°45'37.78N, 124°11'01.24"W	0. 3. 10				
#5	South/Parcel 4; 40°45'35.75"N, 124°11'01.57"W	15	٧	٧	٧	٧

#### 7. RECOMMENDATIONS

The DFG expressed there could be compatible development at this site as long as the ESHAs are protected. This protection should include the use of low impact development (LID) practices and 100 foot buffers between ESHAs and hardscapes where possible. Additionally, habitat disturbing influences, such as floodlights or street lights should be avoided. While the legal wetlands have been delineated in this report, the actual areas to be protected (ESHAs) will be slightly expanded to include the surrounding riparian vegetation below the slope breaks of the ravines (Attachment 2). This includes the ravine in ESHA zone 4, which contains no wetland. The hundred foot buffers will begin at the outer boundaries of these riparian ESHAs, rather than the boundaries of the wetlands. Additionally, split-rail fencing should be installed around these ESHAs to delineate them and discourage disturbances such as foot, bike or motorcycle traffic. The easement description, parcel maps and new deeds should delineate these ESHAs and describe prohibitions within both the ESHAs and their buffers to incorporate

protection into the project.

The corner of the proposed access road at the northeastern corner of Parcel 3, including the sidewalk, protrudes approximately 50 feet into the 100 foot buffer of ESHA 3. It is recommended that an area equal to the infringing hardscape be planted with native vegetation approximately 280 feet northwest of the northwest corner of adjacent parcel number 302-081-012 to mitigate for the buffer infringement (see Attachment 2). Since there will be no actual loss of habitat, only a buffer infringement, this 1:1 mitigation will be a net gain of riparian habitat. A bioswale vegetated with native perennial bunchgrasses should run along the outside of the sidewalk to infiltrate any additional runoff produced by the access road.

#### 8. CONCLUSION

The proposed development contains enough land outside of the jurisdictional wetlands and ESHAs to construct approximately four residential units. To protect these sensitive areas, the following conditions should be required:

- 1. The four lots should be reconfigured to maximize hardscape on the areas shown outside of the ESHA buffer on the map.
- 2. The five ESHAs should be protected with split-rail fences placed 50 feet out from the ESHA boundaries.
- 3. LID practices such as permeable pavement and bioswales should be used in development to match post development runoff with pre-development runoff.
- 4. 100 foot buffers should be maintained around ESHAS where feasible; if hardscapes must enter ESHA buffers, an equal area should be planted with riparian vegetation as close to the encroachment as possible
- 5. The easement description, parcel maps and deeds should delineate the ESHAs and describe prohibitions within the ESHAs as well as within their associated buffers. Prohibitions in the ESHAs would include activities such as lighting that shines on natural areas, disposal of green waste or any motor vehicle usage.

Four jurisdictional wetlands were found on this site. These wetlands were easily located by visual inspection and confirmed during the wetland delineation. The riparian vegetation in which these wetlands were found comprises environmentally sensitive habitat that needs to be protected. An additional sensitive habitat area was located on the western edge of Parcel 3. This ESHA appeared similar to the others, but lacked the hydric soil and wetland hydrology indicators to meet the wetland designation.

Apparent wetlands with *Equisetum* and sedge below slope breaks are not wetlands, but are likely the result of cowpaction decreasing the drainage and aeration of the soils in these areas, or aspect which reduces evapotranspiration and soil drying. Additionally, historic grazing likely decreased the amount of topsoil due to erosion on these sloped areas. Topsoil reduction leaves the less aerated subsoil closer to the surface or even exposed.

All five ESHAs have groundwater within 18 inches of the soil surface during the summer, as well as excellent wildlife habitat. Cattle grazing on this upper site is a poor use of the land due to the amount of ESHA on the proposed development area. Installing buffers around the ESHAs will protect the soils around all of the pits examined in this delineation, except for upland Pit #1. If the above recommendations are incorporated into this project, a low impact development at this site will afford an opportunity to protect the five ESHAs, as well as the wetlands below.

#### 9. REFERENCES

Atwill, E.R., Partyka. M. L., Bond, R.F., Li, X., Xiao, C., Carle, B., & Kiger, L. E. 2011 An introduction to waterborne pathogens in agricultural watersheds. Natural Resources Conservation Service, United States Department of Agriculture.

Cowardin, L.M., V. Carter, F.C. Golet, E.T. LaRoe, 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

Lichvar, R.W. and J. T. Kartesz. 2009. North American Digital Flora: National Wetland Plant List, version 2.4.0 (https://wetland\_plants.usace.army.mil). U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC.

McLaughlin and Harradine. 1965. *Soils of Western Humboldt County California*. Department of Soils and Plant Nutrition, University of California, Davis and County of Humboldt, California.

Munsell Color. 2000. Munsell Soil Color Charts. Gretamacbeth. New Windwor, NY.

National Oceanic and Atmospheric Administration. Observed Weather, Eureka. Visited 4/19/12 online at: http://www.nws.noaa.gov/climate/index.php?wfo=eka

Popenoe, J.H. 1996. *Delineation of Jurisdictional Wetlands at the Davison Ranch Acquisition*. Redwood National and State Parks.

#### **ATTACHMENTS**

ATTACHMENT 1: Site Map

ATTACHMENT 2: Aerial Photograph

ATTACHMENT 3: Soil Health Assessment

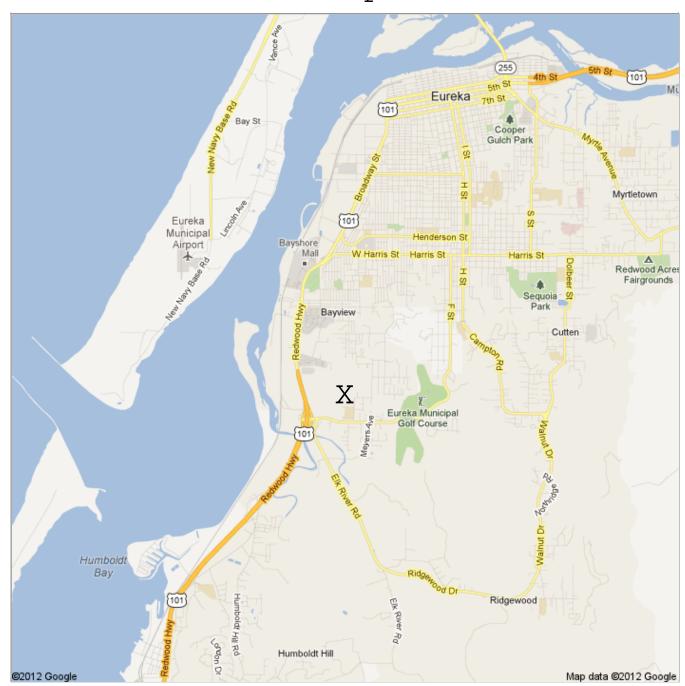
ATTACHMENT 4: Photographs

**ATTACHMENT 5: Field Data Sheets** 

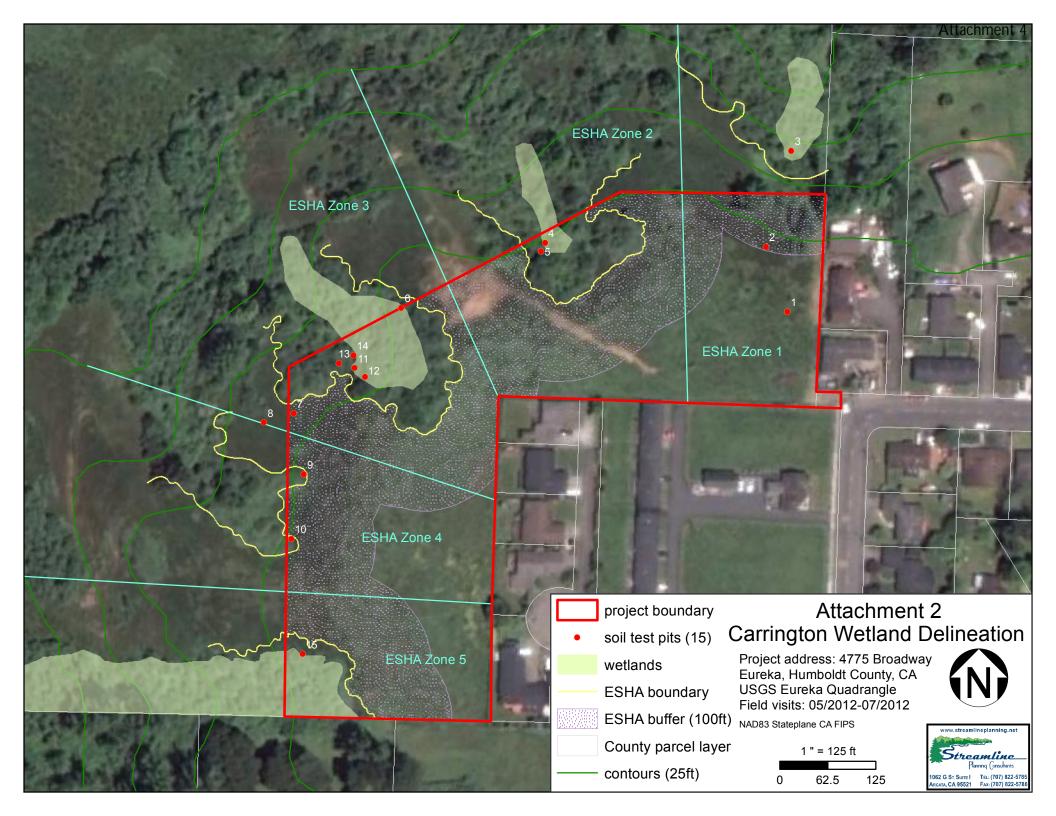




# ATTACHMENT 1. Site Map



X = Project Site



# ATTACHMENT 3: Soil Health Assessment

#### Soil Health

Soil	Health	Check-up
------	--------	----------

Soil Series NA	Location Carry lu	· Proper	My and Use Grazing	up to 2011	
<u>Parameter</u>	Criteria	<u>Value</u>	Score		
I. Soil Depth	>90 cm 60-90 cm <60	10 4 2	10		
2. A horizon (cm)	>6 cm 4-6 cm <4 cm	10 4 2	10		
3. pH	6.0-7.5 <6.0 >7.5	10 4 2	4		
4. Humus % (Estimated)	>3% 1-3% <1%	10 4 2	10		
5. Structure	Granular Fine Granular Structureless/compacted	10 5 2	10		
6. Texture (Feel)	10-40% clay >40% clay <10% clay	10 4 2	N		
7. Biomass (Harvest Ring)	>2500 lbs/ac 1000-2000 <100	10 4 2	10		
8. Slope (Clinometer)	<2% 2-8% >8%	10 4 2	4		
9. Mottles	None in top 90 cm Mottles 60-90cm Mottles in top 60 cm	10 4 2	[0]		
10. Bioactivity	Worm signs, ants present No worm signs No organisms present	10 4 2	[0]		
11. Health Check (Adjustment)	Severe erosion evident > 10% stoniness Subject to flooding	-10 -10 -10			
Add points in boxes 1-10 and subtract box 11 to get Soil Health Score.  Soil Health Check Score  (70-(00))					

Use the Health Guide below to get rating: Soil Health Rating

Good (70-100)

70-100=good, 40-70=moderate, 0-40=poor

# ATTACHMENT 4: Photographs



Photo 1. Ravine top showing geomorphic position, hydrophytic vegetation and wildlife habitat.



Photo 3. Hydrophytic vegetation at Pit #11.



Photo 5. Invasive Anthemis cotula revealing livestock-induced compaction.



Photo 2. Obvious wetland hydrology at Pit #3.



Photo 4. Cowpaction preventing plant growth.



Photo 6. Compacted cow trail where grass barely grows during height of growing season.



Photo 7. Sedge growing on upland below slope break.



Photo 9. Loamy Mucky Mineral revealing wetland.



Photo 11. Loamy Mucky Mineral with gleyed subsoil indicating hydric soil.



Photo 8. Equisetum growing below slope break.



Photo 10. Dark red upland soil with no indicators.



Photo 12. Surface water and iron deposit wetland hydrology indicators.



Photo 13. Hydrophytic vegetation including skunk cabbage.



Photo 14. Geomorphic position at head of ravine (ESHA #4).



Photo 15. Groundwater too deep to form hydric soil or meet wetland hydrology indicator status.



Photo 16. Slope break dropping into ravine above Pit #s 11-14 showing beginning of riparian habitat.

July 26, 2012 [Final Report]

# **ATTACHMENT 5: Field Data Sheets**

Note: Landform, Section, Township & Range are the same for all sheets; as such they are only listed on sheet 1.

Project/Site: 4775 Broadway Eurella, CA	City	County: Eurel	Kg/Humbold+ Sampling Date: 7/23/12
Applicant/Owner Cutting a tun Changer		<u> </u>	State: ( A Sampling Point: # 1
Application Susa Poll 4 Surah Call	dwell so	tion Tournahin Pan	SEK NEK SECY TYN RIW HI
Territoria Territoria Cara	(Sum to A)	alon, Township, Kan	State: CA Sampling Point: # 1  nge: SEH, NEXI SECY, THN, RIW HI  convex, none): Convex Slope (%): 4
Landform (hillslope, terrace, etc.): 10114 CE 1011	Comman Loc	cal relief (concave, c	Long: 12 4° (0'52 99"W Datum: WG 584
		15 70.67 W	
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical for the	nis time of year?	Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly dist	urbed? Are "I	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_naturally probler	matic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sa	mpling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		_
Hydric Soil Present? Yes	No	is the Sampled	d? Yes No
Wetland Hydrology Present? Yes			
Remarks: "Normal" conditions exist,	but inclu	de recent	cattle grazing & associated
compaction.			
VEGETATION – Use scientific names of pla	ınts.		
Trans Charles (Dist size)		ominant Indicator	Dominance Test worksheet: 49//9,6
Tree Stratum (Plot size:) 1		oecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.			Total Number of Dominant
3			Species Across All Strata: (B)
4	=	Γotal Cover	Percent of Dominant Species 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 x 1 =
3			FACW species x 2 =
4			FAC species x 3 =
5		T-4-1 O-11-11	FACU species x 4 =
Herb Stratum (Plot size: 5 diam)	=		UPL species x 5 =
1 Dactalis glomerate	20	V FACY	Column Totals: (A) (B)
2. Holcus lanatus	10	FAC	Prevalence Index = B/A =
3. Anthoxanthum oderatum	15	FACY	Hydrophytic Vegetation Indicators:
4. Agrostis stolenifery	<u> 30 i</u>	PAC	1 - Rapid Test for Hydrophytic Vegetation
5. Rumer Crispus		FAC	2 - Dominance Test is >50%
6. Rumex acetosella	6	FACU	3 - Prevalence Index is ≤3.0¹
7. Plantago lanceolata		EKY	4 - Morphological Adaptations (Provide supporting
8. Trifolium pratense		FACY	data in Remarks or on a separate sheet)
9. Festuca perennis (Lolium)		FAC	5 - Wetland Non-Vascular Plants <sup>1</sup>
10. Aster Chilensis		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
11	_ <del></del> _	- walet	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	<u>/ \&amp;_</u> = T	Total Cover 19/19.6	
1			Hydrophytic
2.			Vegetation
		Total Cover	Present? Yes No
% Bare Ground in Herb Stratum			
Remarks:			

0-2.4" 10 YR 2/1 100 2.4-9.6" 10 YR 3/2 1 9.6-18" 7.5 YR 3/3	)	<i>-1</i>
24-96" 107R 3/L		5 <i>L</i>
	•	<u> </u>
	Marie and American Am	
	Processing to the processing t	
•		
1Type: C-Concentration D-Depletion E	PM-Paduard Matrix, CS-Covered or Coated Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	RM=Reduced Matrix, CS=Covered or Coated Sand G	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	from historic wet-seasa	Hydric Soil Present? Yes No
HYDROLOGY  Wetland Hydrology Indicators:	short all all all the steem had	Cooperatory Indicatory (2 or more required)
Primary Indicators (minimum of one requ		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
<ul><li>Sediment Deposits (B2)</li><li>Drift Deposits (B3)</li></ul>	<ul><li>Hydrogen Sulfide Odor (C1)</li><li>Oxidized Rhizospheres along Living Ro</li></ul>	Saturation Visible on Aerial Imagery (C9) cots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A	
Inundation Visible on Aerial Imagery		Frost-Heave Hummocks (D7)
•		
Sparsely Vegetated Concave Surface		
Sparsely Vegetated Concave Surfactive Sparsely Vegetated Concave Sparsely Veget	No Depth (inches):	
Field Observations:		
Field Observations: Surface Water Present?  Yes	No Depth (inches):	· /
Field Observations: Surface Water Present?  Water Table Present?  Yes	No Depth (inches): Wet	tland Hydrology Present? Yes No V
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	No Depth (inches): Wet	tland Hydrology Present? Yes No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	i i	
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	No Depth (inches): Wet	
Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	No Depth (inches): Wet	
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	No Depth (inches): Wet	
Field Observations:  Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gauge,	No Depth (inches): Wet	

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region 4775 Broadway City/County: EUa/Hum Sampling Date: 7/23 Applicant/Owner: Carrington State: A Sampling Point: Investigator(s): Sp4 5Z Section, Township, Range: \_\_\_\_ Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Mear Slope (%): NWI classification: Soil Map Unit Name: \_\_\_ Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Consaction severe on the upper grasslands Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species x 4 = = Total Cover UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Herb Stratum (Plot size: \_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prevalence Index = B/A = Anthox anthom o. Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) \_\_\_ 5 - Wetland Non-Vascular Plants<sup>1</sup> \_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 10. <sup>1</sup>Indicators of hydric soil and wetland hydrology must 94 = Total Cover 47/186 be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: \_\_\_\_) 1. Hydrophytic Vegetation

\_\_\_\_= Total Cover

Present?

% Bare Ground in Herb Stratum

epth nches)	Matrix Color (moist)	%	Redox Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
1-8,4"	104R 3/2	100			/ F. Z		<	
1- 18"	104R 4/3	93	10 YR 4/6	1	<u> </u>	PL	1	
10	0.5/	· <del>-     -   -   -   -   -   -   -   -   </del>	10 /12 90			- Con-	1,	Kroto Vinas
	107R 312							V (610 010.43
-	-							
					· ——		4	
			Reduced Matrix, CS			d Sand Gra	ains. <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix.
dric Soil Ir	ndicators: (Applic	able to all L	_RRs, unless other		ed.)			ors for Problematic Hydric Soils <sup>3</sup> :
. Histosol (	` '	-	Sandy Redox (S					m Muck (A10)
	ipedon (A2)	-	Stripped Matrix		45 (	AN DA 4\		l Parent Material (TF2)
Black His		-	Loamy Mucky M			: MLRA 1)		y Shallow Dark Surface (TF12)
	n Sulfide (A4)	- (A11)	Loamy Gleyed N		2)		00	er (Explain in Remarks)
	l Below Dark Surfac irk Surface (A12)	e (ATT)	Depleted Matrix Redox Dark Sur		\		3Indicate	ors of hydrophytic vegetation and
_	lucky Mineral (S1)	-	Nedox Dark Sur Depleted Dark S					and hydrology must be present,
	leyed Matrix (S4)	-	Redox Depressi					ss disturbed or problematic.
	ayer (if present):			· · · · · · /				·
Type:	, , ,							1
							Hydric Soil	Present? Yes No
Depth (ince	567	l Can,	pades 4	- Du	np.y	fre	n 91	uzing
Depth (incommarks:	567		putes A	- Su	np g	Free		
Depth (incomarks:  DROLOGetland Hyde	S&\(\cdot\)		pades 7		np eg	Free	Seco	ndary Indicators (2 or more required)
Depth (incomerks:  DROLOGetland Hydelimary Indica	S&\(\cdot\)			y)			Seco	ndary Indicators (2 or more required) Vater-Stained Leaves (B9) ( <b>MLRA 1, 2</b>
Depth (incomarks:  DROLOGetland Hydimary Indicate Number 1   1   1   1   1   1   1   1   1   1	GY  drology Indicators eators (minimum of o		: check all that apply Water-Stai MLRA	/) ned Leav <b>1, 2, 4A,</b>	/es (B9) (e		<u>Seco</u> V	ndary Indicators (2 or more required) Vater-Stained Leaves (B9) ( <b>MLRA 1, 2</b> <b>4A, and 4B)</b>
DROLOG etland Hyd imary Indica Surface \ High Wat Saturatio	GY drology Indicators eators (minimum of of Water (A1) eter Table (A2) on (A3)		; check all that apply Water-Stai MLRA Salt Crust	/) ned Leav <b>1, 2, 4A,</b> (B11)	/es (B9) (e and 4B)		<u>Seco</u> V	ndary Indicators (2 or more required) Vater-Stained Leaves (B9) ( <b>MLRA 1, 2</b> <b>4A, and 4B)</b> Drainage Patterns (B10)
DROLOG etland Hyd imary Indica Surface \ High Wat Saturatio	GY drology Indicators eators (minimum of of Water (A1) eter Table (A2) on (A3)		: check all that apply Water-Stai MLRA	/) ned Leav <b>1, 2, 4A,</b> (B11)	/es (B9) (e and 4B)		Seco V [	ndary Indicators (2 or more required) Vater-Stained Leaves (B9) ( <b>MLRA 1, 2</b> <b>4A, and 4B)</b> Drainage Patterns (B10) Dry-Season Water Table (C2)
DROLOG etland Hyd imary Indica Surface N High Wat Saturatio Water Ma Sedimen	GY drology Indicators eators (minimum of of Water (A1) eter Table (A2) on (A3) earks (B1) et Deposits (B2)		; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv	/) ned Leav 1, 2, 4A, (B11) /ertebrate Sulfide O	ves (B9) (e and 4B) es (B13) odor (C1)	xcept	Seco V E E	ndary Indicators (2 or more required) Water-Stained Leaves (B9) ( <b>MLRA 1, 2</b> <b>4A, and 4B)</b> Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Depth (incomarks:  DROLOG etland Hyd imary Indica Surface \ High Wat Saturatio Water Ma Sedimen Drift Dep	GY drology Indicators eators (minimum of		: check all that apply  — Water-Stai  MLRA  — Salt Crust  — Aquatic Inv  — Hydrogen — Oxidized F	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O	ves (B9) (e and 4B) es (B13) odor (C1) eres along	xcept Living Roo	Seco V [ [ [ 5] ts (C3) (	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
DROLOG etland Hyd imary Indica Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma	GY  drology Indicators eators (minimum of of Water (A1) eter Table (A2) on (A3) earks (B1) et Deposits (B2) eosits (B3) et or Crust (B4)		: check all that apply Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduc	/es (B9) (e and 4B) es (B13) edor (C1) eres along ed Iron (C-	xcept Living Roo 4)	Seco V E E S	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C) Geomorphic Position (D2) Shallow Aquitard (D3)
DROLOG  etland Hyd imary Indica Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep	GY  drology Indicators eators (minimum of of the content of the co		; check all that apply Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduce	ves (B9) (e and 4B) es (B13) odor (C1) eres along ed Iron (Co	xcept Living Roo 4) d Soils (C6	Seco  V  L  C  L  S  ts (C3)   S  S	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incomarks:  DROLOG  etland Hyd  imary Indica  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep  Algal Ma  Iron Depo  Surface S	GY  drology Indicators eators (minimum of	one required	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of  Recent Iro  Stunted or	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Reduct Stressed	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (C- tion in Tille	xcept Living Roo 4) d Soils (C6	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
DROLOG etland Hyd imary Indica Surface N High Water Ma Sedimen Drift Dep Algal Ma Iron Depo Surface S Inundation	GY  drology Indicators eators (minimum of	one required	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of  Recent Iro  Stunted or  Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Reduct Stressed	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (C- tion in Tille	xcept Living Roo 4) d Soils (C6	Seco	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incomarks:  DROLOG etland Hyde mary Indication Surface V High Water Ma Saturation Water Ma Sedimen Drift Dep Algal Ma Iron Depo Surface S Inundation Sparsely	GY  drology Indicators eators (minimum of	one required	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of  Recent Iro  Stunted or  Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Reduct Stressed	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (C- tion in Tille	xcept Living Roo 4) d Soils (C6	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
DROLOG etland Hyd imary Indica Surface N Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Surface S Inundatic Sparsely	GY  drology Indicators eators (minimum of	one required Imagery (B7	; check all that apply Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro Stunted or Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressect Stressect Stain in Re	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (C- tion in Tille d Plants (C- emarks)	xcept  Living Roo 4) d Soils (C6 11) (LRR A)	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Depth (incomarks:  DROLOG  etland Hyd imary Indica Surface N High Water Ma Sedimen Drift Dep Algal Ma Iron Depo Surface S Inundatica Sparsely eld Observariace Water	GY  drology Indicators eators (minimum of of the content of the co	one required Imagery (B7 e Surface (E	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of Recent Iro  Stunted or  Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressed olain in Re	ves (B9) (e and 4B) es (B13) odor (C1) eres along ed Iron (Cition in Tille d Plants (Cition in Tille	xcept Living Roo 4) d Soils (C6	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Depth (incomarks:  DROLOG  etland Hyd imary Indica Surface N High Water Ma Sedimen Drift Dep Algal Ma Iron Depo Surface S Inundatica Sparsely eld Observariace Water	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of  Recent Iro  Stunted or  Other (Exp  38)	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed olain in Re	ves (B9) (e and 4B) es (B13) ed (C1) eres along ed Iron (C- tion in Tille d Plants (C- emarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco V E 5 ts (C3) 6 5 ) F	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Depth (incommarks:  DROLOG  etland Hyd  imary Indica  Surface N  High Water Ma  Sedimen  Drift Dep  Algal Ma  Iron Depo  Surface S  Inundatio  Sparsely  eld Observ  urface Water  /ater Table laturation Pr	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of Recent Iro  Stunted or  Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed olain in Re	ves (B9) (e and 4B) es (B13) ed (C1) eres along ed Iron (C- tion in Tille d Plants (C- emarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco V E 5 ts (C3) 6 5 ) F	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Depth (incommarks:  DROLOG  etland Hyd  mary Indication  Surface Notes and the second of the second	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E /es N /es N	check all that apply	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressec olain in Re ches): ches): ches):	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (Cition in Tille d Plants (Cemarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Depth (incomarks:  DROLOG  etland Hyd imary Indica Surface N High Water Ma Sedimen Drift Dep Algal Ma Iron Depo Surface S Inundation Sparsely etd Observer atter Table laturation Princludes cap	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E /es N /es N	; check all that apply  Water-Stai  MLRA  Salt Crust  Aquatic Inv  Hydrogen  Oxidized F  Presence of  Recent Iro  Stunted or  Other (Exp  38)	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressec olain in Re ches): ches): ches):	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (Cition in Tille d Plants (Cemarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
DROLOG  etland Hyd imary Indica Surface N Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Surface S Inundatica Sparsely eld Observ irface Water ater Table Inturation Procludes cap escribe Rec	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E /es N /es N	check all that apply	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressec olain in Re ches): ches): ches):	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (Cition in Tille d Plants (Cemarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
DROLOG  etland Hyd imary Indica Surface N High Water Ma Sedimen Drift Dep Algal Ma Iron Depi Surface S Inundatio Sparsely eld Observer atter Table of the sturation Priciples cap	GY  drology Indicators eators (minimum of	Imagery (B7 e Surface (E /es N /es N	check all that apply	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct Stressec olain in Re ches): ches): ches):	ves (B9) (e and 4B) es (B13) dor (C1) eres along ed Iron (Cition in Tille d Plants (Cemarks)	Living Roo 4) d Soils (C6 1) (LRR A)	Seco	ndary Indicators (2 or more required)  Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)

Project/Site: 4775 Broadway, Eurell	4, CA (	City/Cou	nty: <u>Eyre</u>	ka/Mum	_ Sampling Date:	7/3//
Applicant/Owner: Carch ston Company				State: <u> </u>	_ Sampling Point:	<u>#3</u>
Investigatoris):		secuon.	TOWNSHID, Ra	nde: "		
Landform (hillslope, terrace, etc.):Subregion (LRR):		Local re	lief (concave,	convex, none):	Slo	pe (%): <u>2 5</u>
Subregion (LRR):	Lat: <u>40</u>	° 45'	42.41"N	Long: <u>124° /0' S</u>	3,23" Datu	ım:
Soil Map Unit Name:				NWI classif		
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Yes	No _	(If no, explain in l	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed	d? Are "	'Normal Circumstances"	present? Yes L	No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	? (If ne	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sampl	ling point l	ocations, transect	s, important fe	eatures, etc
Hydrophytic Vegetation Present? Yes <u>✓</u> ١						
Hydric Soil Present? Yes 1			the Sampled	l Area	No	
Wetland Hydrology Present? Yes N	Vo	w	vithin a Wetlar	na? Yes	NO	
Remarks:						
VEGETATION II	.1					
VEGETATION – Use scientific names of plan	Absolute	Domine	ant Indicator	Dominance Test wor	kehooti	
Tree Stratum (Plot size:)			s? Status	Number of Dominant		
1. Alnus rubra	_ <i>_U)_</i>		FAC	That Are OBL, FACW		<u>1</u> (A)
2.				Total Number of Domi	nant <i>t</i>	1
3				Species Across All Str	ata:	(B)
4		T-4-1	Cover 6/4	Percent of Dominant 8		) (A/B
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW		(A/B)
1. Rubus specfabilis			_ HAC	Prevalence Index wo	rksneet: Multip	ly by:
2				OBL species		•
3				FACW species		
4				FAC species		
5		= Total	Cover 1/.02	FACU species		
Herb Stratum (Plot size:)	7.0	TOLAI		UPL species		
1. Veronica americany	- 12		- OBL	Column Totals:	(A)	(B)
2. Ranunculus repens	- <u>40</u>		_ FAC	Prevalence Inde		
3. Juncus effusus 4. Holcus langtus	- 10		- FACW FAC	Hydrophytic Vegetat		
4. Holcus langtus 5. Antho Xanthum adoratum	- <del></del>		- FACU	1 - Rapid Test for		tation
6. Agrostis giganteq	20	V	FAC	2 - Dominance Te		
7. Athyrrown & Dryopteris expans	iq 10		FACU	4	aex is ≤3.0 Adaptations¹ (Prov	vide supportin
8.				data in Remar	ks or on a separate	e sheet)
9				5 - Wetland Non-		
10					ophytic Vegetation	
11	2.00			<sup>1</sup> Indicators of hydric set be present, unless dis	oil and wetland hyd turbed or problema	irology must atic.
Woody Vine Stratum (Plot size:)	117	= Total	CoverS&\5/13.	1		
1		_		Hydrophytic		
				1	es_/_ No_	
2				Present? Y	aa ia Na	
% Bare Ground in Herb Stratum		_= Total (	Cover	Fresentr	es_ <u>-</u> NO	

Sampling Point: <u>#3</u>

Depth	Matrix						
(inches)	Color (moist)	%	Redox F Color (moist)	eatures % Type <sup>1</sup>	_Loc <sup>2</sup> _	Texture	Remarks
0-6	10 48 3/2	60	10 YR 3/6	17 6	$\frac{\overline{\rho_I}}{}$	SEL	
	<del>\(\frac{1}{2}\)</del>		CC V 4/1	$\frac{1}{23}$ $\frac{1}{D}$	m	<del></del>	WANAGARA CILINA
4-12	10000	70	2.5 YR 2.5/3		1200	<del></del>	
6-12	107R 3/1		C) 71 4/1	$\overrightarrow{-}$	<u> </u>	<del></del>	(1) (MINING 1) (1) (MINING 1) (MI
			> 9K = 1/6	<u> </u>	PL		
			2.5 y 4/3	10 C	m		
12-18	107R 2/1	90	L.S YR 25/3	8 6	m		
			S G 4/2	2 /)	m	_	
						7/	
1Type: C=C	oncentration D=De	nletion PM	=Reduced Matrix, CS=0	Covered or Coate	ad Sand Gra	ains <sup>2</sup> l ocatio	on: PL=Pore Lining, M=Matrix.
			LRRs, unless otherwi		ou Gariu Gra		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redox (S5)				uck (A10)
	pipedon (A2)		Stripped Matrix (S				rent Material (TF2)
	istic (A3)		Loamy Mucky Min		t MLRA 1)		allow Dark Surface (TF12)
	en Sulfide (A4)		Loamy Gleyed Ma			Other (I	Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Matrix (F			3,	
	ark Surface (A12)		Redox Dark Surfa				of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Sul Redox Depression				nydrology must be present, sturbed or problematic.
	Layer (if present):		Nodox Depression	(1 0)		dilioss di	salvos or prodotnation
Type:	<b>,</b> ( p						, /
Depth (in	ches):					Hydric Soil Pre	esent? Yes No
			throughout				
HADBULU	iGV		-				
Wetland Hy	drology Indicators		de abook all that apply)			Sacanda	ry Indiantera (2 or more required)
Wetland Hy	drology Indicators cators (minimum of		ed; check all that apply)				ry Indicators (2 or more required)
Wetland Hy Primary India V Surface	drology Indicators cators (minimum of Water (A1)		Water-Staine	ed Leaves (B9) (c	except	Wate	r-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary India Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-Staine	2, 4A, and 4B)	except	Wate	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B)
Wetland Hy Primary India Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water-Staine MLRA 1, Salt Crust (B	<b>2, 4A, and 4B)</b> 11)	except	Wate <b>4.</b> Drair	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10)
Wetland Hy Primary India  ✓ Surface  — High Wa  ✓ Saturati  — Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1)		Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	<b>2, 4A, and 4B)</b> 11) rtebrates (B13)	except	Wate 4, Drair Dry-S	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2)
Wetland Hy Primary India  ✓ Surface  — High Wa  ✓ Saturati  — Water M — Sedimer	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)		Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1)	·	Wate 4, Drair Dry-{ Satu	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)		Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Living Root	Wate Drain Dry-3 Satu ts (C3) Geor	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2)
Wetland Hy Primary India  ✓ Surface  — High Wa  ✓ Saturati  — Water M  — Sedimed  — Drift Deg  — Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)		Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi. Presence of	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Living Root 4)	Wate Drain Dry-9 Satu ts (C3) Geor	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Wetland Hy Primary India  ✓ Surface  — High Wa  ✓ Saturati  — Water M  — Sedime  — Drift De  — Algal Ma  — Iron De	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C	Living Root 4) ed Soils (C6)	— Wate  4, — Drain — Dry-5 — Satu ts (C3) — Geor — Shal	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) horphic Position (D2) ow Aquitard (D3)
Wetland Hy Primary India Surface High Wa Saturati Sedimen Drift De Algal Ma Iron Dep Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one require	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E	Living Root 4) ed Soils (C6)	Wate Drain Dry-0 Satu Shall Shall FAC Rais	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Saturati Drift De Algal Ma Iron De Surface Inundati	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	one require	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron F Stunted or Si Other (Expla	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E	Living Root 4) ed Soils (C6)	Wate Drain Dry-0 Satu Shall Shall FAC Rais	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hy Primary India Surface High Wa Saturati Saturati Drift De Algal Ma Iron De Surface Inundati	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria y Vegetated Conca	one require	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or St Other (Expla	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D in in Remarks)	Living Root 4) ed Soils (C6)	Wate Drain Dry-0 Satu Shall Shall FAC Rais	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hy Primary India  ✓ Surface  — High Wa  ✓ Saturati  — Water M  — Sedime  — Drift De  — Algal Ma  — Iron Dep  — Surface  — Inundati  — Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca	I Imagery (B	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or St  Other (Expla	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D in in Remarks)	Living Root 4) ed Soils (C6)	Wate Drain Dry-0 Satu Shall Shall FAC Rais	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hy Primary India Surface High Wa Saturati Sedime Drift De Algal Ma Iron Dep Surface Inundati Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soll Cracks (B6) ion Visible on Aeria by Vegetated Conca	I Imagery (Eve Surface (Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks) es):	Living Roof 4) ed Soils (C6) 01) (LRR A)	Wate 4, Drain Satu ts (C3) Seo Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Primary Indiv	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Der Surface Inundati Sparsel Field Obser Surface Water Table Saturation P (includes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Der Surface Inundati Sparsel Field Obser Surface Water Table Saturation P (includes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Der Surface Inundati Sparsel Field Obser Surface Water Table Saturation P (includes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift De Algal Ma Iron Del Surface Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift De Algal Ma Iron Del Surface Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift De Algal Ma Iron Del Surface Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria by Vegetated Conca contractions: ter Present? Present? Present?	I Imagery (Eve Surface (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Water-Staine  MLRA 1,  Salt Crust (B  Aquatic Inver  Hydrogen Su  Oxidized Rhi  Presence of  Recent Iron I  Stunted or Si  Other (Explaine)  No  Depth (inches)  No  Depth (inches)	2, 4A, and 4B) 11) rtebrates (B13) Ilfide Odor (C1) Izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I in in Remarks)  es):  es):  + hrough a	Living Roof 4) ad Soils (C6) 01) (LRR A)	Wate 4, Drain Dry-6 Satu ts (C3) Shal FAC Rais Fros	or-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)

Project/Site: 4775 Broadway, Eurella	CA city/c	County: EV4	/Hum Sampling Date:
Applicant/Owner: Carrington			State: A Sampling Point: #4
Investigator(s): SP 9-54			
Landform (hillslope, terrace, etc.):	Loca	l relief (concave. o	convex, none): (Mear Slope (%): 17)
Landform (hillslope, terrace, etc.):Subregion (LRR):	Lat: 40°45	41.18" N	Long: 124° 10' 57.13" W Datum:
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical for the	nis time of year?	es V No	
Are Vegetation, Soil, or Hydrology	-		Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
			ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		_
	No	Is the Sampled within a Wetlar	. /
Wetland Hydrology Present? Yes	No	within a wetiar	id? Tes NO
Remarks: -			
VEGETATION – Use scientific names of pla	nts.		
		ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Number of Dominant Species
1. Sambucus race mosa			That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata: (B)
4.			مدر
		tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
Sapling/Shrub Stratum (Plot size:)   1.   Rubus ursinus	ıS	V FACY	Prevalence Index worksheet:
2. Rubus armeniacus	- <del>ii</del> -		Total % Cover of: Multiply by:
3. Robus spectubilis	13	UV	OBL species  x1 = 0
4.			FACW species $\frac{120}{24}$ x 2 = $\frac{240}{72}$
5		<del></del>	FAC species $29 \times 3 = 72$ FACU species $39 \times 4 = 216$
Harle Ottortona (Dietaine)	<u>39</u> = To	otal Cover 1 <i>9-5</i> / 7-8	
Herb Stratum (Plot size:)  1. Dr-7 anteris expansa	60	1 FAEW	UPL species $0 \times 5 = 0$ Column Totals: $198 \times 5 = 528 \times 5$ (B)
2. Equisetum telmatera	60	L FACW	Prevalence Index = B/A = 2.67
3. Holcus lanatus		FAI	Hydrophytic Vegetation Indicators:
	4	FAC	1 - Rapid Test for Hydrophytic Vegetation
5. Polystichum spp.		FACY	2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			4 - Morphological Adaptations (Provide supporting
8			data in Remarks or on a separate sheet)  5 - Wetland Non-Vascular Plants <sup>1</sup>
9			9 - Wetland Non-Vascular Flants Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.			Indicators of hydric soil and wetland hydrology must
11	$-\frac{139}{139} = T0$	tal Cover 69.5/27.8	
Woody Vine Stratum (Plot size:)	<u> </u>	iai covero - j	
1			Hydrophytic
2			Vegetation   Present?   Yes   No
% Bare Ground in Herb Stratum		tal Cover	
Remarks:			I

Profile Description: (Describe to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of indicators.)
Depth Matrix		x Feature		- <del></del>	
(inches) Color (moist) %	Color (moist)	%	_Type <sup>1</sup> _	<u>Loc²</u>	Texture Remarks
0-2.4" 10783/1 100					Sandy Peat
24- 144" 107R 3/1 100					Mucley L
14.4-70.4" N 4/ 60	5 YR 5/8	4	(	PL	CL
10784/1 36				<del></del>	
10/12/1 30		•			
	<u> </u>				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM:	=Reduced Matrix CS	S=Covere	d or Coate	d Sand Gr	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all				od Odila Ol	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S		,		2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix				Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky N		1) (except	t MLRA 1)	
Hydrogen Sulfide (A4)	Loamy Gleyed				Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix				_
Thick Dark Surface (A12)	Redox Dark Su				<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark		<del>-</del> 7)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depress	ions (F8)			unless disturbed or problematic.
Restrictive Layer (if present):					
Type:					
Depth (inches):					Hydric Soil Present? Yes No
Remarks:	•				
HYDROLOGY					
Wetland Hydrology Indicators:					,
Primary Indicators (minimum of one require	d: check all that anni	W			Secondary Indicators (2 or more required)
	Water-Sta		os (B0) (c	veent	Water-Stained Leaves (B9) (MLRA 1, 2,
Surface Water (A1) High Water Table (A2)		1, 2, 4A,		xcept	4A, and 4B)
Saturation (A3)	Salt Crust		anu 46)		✓ Drainage Patterns (B10)
, ,	Aquatic In		e (B13)		Dramage Fallerins (B16) Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen				Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized F			Living Roc	
Algal Mat or Crust (B4)	✓ Presence		_	-	Shallow Aquitard (D3)
Iron Deposits (B5)			•	d Soils (C6	
Surface Soil Cracks (B6)	Stunted or			-	,
Inundation Visible on Aerial Imagery (B			-	(=::::::	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (		, , , , , , , , , , , , , , , , , , ,	ornarno,		()
Field Observations:					
Surface Water Present? Yes	No Depth (in	rhee). (	18		
	No Depth (in			<b>-</b>	
Water Table Present? Yes	No Depth (in	chech S	ur-far +	<u>-</u>	and Hydrology Present? Yes No
Saturation Present? Yes (includes capillary fringe)	no Debui (iii	cries)		vveu	and nydrology Fresent? Tes No
Describe Recorded Data (stream gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:
Remarks:					
1					

Project/Site: 4775 Broadway, EU4 Applicant/Owner: Carrington	CA	Citv/Countv:	Ella	Hum Sampling Date: 7/23/12
Applicant/Owner: Carrington	<del>/ /</del>			State: CA Sampling Point: #5
Investigator(s): $SPASC$				
Landform (hillslope, terrace, etc.):				
Subregion (LRR): A	l at·	20041101101 (0	,0,1,0,1,0,1	Long: Datum:
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for thi				
Are Vegetation, Soil, or Hydrology				Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			,	
Hydrophytic Vegetation Present? Yes N	V0 V	1		
Hydric Soil Present? Yes N	vo 🗸	1	Sampled	1 /
Wetland Hydrology Present? YesN	vo <u> </u>	Within	a Wetlan	d? Yes No
Remarks:				
VEGETATION – Use scientific names of plar	nte			· ·
VEGETATION – Ose scientific flames of plan	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status_	Number of Dominant Species
1. Sambucus racemosa			FACY	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC: (A/B)  Prevalence Index worksheet:
1. Rubus armeniacus			FACU	Total % Cover of: Multiply by:
2. Ursinus	- <del></del>		FACU	OBL species x 1 =
3. Spectabilis			1-4-C	FACW species x 2 =
4.				FAC species x 3 =
5	76			FACU species x 4 =
Herb Stratum (Plot size:)		_ = Total Cove	<i>€</i>	UPL species x 5 =
1. Equisetum telmateia	20	/	ACW	Column Totals: (A) (B)
2. Stachys ajugoides	_ 15		0BL	Prevalence Index = B/A =
3. Ranunculus repens	_ <u>3 \$</u>		FAC	Hydrophytic Vegetation Indicators:
4. Halour langtus			1-110	1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 <sup>1</sup>
7. 8.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants <sup>1</sup>
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
11.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	137	_= Total Cove	r685/27.	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			•	
1				Hydrophytic Vegetation
2		= Total Cove	r	Present? Yes No No
% Bare Ground in Herb Stratum		-		
Remarks: No hadric Soil or wetle	and h-	1dra (05-	$a = \rho$	revalence index doesn't
quality	•	1	v	
, ,				

Depth   Matrix   Redox Features   Color (moist)   %   Type   Loc   Texture   Remarks     O - 10.8   10 y R 2/1   (00                             (0.3-19.2"   10 y R 3/4
0-10.8" 16 YR 2/1 100 5CL 10.3-19.2" 10 YR 3/4 63 16 YR S/8 S C m SL 19.2-22.8" 10 YR 4/6 10 YR 3/2 17 C m cm
192-22,8" 10 yR 3/4 63 10 yR 5/8 S C m SL 192-22,8" 10 yR 4/6 10 yR 3/2 17 C m cm
1922-21 10 yr 4/6 10 yr 3/2 17 C m cm
10 YR S/1 15 D M
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)
Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.
Restrictive Layer (if present):
Type:
Depth (inches): Hydric Soil Present? Yes No
Remarks:
·
HYDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)
Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2
High Water Table (A2)  MLRA 1, 2, 4A, and 4B)  Saturation (A3)  Salt Crust (B11)  Drainage Patterns (B10)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)
Drift Deposits (B3) — Oxidized Rhizospheres along Living Roots (C3) — Geomorphic Position (D2)  Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) — Shallow Aquitard (D3)
Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  FAC-Neutral Test (D5)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)  Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)  Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)  Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Presence of Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Reised Ant Mounds (D6) (LRR A) Other (Explain in Remarks) Frost-Heave Hummocks (D7)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)  Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)  Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)  Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)
Drift Deposits (B3)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Thou Control of the Control o
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Yes Yes Yes No Depth (inches): Yes
Drift Deposits (B3)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes Ye
Drift Deposits (B3)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Raised Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Raised Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8)

WETLAND DETERMINATION DA					, n
Project/Site: 4775 Broadway, Elia,	CA	City/Count	tv: EKG,	Hum	Sampling Date: 7/2-3/1
Applicant/Owner: Carrington		•	,	State: CA	Sampling Point: #6
Investigator(s): 5P 4-5°C					
Landform (hillslope terrace etc.):		Local relie	ef (concave. c	onvex. none): In equ	Slope (%): 25
Landform (hillslope, terrace, etc.):Subregion (LRR):	Lat: 40	°45 3	9.99"	Long: 1240 10'S	7.10" W <sub>Datum</sub> :
Soil Map Unit Name:				NWI classifica	
Are climatic / hydrologic conditions on the site typical for this			4		
					resent? Yes No
Are Vegetation, Soil, or Hydrologys					
Are Vegetation, Soil, or Hydrology n				eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map	showing	sampli	ng point lo	ocations, transects,	important features, etc
Hydrophytic Vegetation Present? Yes N					
Hydric Soil Present? Yes V		l l	the Sampled thin a Wetlan	(	No
Wetland Hydrology Present? Yes V	0			u: 103	_ ~
Remarks:					
VECETATION Lies exigntific names of plan					
VEGETATION – Use scientific names of plan	Absolute	Dominar	nt Indicator	Dominance Test works	shoot:
Tree Stratum (Plot size:)			? Status	Number of Dominant Sp	
1	70	_1/	FACW	That Are OBL, FACW, o	
2				Total Number of Domina	ant (
3				Species Across All Strat	
4				Percent of Dominant Sp	ecies o 7
Sapling/Shrub Stratum (Plot size:)	70	_ = Total C	Cover	That Are OBL, FACW, o	
1. Lonicera involvetra	S	6	FAC	Prevalence Index work	
2. Rubus discolor grmenicus	- 5		FACY	,	Multiply by:
3.					x1=
4.					x 2 =
5					x 3 =
	10	= Total C	Cover	FACU species	x4 x5=
Herb Stratum (Plot size:)	.س کر	1./	OBL		
1. Lysi Chitan americanus 2. Equisetum telmateia	- 47		- FACW		
3. Tolmieg Menziesii	- <del>- 2</del> 3	$\overline{}$	FAC		= B/A =
4. Ranunculus repens	70		FAC	Hydrophytic Vegetatio	lydrophytic Vegetation
5. Veronica americany	- "3		OBL	2 - Dominance Test	
6. Drypoteris expansa	11		FACW	3 - Prevalence Inde	
7.					daptations <sup>1</sup> (Provide supporting
8.				data in Remarks	or on a separate sheet)
9				5 - Wetland Non-Va	
10.					phytic Vegetation <sup>1</sup> (Explain)
11					and wetland hydrology must rbed or problematic.
Woody Vine Stratum (Plot size:)	123	_= Total C	over(1.5/24.6	20 procent, unless distu	Table of problemation
1					
2				Hydrophytic Vegetation	\
		= Total C	over	Present? Yes	s No
% Bare Ground in Herb Stratum	***************************************				
Remarks:					

Attachment 4
Sampling Point: ## 6

Profile Description: (Describe to the depth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix Redox Features	
	DC <sup>2</sup> Texture Remarks
0-18" 104R 2/1 100	Mucky SL
18-21.6" 104 5/1 100	5 glegel zane
21.6-24" 7.5484/6 (0)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sa	and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLI	RA 1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	2
Thick Dark Surface (A12) Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type:	Hydric Soil Present? Yes No
Depth (inches):	nyunc son Flesentr Tes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Water-Stained Leaves (B9) (exceptions)	
High Water Table (A2)  MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)  Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)  Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)  — Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Orifit Deposits (B3) Oxidized Rhizospheres along Livin	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled So	,
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L	• • •
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present?  Yes No Depth (inches):	
1	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): 15 Sufface (includes capillary fringe)	Wenana nyarotogy mesentra tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions) if available:
	aono, navanasion
	action in available.
Remarks:	action in available.
	The standards
	in available.
	action in available.

			riants, vaneys, and coast region
Project/Site: 4775 Broadway, EKq,	CA	City/County: <u> </u>	Hum Sampling Date: 7/23/12 State: A Sampling Point: #7
Applicant/Owner: Carrington			State: Sampling Point:
Investigator(s): SP45E		Section, Township, Ran	nge:
Landform (hillslope, terrace, etc.):		Local relief (concave, c	convex, none): <u>Convex</u> Slope (%): <u>17</u>
Δ			Long: Datum:
Soil Map Unit Name:			
Are climatic / hydrologic conditions on the site typical for	this time of yea		
Are Vegetation, Soil, or Hydrology	_ significantly o	disturbed? Are "I	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally prol	blematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ıp showing	sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	is the Sampled	Area
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No V	within a Wetlan	
Remarks:	NO		
Temane.			
VEGETATION – Use scientific names of pl	ants.		
	Absolute		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
1			7
3.			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species
		= Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
12.			Total % Cover of: Multiply by:
3.			OBL species $O \times 1 = O$
4.			FACW species $\frac{50}{27}$ x 2 = $\frac{100}{27}$ x 3 = $\frac{51}{27}$
5			FACU species 22 x4 = 88
Harh Stratum (Plot size:		= Total Cover	UPL species
Herb Stratum (Plot size:)  1. Equisefum telm steig	50	V FACW	Column Totals: 99 (A) 269 (B)
2. Authoxanthum odoretum	15	U FACY	Prevalence Index = B/A =
3. Holcust langtur	12	FAC	Hydrophytic Vegetation Indicators:
4. Dactyles glomerata		<u>FAC U</u>	1 - Rapid Test for Hydrophytic Vegetation
5. Elymus repens	<u> </u>	FAC	2´- Dominance Test is >50%
6. Agrostis gigantea	<u> </u>	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
7. Rivner Crispus		- PAGE	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8 9.			5 - Wetland Non-Vascular Plants <sup>1</sup>
10.			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
11.			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		= Total Cover 5 3.5/រ.ម	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic Vegetation
2		= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum			
Remarks: No hydric soil or u	efland	hydro	
, ,		•	

1 5 0		needed to document the indicator or conf	
Depth Matrix		Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0-16.2 Color (moist)			Texture Remarks  SL the L% is Upstovings
		67R 44 2	- SC 748 C/0 15 W/0100 MGS
16.8-21.6 LOVR 3/1	<u> </u>	104R 2/2 L	> '
,			
		WHITE CO.	
	<u> </u>		
<sup>1</sup> Type: C=Concentration D=D	— —— — enletion RM≕R	educed Matrix, CS=Covered or Coated Sand	d Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
		RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA	(TF12) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)		_ Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surf	ace (A11)	_ Depleted Matrix (F3)	3
Thick Dark Surface (A12)	_	_ Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Depleted Dark Surface (F7)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present)		_ Redox Depressions (F8)	unless disturbed of problematic.
I	•		
Type:		<del>_</del>	Hydric Soil Present? Yes No
Depth (inches):			nyulic Soli Pleselli? Tes No
Remarks:	U 9005	Sland Soil	
Tan ser		f 1	
ADDRACED	Campac	sland Soil fed	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•		
HYDROLOGY		,	
Wetland Hydrology Indicator			
	s:		
		check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum o			Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum c		Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum c Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		<ul><li>Water-Stained Leaves (B9) (except</li><li>MLRA 1, 2, 4A, and 4B)</li><li>Salt Crust (B11)</li></ul>	<ul><li>Water-Stained Leaves (B9) (MLRA 1, 2,</li><li>4A, and 4B)</li><li>Drainage Patterns (B10)</li></ul>
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)		<ul> <li>Water-Stained Leaves (B9) (except</li> <li>MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> </ul>	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> </ul>
Primary Indicators (minimum c Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living</li> </ul>	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Roots (C3)</li> <li>Geomorphic Position (D2)</li> </ul>
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)</li> </ul>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	f one required; (	<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)</li> </ul>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)
Primary Indicators (minimum of Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  — Surface Soil Cracks (B6)  — Inundation Visible on Aeric	f one required; defined of the second of the	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)  R A)  Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	f one required; defined of the second of the	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)  R A)  Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric	one required; on	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)  R A)  Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertications:  Surface Water Present?	of one required; of one	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks))  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6)  FAC-Neutral Test (D5)  R A)  Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertications:  Surface Water Present?	al Imagery (B7) ave Surface (B8 Yes No Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks))  Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3) Geomorphic Position (D2)  Shallow Aquitard (D3)  (C6) FAC-Neutral Test (D5)  R A) Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concerns Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	al Imagery (B7) ave Surface (B8  Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks))  Depth (inches):  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concerns Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	al Imagery (B7) ave Surface (B8  Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks))  Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concerns Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	al Imagery (B7) ave Surface (B8  Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks))  Depth (inches):  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertied Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (strest	al Imagery (B7) ave Surface (B8 Yes No Yes No Yes No am gauge, moni	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Utoring well, aerial photos, previous inspection	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertied Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (strest	al Imagery (B7) ave Surface (B8 Yes No Yes No Yes No am gauge, moni	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Utoring well, aerial photos, previous inspection	Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertied Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (strest	al Imagery (B7) ave Surface (B8  Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Utoring well, aerial photos, previous inspection	Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concernia Sparsely Vegetated Concernia Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (stress	al Imagery (B7) ave Surface (B8  Yes No Yes No Yes No am gauge, moni	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Utoring well, aerial photos, previous inspection	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETERMINATION DA		Wa Cla		,
Project/Site: 4775 Brad way, Ella Applicant/Owner: Carrington	, <u>/ 4</u> C	City/County:	7 7 6 6 1	Sampling Date: 770777
Applicant/Owner: CT MGT Un			State: <u> </u>	_ Sampling Point:
Investigator(s): 5P45E		Section, Township, Ran	ge:	CALIFO 01-100 15
Landform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:	***************************************		NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical for the				
Are Vegetation, Soil, or Hydrology s	ignificantly d	listurbed? Are "I	Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology r	aturally prob	olematic? (If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sampling point lo	ocations, transect	s, important features, etc
Hydrophytic Vegetation Present?  Yes N		Is the Sampled	Area	
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N		within a Wetlan	d? Yes	No
Remarks: 01 4 - 604 at 14 - 4	- 0 /		•	
Remarks: Plants are poor indicator	part	icularly Mal	cus, on Nice	ust of tex tound
On dry upland still Gardy	loam):	Absence of	- Hydriz Soil	1 Vet Hydro = notu
VEGETATION – Use scientific names of plan	ts.			
	Absolute	Dominant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size:)  1		Species? Status	Number of Dominant S That Are OBL, FACW	
2.				. ~
3			Total Number of Domi Species Across All St	
4			•	<u> </u>
		= Total Cover	Percent of Dominant S That Are OBL, FACW	
Sapling/Shrub Stratum (Plot size:)			Prevalence Index wo	
1				Multiply by:
3.			·	x1 =
4			,	x 2 =
5.				x 3 = x 4 =
		= Total Cover		x4 x5=
Herb Stratum (Plot size:)	>5	V FACW	Column Totals:	
1. Equisetum telmateia 2. Holous lanatus		U FAC		
3. Lotus cornicylatus	2	FAC	Prevalence Inde	x = B/A =
4. Rubus ursinus	20	- FACU	• • •	· Hydrophytic Vegetation
5. Ranunculus repens	13	FAC	2 - Dominance Te	
6. Runel CONDUS	12	FAC	3 - Prevalence In	
7. Anthoxanthum oderatum	\$	PACU	4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
8. Dactylis glomerata		FACU		ks or on a separate sheet)
9. Agrostis gigantes		FAC	5 - Wetland Non-	
10				ophytic Vegetation <sup>1</sup> (Explain)
11.			he present unless die	oil and wetland hydrology must sturbed or problematic.
Woody Vine Stratum (Plot size:)	103	= Total Cover 51.5/201		
1			Hydrophytic	
2			Vegetation	7 V
		= Total Cover	Present? Y	/es No
% Bare Ground in Herb Stratum				

Profile Description: (Descr	be to the de	pth needed to docun	nent the ind	licator o	r confirm	the absence	of indicators.)	
Depth <u>Matri</u>			K Features		. 3		<b>.</b>	
(inches) Color (moist		Color (moist)	<u>% ·                                     </u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-19.2" 107R 2/	<u>ı . lob</u>	k .				_5L_		
,								
		· · · · · · · · · · · · · · · · · · ·						
								· · · · · · · · · · · · · · · · · · ·
						*		
		• •						
					-			
	- Lander				•			
				9				
<sup>1</sup> Type: C=Concentration, D=l	Depletion, RN	/I=Reduced Matrix, CS	=Covered o	r Coated	Sand Gra		cation: PL=Pore Lining, M=	
Hydric Soil Indicators: (Ap	plicable to a	l LRRs, unless other	wise noted.	.)		Indicate	ors for Problematic Hydric	Soils³:
Histosol (A1)		Sandy Redox (S	§5)			2 cı	m Muck (A10)	
Histic Epipedon (A2)		Stripped Matrix			•		d Parent Material (TF2)	
Black Histic (A3)		Loamy Mucky N	1ineral (F1) (	(except l	VILRA 1)		y Shallow Dark Surface (TF	12)
Hydrogen Sulfide (A4)		Loamy Gleyed I				Oth	ner (Explain in Remarks)	
Depleted Below Dark Su		Depleted Matrix				3,		
Thick Dark Surface (A12		Redox Dark Sur					ors of hydrophytic vegetation	
Sandy Mucky Mineral (S	•	Depleted Dark S					and hydrology must be pres	ent,
Sandy Gleyed Matrix (S4		Redox Depress	ions (F8)			unie	ss disturbed or problematic.	
Restrictive Layer (if present	t):						1	
Type:		<del></del>		ça -				1/
Depth (inches):						-	Present? Yes	No
Remarks:		> but le	355	Con De		20		
HYDROLOGY		•		eh.				
Wetland Hydrology Indicate	ors:							,
Primary Indicators (minimum	of one requir	ed; check all that appl	y)			Seco	ondary Indicators (2 or more	required)
Surface Water (A1)		Water-Sta	ned Leaves	(B9) (ex	cept	\	Nater-Stained Leaves (B9)	MLRA 1, 2,
High Water Table (A2)			1, 2, 4A, and		• •		4A, and 4B)	•
Saturation (A3)		Salt Crust		,		[	Orainage Patterns (B10)	
Water Marks (B1)		Aquatic In	. ,	(B13)			Ory-Season Water Table (C	2)
Sediment Deposits (B2)			Sulfide Odor				Saturation Visible on Aerial I	
Drift Deposits (B3)					ivina Root		Geomorphic Position (D2)	
Algal Mat or Crust (B4)		Presence					Shallow Aquitard (D3)	
Iron Deposits (B5)		Recent Iro					FAC-Neutral Test (D5)	
Surface Soil Cracks (B6)		Stunted or					Raised Ant Mounds (D6) (LF	RR A)
Inundation Visible on Ae					, (=,		Frost-Heave Hummocks (D7	•
Sparsely Vegetated Con-						'	L. S. L. Land Committee (D)	,
Field Observations:		\/		<del></del>				
	Voc	No Donth (In	chae):					
Surface Water Present?		No Depth (in	•					,
Water Table Present?		No Depth (in					B	" L
Saturation Present? (includes capillary fringe)	Yes	No Depth (in	cnes):		_   Wetla	ına Hydrolog	gy Present? Yes	NO
Describe Recorded Data (stre	eam gauge, n	nonitoring well, aerial i	ohotos, previ	ious insp	ections), i	f available:		
,	, , ,	<del>-</del>	•	•	•			
Remarks: 1		. m 1 .			0 1	. 1 -		
L. p. An	1 1/2	1.5'+,	No 50	ga o	H M	17010		
JONE W	/ "	`// /	- /	,				
İ	•							

WEILAND DETERMINATION				
Project/Site: 4775 Broadway	City/C	County: <u>EUc</u>	/Hum sa	impling Date: <u>7/23//2</u>
Applicant/Owner:			State: <u> </u>	mpling Point: <del></del>
Investigator(s): 5/ 4-5C		• •	nge:	
Landform (hillslope, terrace, etc.):	Loca	al relief (concave, c	convex, none): Concau	C Slope (%): 20
Subregion (LRR):	Lat: <u>40° 4</u>	<u>15° 37,78° N</u>	Long: 124° 11' 01,2	-9" W Datum:
Soil Map Unit Name:	Mirror III II II I		NWI classification	n:
Are climatic / hydrologic conditions on the site typical for	or this time of year? `			
Are Vegetation, Soil, or Hydrology	significantly distu	rbed? Are "	Normal Circumstances" pres	ent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problem		eded, explain any answers ir	
SUMMARY OF FINDINGS - Attach site m	nap showing sar	npling point lo	ocations, transects, ir	nportant features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	_ No	Is the Sampled within a Wetlan		No
VEGETATION – Use scientific names of p		minant Indicator	Dominance Test workshe	
Tree Stratum (Plot size:) 1)	% Cover Spe	ecies? Status	Number of Dominant Spec That Are OBL, FACW, or F	ies 🥎
3.			Total Number of Dominant Species Across All Strata:	<u></u> (B)
4		otal Cover	Percent of Dominant Speci That Are OBL, FACW, or F	
Sapling/Shrub Stratum (Plot size:)  1. Rubus graneniacus  2. tr ursinus  3  4		V FACU FACU	Prevalence Index worksh  Total % Cover of:  OBL species  FACW species  FAC species	Multiply by:  x 1 =  x 2 =
5		otal Cover 7.5/3	FACU species	
Herb Stratum (Plot size:)		otal Cover (17)	UPL species	x 5 =
1. Equisetum telmatera		FACW	Column Totals:	(A) (B)
2. Hol cus 1- 3. Anthoxanthum 0. 4. LOTUS C.	<u> </u>	FAC FACY	Prevalence Index = Hydrophytic Vegetation I 1 - Rapid Test for Hyd	
5. Argentny a.		OBL_	2 - Dominance Test is	
6. , , , , , , , , , , , , , , , , , , ,			3 - Prevalence Index is 4 - Morphological Ada data in Remarks or	s ≤3.0 <sup>1</sup> ptations¹ (Provide supporting on a separate sheet)
9			5 - Wetland Non-Vasc	
10			Problematic Hydrophy	
11.			<sup>1</sup> Indicators of hydric soil ar be present, unless disturbe	
Woody Vine Stratum (Plot size:)		otal Cover 57/22-2		ou er productiidade
1			Hydrophytic Vegetation	$\epsilon$
	= To		Present? Yes _	No
% Bare Ground in Herb Stratum				
Remarks:				

Profile Description: (Describe to t	he depth n	eeded to docum	ent the in	dicator	or confirm	the absence	of indicators.)		
Depth <u>Matrix</u>			Features						
(inches) Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-108" 104R 2/1	100_								
108-156" 104R 2/2	<u>81   1</u>	07R 3/2	15	<u> </u>	m	_SCL_			
15.6-11	Nation 1	7.5 YR5/8	4		m				
15.6-29" 2.544/2	60 1	0482/2	10	6	m	SCL	Heavily Mottled		
		0 YR 6/8	17	_	M	1			
		C > 3/2	24		m				
		15 7 7/1							
<sup>1</sup> Type: C=Concentration, D≕Depletion	on, RM=Re	duced Matrix, CS=	Covered	or Coate	d Sand Gra		ation: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators: (Applicable	e to all LRI	₹s, unless otherv	/ise note	d.)		Indicato	rs for Problematic Hydric Soils³:		
Histosol (A1)		Sandy Redox (S	5)				Muck (A10)		
Histic Epipedon (A2)		Stripped Matrix (					Parent Material (TF2)		
Black Histic (A3)		Loamy Mucky Mi			: MLRA 1)		Shallow Dark Surface (TF12)		
Hydrogen Sulfide (A4)		Loamy Gleyed M				Othe	r (Explain in Remarks)		
Depleted Below Dark Surface (A	N11)	Depleted Matrix ( Redox Dark Surf				3Indiagto	rs of hydrophytic vegetation and		
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Depleted Dark Sun	. ,	7)			nd hydrology must be present,		
Sandy Gleyed Matrix (S4)	-	Redox Depression	•	' )			s disturbed or problematic.		
Restrictive Layer (if present):		Trodox Doprodore	,,,,,			1	P		
Type:									
Depth (inches):		<del></del>				Hydric Soil	Present? Yes No		
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:									
Primary Indicators (minimum of one	required; cl	neck all that apply	)			<u>Secon</u>	dary Indicators (2 or more required)		
Surface Water (A1)		Water-Stain	ed Leave	es (B9) (e	xcept	W	ater-Stained Leaves (B9) (MLRA 1, 2,		
High Water Table (A2)		MLRA 1	, 2, 4A, a	nd 4B)			4A, and 4B)		
Saturation (A3)		Salt Crust (	311)				rainage Patterns (B10)		
Water Marks (B1)		Aquatic Inve				Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Hydrogen S					aturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Oxidized RI	-	_	-		eomorphic Position (D2)		
Algal Mat or Crust (B4)		Presence of			-		hallow Aquitard (D3)		
Iron Deposits (B5)		Recent Iron					AC-Neutral Test (D5)		
Surface Soil Cracks (B6)	,	Stunted or S		•	1) (LRR A)		aised Ant Mounds (D6) (LRR A)		
Inundation Visible on Aerial Ima	gery (B7)	Other (Expl	ain in Rei	marks)		Fi	ost-Heave Hummocks (D7)		
Sparsely Vegetated Concave St	urface (B8)								
Sparsely Vegetated Concave St Field Observations:	<u> </u>								
Sparsely Vegetated Concave St Field Observations: Surface Water Present? Yes	No	Depth (inc			<b>I</b>		_		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes	No	Depth (inc	nes):						
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes   Saturation Present? Yes	No	Depth (inc	nes):			and Hydrology	y Present? Yes No		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes	No No No	Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes   Saturation Present? Yes   (includes capillary fringe) Describe Recorded Data (stream ga	No No No uge, monite	Depth (included) Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		
Sparsely Vegetated Concave State of Concave State of State of Concave Stat	No No No uge, monite	Depth (included) Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes   Saturation Present? Yes   (includes capillary fringe)  Describe Recorded Data (stream ga	No No No uge, monite	Depth (included) Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes   Water Table Present? Yes   Saturation Present? Yes   (includes capillary fringe)  Describe Recorded Data (stream ga	No No No uge, monite	Depth (included) Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		
Sparsely Vegetated Concave State   Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream ga	No No No uge, monite	Depth (included) Depth (included) Depth (included) Depth (included)	nes): nes):		Wetla	-	y Present? Yes No		

Project/Site: 4775 Brandway  Applicant/Owner: Carrington						
Applicant/Owner: Cor and str.		City/County	00017	State: CA	Sampling Date	ot: 4£10
Investigator(s): SP4 5C		Section Town	nahin Dane	State. C/	Sampling Fol	iii. <u>44</u> (
Landform (hillslope, terrace, etc.):						Slone (%): 6
Subregion (LRR):		ee 4-9	oncave, co	Long:	D	satum:
Soil Map Unit Name:	Lat	4			assification:	
Are climatic / hydrologic conditions on the site typical for this	e time of ve	ar? Vac 1 /	/			***************************************
Are Vegetation, Soil, or Hydrologys	-				ces" present? Yes	1/ No
Are Vegetation, Soil, or Hydrology r					nswers in Remarks.	
			,	•		,
SUMMARY OF FINDINGS – Attach site map		sampling	point lo	cations, trans	ects, important	teatures, etc
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Compaction Present	lo <u>/</u>		Sampled A	rea Yes	No_C	
VEGETATION – Use scientific names of plan						
Tree Stratum (Plot size:) 1)		Dominant Ir Species?	Status_	<b>Dominance Test</b> Number of Domin That Are OBL, FA	ant Species	<u>3</u> (A)
3.			j.	Total Number of D Species Across A		(B)
4.		= Total Cove		Percent of Domina That Are OBL, FA		75 (A/B)
Sapling/Shrub Stratum (Plot size:  1. Lonic era in voluctra  2. Rubus dis Color  3.  4.  5.  Herb Stratum (Plot size:  1. Hod cust.  2. Equisefum t.	40	= Total Cove	FAC U	OBL species FACW species FAC species FACU species UPL species Column Totals:	x 1 =	(B)
3. Plantago 1. 4. Ranuncylus r. 5. 6. 7. 8. 9.	5 15		<u> </u>	Hydrophytic Veg 1 - Rapid Tes 2 - Dominanc 3 - Prevalenc 4 - Morpholog data in Re 5 - Wetland N Problematic H	e Index is ≤3.0 <sup>1</sup> gical Adaptations¹ (F marks or on a sepai Jon-Vascular Plants Hydrophytic Vegetat	egetation Provide supporting rate sheet) i ion <sup>1</sup> (Explain)
11		= Total Cove	r48/19.2	be present, unless	ric soil and wetland l s disturbed or proble	nydrology must ematic.
1 2 % Bare Ground in Herb Stratum				Hydrophytic Vegetation Present?	Yes No	·
Remarks: These FAC plants	grav	well	on 59	ind 7 (09)	m uplands	, combined

Sampling Point: ±(6)

	Matrix			edox Features			
(inches)	Color (moist)	%	Color (moist)	<u></u>	/pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-29"	107R 2/	<u> </u>					
_	, , , , , , , , , , , , , , , , , , , ,	<b>つ</b>					grave ( from for
		- Commercial Control of the Control					
<del></del>							
						<u></u>	
<sup>1</sup> Type: C=Co	oncentration, D=De	epletion, RM	I=Reduced Matrix,	CS=Covered or	Coated Sand Gr	ains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
			I LRRs, unless of			Indicato	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo			2 cn	n Muck (A10)
	ipedon (A2)		Stripped Ma				Parent Material (TF2)
Black His				κy Mineral (F1) ( <b>e</b>	xcept MLRA 1)		y Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gley	ed Matrix (F2)			er (Explain in Remarks)
Depleted	Below Dark Surfa	ace (A11)	Depleted Ma				
	ark Surface (A12)			Surface (F6)			ors of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted Da	rk Surface (F7)			nd hydrology must be present,
Sandy G	leyed Matrix (S4)		Redox Depr	essions (F8)		unles	s disturbed or problematic.
Restrictive L	_ayer (if present)						
Type:							. /
Depth (inc	ches):					Hydric Soil	Present? Yes No
Remarks:	1	· · · · · · · · · · · · · · · · · · ·	1		0 (1		•
	Sine di	27/	homogeo	nous 1	rofice		
		/ /	/				
	*						
HYDROLO	GY						
		6.					
Wetland Hyd	drology Indicator		ed: check all that a	nniv)		Secol	odary Indicators (2 or more required)
Wetland Hyd Primary Indic	drology Indicator cators (minimum o		ed; check all that a		20) (avaant		ndary Indicators (2 or more required)
Wetland Hyd Primary Indic	drology Indicator ators (minimum o Water (A1)		Water-	Stained Leaves (			Vater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hyd Primary Indic Surface V	drology Indicator eators (minimum o Water (A1) tter Table (A2)		Water- <b>MLI</b>	Stained Leaves (I RA 1, 2, 4A, and		v	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hyd Primary Indic Surface Welling High Wa	drology Indicator eators (minimum o Water (A1) uter Table (A2) on (A3)		Water- <b>MLI</b> Salt Cr	Stained Leaves (I RA 1, 2, 4A, and ust (B11)	4B)	v	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Prainage Patterns (B10)
Wetland Hyd Primary Indio Surface High Wa Saturatio Water M	drology Indicator eators (minimum o Water (A1) hter Table (A2) on (A3) farks (B1)		Water- <b>MLI</b> Salt Cr Aquatio	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B	<b>4B)</b> 13)	v	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen	drology Indicator cators (minimum o Water (A1) her Table (A2) on (A3) larks (B1) nt Deposits (B2)		Water- MLI Salt Cr Aquatio Hydrog	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B len Sulfide Odor (	<b>4B)</b> 13) (C1)	V C S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Staturation Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indice Surface V High Wa Saturatio Water M Sedimen Drift Dep	drology Indicator eators (minimum o Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)		Water- MLI Salt Cr Aquatio Hydrog Oxidize	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B en Sulfide Odor ( ed Rhizospheres a	<b>4B)</b> 13) (C1) along Living Roo	V C S ots (C3) G	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hyd Primary Indic Surface Management High Wa Saturation Water M Sediment Drift Dep	drology Indicator eators (minimum o Water (A1) ater Table (A2) on (A3) earks (B1) at Deposits (B2) posits (B3) at or Crust (B4)		Water- MLI Salt Cr Aquatic Hydrog Oxidize Presen	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B len Sulfide Odor ( ed Rhizospheres a ce of Reduced Ird	4B) 13) (C1) along Living Roon (C4)	V C S ots (C3) S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Staturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hyd Primary Indio Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	drology Indicator eators (minimum o Water (A1) Iter Table (A2) Ion (A3) Iarks (B1) In Deposits (B2) Ioosits (B3) It or Crust (B4) Ioosits (B5)		Water- MLI Salt Cr Aquatio Hydrog Oxidize Presen Recent	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres a ce of Reduced Ind I Iron Reduction in	4B) 13) (C1) along Living Roo on (C4) n Tilled Soils (C6	V C S ots (C3) S S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Estaturation Position (D2)  Estatlow Aquitard (D3)  EAC-Neutral Test (D5)
Wetland Hyd Primary Indio Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Inter Table (B2) Inter Table (B2) Inter Table (B3) Inter Table (B4) Inter Table (B5) Inter Table (B5) Inter Table (B6) Inter Tabl	f one require	Water- MLI Salt Cr Aquatio Hydrog Oxidize Presen Recent Stunted	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B len Sulfide Odor ( ed Rhizospheres a ce of Reduced Ird	4B) 13) (C1) along Living Roo on (C4) n Tilled Soils (C6	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Becomorphic Position (D2)  Challow Aquitard (D3)  CAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio	drology Indicator cators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B2) Inter Table (B4) Inter Table (B6) Inter Ta	f one require	Water- MLI Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres a ce of Reduced Ind I Iron Reduction in	4B)  13) (C1) along Living Room on (C4) n Tilled Soils (C6) nts (D1) (LRR A	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Estaturation Position (D2)  Estatlow Aquitard (D3)  EAC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Inter Table (B2) Inter Table (B2) Inter Table (B3) Inter Table (B4) Inter Table (B5) Inter Table (B5) Inter Table (B6) Inter Tabl	f one require	Water- MLI Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B en Sulfide Odor ( ed Rhizospheres a ce of Reduced Ind I Iron Reduction in d or Stressed Plan	4B)  13) (C1) along Living Room on (C4) n Tilled Soils (C6) nts (D1) (LRR A	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Becomorphic Position (D2)  Challow Aquitard (D3)  CAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio	drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria o Vegetated Conca	f one require	Water- MLI Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B en Sulfide Odor ( ed Rhizospheres a ce of Reduced Ind I Iron Reduction in d or Stressed Plan	4B)  13) (C1) along Living Room on (C4) n Tilled Soils (C6) nts (D1) (LRR A	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Becomorphic Position (D2)  Challow Aquitard (D3)  CAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hyd Primary Indic Surface V High Wa Saturation Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundation Sparsely	drology Indicator eators (minimum o Water (A1) Iter Table (A2) In (A3) Iarks (B1) In Deposits (B2) In Opposits (B3) In Opposits (B4) In Opposits (B4) In Opposits (B5) Iter Crust (B4) In Opposits (B5) Iter Crust (B6) In Opposits (B6) In Opposite	f one require al Imagery (I ave Surface	Water- MLI Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres a ce of Reduced Iro i Iron Reduction in d or Stressed Plan Explain in Remar	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6nts (D1) (LRR Acks)	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Becomorphic Position (D2)  Challow Aquitard (D3)  CAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hyd Primary Indio Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int Oracks (B6) Int Oracks (B6) Int Visible on Aeria Inter Vegetated Concavations: Inter Present?	f one require  al Imagery (I  ave Surface	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (Busen Sulfide Odor (Buse	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Prainage Patterns (B10)  Pry-Season Water Table (C2)  Esturation Visible on Aerial Imagery (C9)  Becomorphic Position (D2)  Challow Aquitard (D3)  CAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hyd Primary Indic Surface V High Wa Saturation Water M Sediment Drift Dep Algal Ma Iron Dep Surface Inundation Sparsely Field Observ Surface Water Table	drology Indicator cators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Inter Table (B2) Inter Table (B3) Inter Table (B4) Inter Tab	al Imagery (I ave Surface Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (Buen Sulfide Odor (ed Rhizospheres ace of Reduced Ird Iron Reduction indor Stressed Platexplain in Remark (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)	V C S ots (C3) S S S) F F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyden Primary Indices Surface Water March Marc	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) Shallow Aquitard (D3) CAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Orost-Heave Hummocks (D7)
Wetland Hyden Primary Indices Surface Water March Marc	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyden Primary Indices Surface Water March Marc	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyden Primary Indices Surface Water March Marc	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyderimary Indices Surface Surface Water Management Sediment Drift Depton Algal Management Surface Inundation Sparsely Field Observing Surface Water Table Saturation Profit (includes caped Describe Received Surface Received Surface Water Table Saturation Profit Constitution Pro	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyderimary Indices Surface Surface Water Management Sediment Drift Depton Algal Management Surface Inundation Sparsely Field Observing Surface Water Table Saturation Profit (includes caped Describe Received Surface Received Surface Water Table Saturation Profit Constitution Pro	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyderimary Indices Surface Surface Water Management Sediment Drift Depton Algal Management Surface Inundation Sparsely Field Observing Surface Water Table Saturation Profit (includes caped Describe Received Surface Received Surface Water Table Saturation Profit Constitution Pro	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyderimary Indices Surface Water Management Sediment Drift Depton Algal Management Surface Inundation Sparsely Field Observing Surface Water Table Saturation Profincludes cape Describe Receivers	drology Indicator eators (minimum o Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Int or Crust (B4) Int or Crust (B6) Int or Visible on Aeria Inter Vegetated Concavations: Inter Present? Inter Present? Interesent? Interesent. Interesent	al Imagery (I ave Surface Yes Yes Yes	Water	Stained Leaves (I RA 1, 2, 4A, and ust (B11) c Invertebrates (B gen Sulfide Odor (ged Rhizospheres a uce of Reduced Iro c Iron Reduction ir d or Stressed Plat Explain in Remar (inches): (inches): (inches):	4B)  13) (C1) along Living Rocon (C4) n Tilled Soils (C6) nts (D1) (LRR Acks)  Wetl		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Oralinage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) Shallow Aquitard (D3) SAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Project/Site: 4775 Broad way Applicant/Owner: Carrington	City	y/County:	EUq	Hom	Sampling	Date: 7/2	4/12	
Applicant/Owner: Carmaton				State: CA	Sampling	Point: #	-11	
Investigator(s):	Se	ction, Tow	nship, Rar	ige:				
Landform (hillslope, terrace, etc.):	Lo	cal relief (	of (concave, convex, none): 1, Near Slope (%): 2 39, 69"W Long: 124° 11' 00.29" W Datum:					
Subregion (LRR):	Lat: 40°	45 3	7,69"W	Long: 124° 11'	00.29 "h	Datum:		
Soil Map Unit Name:								
Are climatic / hydrologic conditions on the site typical for this				(If no, explain i	n Remarks.)			
Are Vegetation, Soil, or Hydrology sig	nificantly dis	turbed?	Are "I	Normal Circumstance	s" present?	YesN	o	
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any ans	wers in Rema	arks.)		
SUMMARY OF FINDINGS – Attach site map s	howing sa	ampling	g point lo	ocations, transed	ts, import	tant feature	s, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  No Yes No Yes No No		1	e Sampled n a Wetlan	Area d? Yes <u>L</u>	No.			
VEGETATION – Use scientific names of plants								
	Absolute D	Dominant Species?	Chatria	Dominance Test w Number of Dominan That Are OBL, FACT Total Number of Do	t Species W, or FAC:	7	(A)	
3 4				Species Across All S Percent of Dominan	Strata:		(B)	
Sapling/Shrub Stratum (Plot size:)  1. <u>Berber's darwhii</u> 2. <u>Rubus spectabilis</u> 3  4  5			NI	That Are OBL, FACY Prevalence Index v  Total % Cover of OBL species FACW species FAC species FACU species FACU species	W, or FAC:  vorksheet:  of:	1 = 2 = 3 =	<del></del>	
Herb Stratum (Plot size:  1. Ly 5; dr. ft., an Cricanus  2. Stachy 5 adjugoide 5	30 = 18 _	lotal Cov	OBL OBL	UPL species  Column Totals:  Prevalence Inc.	(A)	)		
3. Rannentus r. 4. Equischum t. 5. Juncus effustas 6. Attagrican Przapteris expansa 7. Polystichum 8. 9. 10.			FACW FACW FACW FACW	Hydrophytic Veget 1 - Rapid Test f 2 - Dominance 3 - Prevalence 4 - Morphologic	ation Indicate or Hydrophyti Test is >50% Index is ≤3.0¹ al Adaptation arks or on a sen-Vascular Pladrophytic Veg	tors: ic Vegetation  s¹ (Provide supseparate sheet) ants¹ getation¹ (Expla	nin)	
Woody Vine Stratum (Plot size:)  1  2  % Bare Ground in Herb Stratum			er 31.5/12.6  er	Hydrophytic Vegetation Present?	Yes	No		
Remarks: WI = no indicator status	(Sted							

Profile Desc	ription: (Describe	to the depth	needed to docume	ent the i	ndicator	or confirm	n the absence of indicato	ors.)
Depth	Matrix			Features	3			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	_Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-6	107R 2/1	100 -					Mudy SEL	
6-18	107R 4/1	60_	<u>5 97 5/1</u>	20	_D_	m	<u> </u>	
		. <u> </u>	107RZ/1			m		
l			7.5 YR 5/2	_8_		m		
1						1010	21 41 51	Dans Halan Manufak
	oncentration, D=Dep Indicators: (Applic					d Sand Gi		Pore Lining, M=Matrix. Diematic Hydric Soils³:
Histosol			Sandy Redox (St		.,		2 cm Muck (A1	•
	oipedon (A2)	<u></u>	_ Stripped Matrix (\$				Red Parent Ma	
Black Hi			Loamy Mucky Mi		) (except	MLRA 1)		ark Surface (TF12)
	en Sulfide (A4)		_ Loamy Gleyed M	•	, , -	,	Other (Explain	
	d Below Dark Surfac		∠ Depleted Matrix (	•				
Thick Da	ark Surface (A12)		_ Redox Dark Surfa				-	ohytic vegetation and
	lucky Mineral (S1)		_ Depleted Dark Su	•	7)			y must be present,
	Bleyed Matrix (S4)		_ Redox Depression	ons (F8)			unless disturbed	or problematic.
	Layer (if present):							_
Type:	-l \·						Livelyie Call Dynamant?	Van Na
	ches):		<del></del>				Hydric Soil Present?	Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	ne required;	check all that apply)	)			Secondary Indica	ators (2 or more required)
	Water (A1)		Water-Stain		es (B9) ( <b>e</b>	xcept	Water-Staine	ed Leaves (B9) ( <b>MLRA 1, 2,</b>
	ater Table (A2)		MLRA 1			•	4A, and 4	
Saturation	, ,		Salt Crust (f		•		Drainage Pa	tterns (B10)
Water M	larks (B1)		Aquatic Inve	ertebrate	s (B13)		Dry-Season	Water Table (C2)
	nt Deposits (B2)		Hydrogen S	ulfide Od	dor (C1)		Saturation V	sible on Aerial Imagery (C9)
	posits (B3)		Oxidized Rh			Living Roo	ots (C3) Ceomorphic	Position (D2)
Algal Ma	at or Crust (B4)		Presence of	f Reduce	d Iron (C	<b>!</b> )	Shallow Aqu	itard (D3)
Iron Dep	oosits (B5)		Recent Iron	Reduction	on in Tille	d Soils (C	6) <u>L</u> FAC-Neutral	Test (D5)
Surface	Soil Cracks (B6)		Stunted or S	Stressed	Plants (D	1) (LRR A		Nounds (D6) (LRR A)
Inundati	on Visible on Aerial I	magery (B7)	Other (Expla	ain in Re	marks)		Frost-Heave	Hummocks (D7)
Sparsely	y Vegetated Concave	e Surface (B8	3)					
Field Obser		,	0 /		U "			
Surface Wat	er Present? Y	es No	Depth (incl	nes):	716	_		
Water Table	Present? Y	es No	Depth (incl	nes):	/ 0			
Saturation P		es <u> </u>	Depth (incl	nes):	9.6"	WetI	and Hydrology Present?	Yes No
Uncludes cap Describe Re	pillary fringe) corded Data (stream	gauge, moni	itoring well, aerial pl	notos pr	evious ins	pections)	if available:	
2000/100 110	ss. dod Bala (bliodiii	gaago, 1110111	g Holl, dorldi pi	.5.00, pr	1110	- 20110110)1		
Remarks:								

WETLAND DETERM					•	-	_	
Project/Site: 4775 Broadure Applicant/Owner: Carryfan	ry	(	City/County:	EUq	& Hem	Sampli	ng Date: _	7/24/13
Applicant/Owner: Carrington	<u>/</u>				State: <u>C</u>	CA Sampli	ng Point:	#12
Investigator(s): 5 P 4 5 C			Section, To	wnship, Rar	nge:			
Landform (hillslope, terrace, etc.):			Local relief	(concave, c	convex, none):	Inear	Slo	pe (%): <u>£</u>
Subregion (LRR):		Lat:	5ee 1	#11	Long:		Datu	ım:
Soil Map Unit Name:								
Are climatic / hydrologic conditions on the								. /
Are Vegetation, Soil, or Hyd						· stances" present?		No
Are Vegetation, Soil, or Hyd						ny answers in Re		
SUMMARY OF FINDINGS – Atta				g point le	ocations, tra	ansects, impo	ortant fe	atures, etc.
	Yes		<u> </u>		· · · · · · · · · · · · · · · · · · ·	·		<u> </u>
1	Yes 🔽	No		e Sampled	Area	YesN		
1 ·	Yes	No	with	in a Wetlan	d?	YesN	o	
Remarks:			· · · · · · · · · · · · · · · · · · ·					
-								
VEGETATION – Use scientific n	ames of pla							
Tree Stratum (Plot size:	)	Absolute % Cover	Dominant Species?			Test worksheet:	1-	1
1. 5a(; X h,				FACW		ominant Species ., FACW, or FAC:		(A)
2.						of Dominant	C'a	>
3					Species Acro			(B)
4					Percent of Do	minant Species	Q	/**)
Out II (Ol of Ottobur (District	,		= Total Co	ver		., FACW, or FAC:		(A/B)
Sapling/Shrub Stratum (Plot size:		35		FACY	Prevalence I	ndex worksheet:		
2. spec.		- 1Z	-V	FAC	Total % (	Cover of:	Multipl	ly by:
3. V groneracus		19	ーレ	FACY	1	·		
4. Low-cera involuct		12		FAC		es		
5.								
		_51_	= Total Co	ver		s		
Herb Stratum (Plot size:	_)	20	1/	FAW	1	s: (		
2. Blechnum spicant				FAC				
3. Equisetum to		10		FACW		nce Index = B/A : Vegetation India		
4. Rubus u.				FALU		Test for Hydroph		tation
5.						nance Test is >50	-	.auom
6						lence Index is ≤3		
7			-		4 - Morpl	nological Adaptati	ons¹ (Prov	/ide supporting
8					1	n Remarks or on a		sheet)
9						nd Non-Vascular		1 (=
10.						atic Hydrophytic V hydric soil and w		
11	<del></del>	<u> </u>		4851		nless disturbed o		
Woody Vine Stratum (Plot size:	)		= Total Co\	ver 48.5/14.4				
1			*****		Hydrophytic	r.		
2					Vegetation	y ( /	/ <sub>N-</sub>	
N/ Dana Consum dia 11 1 Constant			= Total Cov	/er	Present?	res	NO	<del></del>
% Bare Ground in Herb Stratum								
. Comuno.								

Type: C=Concentrate Hydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Restrictive Layer (iff Type: Depth (inches): Remarks:  YDROLOGY Wetland Hydrology Primary Indicators (m) Surface Water (A)	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	Covered of wise noted. (S5) (S6) (S6) (Matrix (F2) (F3) (F3) (F3) (F3) (F4) (F6) (F6) (F7)	or Coated S		Indicators fo 2 cm Muc Red Pare Very Sha Other (Ex)  Indicators of wetland by	ent Material (TF2) Illow Dark Surface (TF12) Explain in Remarks)  hydrophytic vegetation and Evdrology must be present, turbed or problematic.
ydric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY fetland Hydrology rimary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	letion, RM= able to all I	Reduced Matrix, CS LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M	Sand Gra	ains. <sup>2</sup> Location Indicators fo  2 cm Mu Red Pare Very Sha Other (Ex	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) ellow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY  etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	letion, RM= able to all I	Reduced Matrix, CS LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M	Sand Gra	ains. <sup>2</sup> Location indicators fo 2 cm Mu Red Pare Very Sha Other (Ex)  Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) ellow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY  etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	letion, RM= able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		ains. <sup>2</sup> Location indicators fo 2 cm Mu Red Pare Very Sha Other (Ex)  Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) ellow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Demarks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) ellow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Sandy Mucky Mi Sandy Gleyed M Histrictive Layer (If Type: Depth (inches): Harris DROLOGY Hetland Hydrology Historic Water (A	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) ellow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
dric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Strictive Layer (if Type: Depth (inches): marks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
dric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Strictive Layer (if Type: Depth (inches): marks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Demarks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Demarks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
rdric Soil Indicato Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Demarks:  DROLOGY etland Hydrology imary Indicators (m	A2)  (A4)  Oark Surface (A12)  heral (S1)  atrix (S4)  present):	able to all I	LRRs, unless other Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	wise noted. (55) (56) Jineral (F1) ( Matrix (F2) (F3) (F3) Jace (F6) Surface (F7)	l.) (except M		Indicators fo  2 cm Mu Red Pare Very Sha Other (E:   Indicators of wetland hy unless dis	r Problematic Hydric Soils <sup>3</sup> : ck (A10) ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Demarks:  DROLOGY etland Hydrology imary Indicators (m	A2) (A4) Dark Surface ce (A12) neral (S1) atrix (S4) present):	e (A11)	Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	55) (S6) Iineral (F1) ( Matrix (F2) (F3) (F3) face (F6) Surface (F7)	(except M	ILRA 1)	2 cm Muc Red Pare Very Sha Other (Ex <sup>3</sup> Indicators of wetland hy unless dis	ck (A10) ent Material (TF2) ellow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and ydrology must be present, turbed or problematic.
Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY etland Hydrology imary Indicators (m	(A4) Dark Surface ce (A12) neral (S1) atrix (S4) present):		Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	(S6) lineral (F1) ( Matrix (F2) (F3) face (F6) Surface (F7)		ILRA 1)	Red Pare Very Sha Other (Example 2)    3Indicators of wetland hy unless dis	ent Material (TF2) Illow Dark Surface (TF12) Explain in Remarks)  hydrophytic vegetation and Evdrology must be present, turbed or problematic.
Black Histic (A3) Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY etland Hydrology imary Indicators (m	(A4) Dark Surface ce (A12) neral (S1) atrix (S4) present):		Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	lineral (F1) ( Matrix (F2) (F3) face (F6) Surface (F7)		ILRA 1)	Very Sha Other (Ex <sup>3</sup> Indicators of wetland hy unless dis	Allow Dark Surface (TF12)  Applain in Remarks)  Hydrophytic vegetation and  Advorlogy must be present,  turbed or problematic.
Hydrogen Sulfide Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Emarks:  DROLOGY etland Hydrology imary Indicators (m	Dark Surface ce (A12) neral (S1) atrix (S4) present):		Loamy Gleyed Model   Depleted Matrix   Redox Dark Sur   Depleted Dark Sur   Redox Depressi	Matrix (F2) (F3) face (F6) Surface (F7)		ilka I)	Other (Example 2) Other of wetland hy unless dis	hydrophytic vegetation and ydrology must be present, turbed or problematic.
Depleted Below I Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M estrictive Layer (if Type: Depth (inches): emarks:  DROLOGY  etland Hydrology imary Indicators (m Surface Water (A	Dark Surface ce (A12) neral (S1) atrix (S4) present):		Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	(F3) face (F6) Surface (F7)	)		<sup>3</sup> Indicators of wetland hy unless dis	hydrophytic vegetation and ydrology must be present, turbed or problematic.
Thick Dark Surfa Sandy Mucky Min Sandy Gleyed M estrictive Layer (if Type: Depth (inches): Emarks:  DROLOGY etland Hydrology imary Indicators (m Surface Water (A	ce (A12) neral (S1) atrix (S4) present):		Redox Dark Sur Depleted Dark S Redox Depressi	face (F6) Surface (F7)	)		wetland hy unless dis	ydrology must be present, turbed or problematic.
Sandy Mucky Min Sandy Gleyed Modestrictive Layer (iffortype:	neral (S1) atrix (S4) present):		Depleted Dark S Redox Depressi	Surface (F7)	)		wetland hy unless dis	ydrology must be present, turbed or problematic.
Sandy Gleyed Mestrictive Layer (if Type: Depth (inches): emarks:  **TOROLOGY**  Tetland Hydrology  rimary Indicators (m.)  Surface Water (A.)	atrix (S4) present):		Redox Depressi					
Type: Depth (inches): emarks:  DROLOGY  etland Hydrology imary Indicators (m	-						Hydric Soil Pres	sent? Yes No
Depth (inches):emarks:  DROLOGY  etland Hydrology imary Indicators (m							Hydric Soil Pres	sent? Yes No
DROLOGY etland Hydrology imary Indicators (m			-				Hydric Soil Pres	sent? Yes No
DROLOGY  etland Hydrology  imary Indicators (m							1	
imary Indicators (m Surface Water (A								
Surface Water (A		ne required	d: check all that annly	<i>(</i> )			Secondary	Indicators (2 or more required)
		ne required		ned Leaves	(RQ) (avc	ont		-Stained Leaves (B9) (MLRA 1, 2,
				1, 2, 4A, and		ehr		, and 4B)
_ High Water Table ✓ Saturation (A3)	; (A2)		Salt Crust		u 4 <b>D</b> )			age Patterns (B10)
_ Saturation (A3) _ Water Marks (B1	١		Aquatic Inv		(B13)			eason Water Table (C2)
_ Sediment Depos			Hydrogen					ation Visible on Aerial Imagery (C9
_ Drift Deposits (B					, ,	vina Roo		orphic Position (D2)
_ Algal Mat or Cru			Presence of			,g		w Aquitard (D3)
/ Iron Deposits (B			Recent Iro			Soils (C6		Veutral Test (D5)
_ Surface Soil Cra			Stunted or				•	d Ant Mounds (D6) (LRR A)
Inundation Visibl		magery (B7				•	-	Heave Hummocks (D7)
– _ Sparsely Vegeta					•			
ield Observations:					, 4	T		
urface Water Prese	nt? Y	es 🕌 I	No Depth (ind	ches):	8	_		
ater Table Present	? Y	es l	No Depth (inc	ches):		_		1/
aturation Present? ncludes capillary fri			No Depth (inc		rface_	Wetla	and Hydrology Pre	esent? Yes No
escribe Recorded D	ata (stream	gauge, mo	onitoring well, aerial p	ohotos, prev	vious inspe	ections),	if available:	
la ma a nica :								
Remarks:								

Project/Site: 4775 Broadway		City/County	Ella	Hum	Sampling D	ate: 7/2	4/12
Applicant/Owner: Carrington				State: <u>CA</u>	Sampling P	oint: <u># /</u>	3
Investigator(s): 5P 9-5C		Section, To	wnship, Ran	ge:			
Landform (hillslope, terrace, etc.):		Local relie	f (concave. c	onvex, none): Con	vex	Slope (%):	18
Subregion (LRR):	Lat:		,	Long:		Datum:	
Soil Map Unit Name:							
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology				Normal Circumstances		s U <sub>N</sub>	)
Are Vegetation, Soil, or Hydrology				eded, explain any ansv			
SUMMARY OF FINDINGS – Attach site map			`	•		·	s, etc.
Hydrophytic Vegetation Present? Yes							
		ls th	ne Sampled			Commence	
Hydric Soil Present? Yes   Wetland Hydrology Present? Yes	No	with	nin a Wetlan	d? Yes	No		
VEGETATION - Use scientific names of plan	nts.						
	Absolute		t Indicator	Dominance Test wo	rksheet:	ary .	
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant That Are OBL, FACV		)	(A)
1. Ilex aquifolium 2. Salix h.	- <del>- 7</del> (		FACW	That Are Obl., FACV	v, or FAC	<b>-</b>	(^)
3				Total Number of Don Species Across All S		3	(B)
4				•			` '
	41	_ = Total Co	over	Percent of Dominant That Are OBL, FACV		100	(A/B)
Sapling/Shrub Stratum (Plot size:)	~	1/	FAC	Prevalence Index w	orksheet:		
1. Rubus Speat.				Total % Cover o	<u>f:                                     </u>	Aultiply by:	_
2				OBL species			
3			-	FACW species			
5.				FAC species			
	3	= Total C	over	FACU species			
Herb Stratum (Plot size:)	/ع		F4c	Column Totals:	<del></del>		
1. Holcus l.	_ ~ (		+ 11/11/				
2. Equiserum t. 3. Ranunculus ro	- <del>40</del>	- <del></del>	FAC	Prevalence Ind			
4. Plantage l.			FACY	Hydrophytic Vegeta 1 - Rapid Test fo			
5.				2 - Dominance		vogotation	
6.				3 - Prevalence I			
7.				4 - Morphologica		(Provide sup	porting
8 9				5 - Wetland Nor	•		
10			-	Problematic Hyd	drophytic Veget	tation¹ (Expla	ıin)
11.				<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrology i	must
	83	_= Total Co	over 11.5/13.6	be present, unless d	isturbed or prol	blematic.	
Woody Vine Stratum (Plot size:)			£ .				
1				Hydrophytic Vegetation			
2		= Total Co		Present?	Yes	No	
% Bare Ground in Herb Stratum	***	_					
Remarks: Whoth shap + shalp	fam.	trep 5	Plus	car paction	allow 5	soil to	
Remarks: North Slope + shade remain monst + there	FAC P	Max 15 a	verit 9	ved wetlan	e chatica	tors	

Profile Description: (Descri		Podo	x Feature				
Depth Matrix (inches) Color (moist)	%	Color (moist)	<u>x reature</u> %	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
D-144" 107R 2/	1 100		-	·		56	
14-192" 104R 2/	60	107R 5/6	5	$\overline{C}$	m		
107K 4	2 35	10 11 3/6			Vrt		
	<u> </u>						
						· · · · · · · · · · · · · · · · · · ·	
Type: C=Concentration, D=D					ed Sand Gr		ocation: PL=Pore Lining, M=Matrix.
lydric Soll Indicators: (App	licable to all	LRRs, unless other	wise not	ted.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S					m Muck (A10)
Histic Epipedon (A2)		Stripped Matrix					d Parent Material (TF2)
Black Histic (A3)		Loamy Mucky N			t MLRA 1)		ry Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	' (AAA)	Loamy Gleyed		2)		Oti	her (Explain in Remarks)
Depleted Below Dark Sur	ace (A11)	Depleted Matrix Redox Dark Su		١		<sup>3</sup> Indicat	tors of hydrophytic vegetation and
<ul><li>Thick Dark Surface (A12)</li><li>Sandy Mucky Mineral (S1</li></ul>	١	Depleted Dark Su		•			and hydrology must be present,
Sandy Mucky Mineral (31) Sandy Gleyed Matrix (S4)		Redox Depress	,	•			ess disturbed or problematic.
Restrictive Layer (if present			(/				
Type:	•						
Depth (inches):						Hydric So	il Present? Yes No 🖳
						11,741.1000	
Remarks: YDROLOGY							
Remarks: YDROLOGY Wetland Hydrology Indicato	rs:		w)				ondary Indicators (2 or more required
Remarks:  YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum o	rs:	d; check all that appl		(os (BQ) (	veent	Seco	ondary Indicators (2 or more required
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the control	rs:	d; check all that appl Water-Sta	ined Leav		except	Seco	Water-Stained Leaves (B9) (MLRA 1
YDROLOGY  Vetland Hydrology Indicato  Primary Indicators (minimum of the control	rs:	d; check all that appl Water-Sta MLRA	ined Leav <b>1, 2, 4A,</b>		except	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
YDROLOGY  Vetland Hydrology Indicato  Primary Indicators (minimum of the content	rs:	d; check all that appl Water-Sta <b>MLRA</b> Salt Crust	ined Leav <b>1, 2, 4A,</b> (B11)	and 4B)	except	Seco	Water-Stained Leaves (B9) ( <b>MLRA 1</b> <b>4A, and 4B)</b> Drainage Patterns (B10)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the content	rs:	d; check all that appl Water-Sta <b>MLRA</b> Salt Crust Aquatic In	ined Leav <b>1, 2, 4A,</b> (B11) vertebrate	and 4B) es (B13)	except	Seco	Water-Stained Leaves (B9) ( <b>MLRA 1 4A, and 4B)</b> Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY  Vetland Hydrology Indicato  Primary Indicators (minimum of the content	rs:	d; check all that appl  — Water-Sta  MLRA — Salt Crust — Aquatic In — Hydrogen	ined Leav <b>1, 2, 4A,</b> (B11) vertebrate Sulfide O	and 4B) es (B13) Odor (C1)		Sect	Water-Stained Leaves (B9) ( <b>MLRA 1 4A, and 4B)</b> Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
YDROLOGY  Vetland Hydrology Indicato  Primary Indicators (minimum of the content	rs:	d; check all that appl Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe	and 4B) es (B13) Odor (C1) eres along	Living Roo	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)
YDROLOGY  Vetland Hydrology Indicato  Primary Indicators (minimum of the content	rs:	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduc	and 4B) es (B13) odor (C1) eres along ed Iron (C	Living Roo 4)	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOGY  Netland Hydrology Indicato Primary Indicators (minimum of the content o	rs:	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Iro	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reduction Reduction	and 4B) es (B13) Odor (C1) eres along ed Iron (C	Living Roo 4) ad Soils (Ce	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Netland Hydrology Indicator Primary Indicators (minimum of the second of the	rs: of one require	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Ird  Stunted or	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reduce Reducer Stressed	and 4B) es (B13) odor (C1) eres along ed Iron (C tion in Tille d Plants (I	Living Roo 4) ad Soils (Ce		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the content	rs: of one require	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Ird  Stunted or	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reduce Reducer Stressed	and 4B) es (B13) odor (C1) eres along ed Iron (C tion in Tille d Plants (I	Living Roo 4) ad Soils (Ce		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the second of the	rs: of one require	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Ird  Stunted or	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reduce Reducer Stressed	and 4B) es (B13) odor (C1) eres along ed Iron (C tion in Tille d Plants (I	Living Roo 4) ad Soils (Ce		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Netland Hydrology Indicato Primary Indicators (minimum of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Concertications:	rs: of one require al Imagery (B ave Surface (	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Iro  Stunted or  TO  (B8)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe on Reductor Stressed plain in Reference Control Reductor C	and 4B) es (B13) dor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) ad Soils (Ce 01) (LRR A		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Concertications:  Surface Water Present?	rs:  of one require  al Imagery (B  ave Surface (	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Iro  Stunted or  Other (Exp. 188)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reduction Reductor Stressed plain in Redu	es (B13) Dodor (C1) Beres along Ed Iron (C Stion in Tille Did Plants (I Semarks)	Living Roo 4) ed Soils (Ce 01) (LRR A		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Concertications:  Surface Water Present?  Water Table Present?	rs:  of one require  al Imagery (B  ave Surface (  Yes  Yes	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Irc  Stunted or  Other (Exp	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide Con Reduction Reduc	es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) d Soils (Co 01) (LRR A	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Conce  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?	rs:  of one require  al Imagery (B  ave Surface (  Yes  Yes	d; check all that appl  Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Iro  Stunted or  Other (Exp. 188)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide Con Reduction Reduc	es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) d Soils (Co 01) (LRR A	Seco	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Concertication Field Observations: Surface Water Present? Water Table Present? Saturation Present? (Includes capillary fringe)	al Imagery (Bave Surface (YesYes	d; check all that appl  Water-Sta MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Irc  Stunted or  Other (Expense)  No Depth (in one of the content or other)  No Depth (in one of the content or other)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reducton Reductor Stressed plain in Reduc	es (B13) Ddor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) ad Soils (C6 01) (LRR A	Secondary Second	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Wetland Hydrology Indicato  Primary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Concertications:  Surface Water Present?  Water Table Present?	al Imagery (Bave Surface (YesYes	d; check all that appl  Water-Sta MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Irc  Stunted or  Other (Expense)  No Depth (in one of the content or other)  No Depth (in one of the content or other)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reducton Reductor Stressed plain in Reduc	es (B13) Ddor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) ad Soils (C6 01) (LRR A	Secondary Second	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Concertication Field Observations: Surface Water Present? Water Table Present? Saturation Present? (Includes capillary fringe)	al Imagery (Bave Surface (YesYes	d; check all that appl  Water-Sta MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Irc  Stunted or  Other (Expense)  No Depth (in one of the content or other)  No Depth (in one of the content or other)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reducton Reductor Stressed plain in Reduc	es (B13) Ddor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) ad Soils (C6 01) (LRR A	Secondary Second	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Proposits (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer Sparsely Vegetated Concerted Observations:  Surface Water Present?  Water Table Present?  Saturation Present?	al Imagery (Bave Surface (YesYes	d; check all that appl  Water-Sta MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized F  Presence  Recent Irc  Stunted or  Other (Expense)  No Depth (in one of the content or other)  No Depth (in one of the content or other)	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide ORhizosphe of Reducton Reductor Stressed plain in Reduc	es (B13) Ddor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	Living Roo 4) ad Soils (C6 01) (LRR A	Secondary Second	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Line Research		Cl.	h e	14 12
Project/Site: 4775 B and way Applicant/Owner: Carrington	(	City/County:	11-(vm	Sampling Date: // (//
Investigator(s): SPASE				
Landform (hillslope, terrace, etc.):		Local relief (concave,	convex, none): <u>Can u</u>	<u>reX</u> Slope (%): <u>1 8</u>
Subregion (LRR):	Lat:		_ Long:	Datum:
Soil Map Unit Name:			NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical f	or this time of yea			
Are Vegetation, Soil, or Hydrology	significantly	disturbed? Are	'Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site n	nap showing	sampling point l	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No			
Hydric Soil Present? Yes	_ No	Is the Sampled within a Wetlar	i Area nd? Yes	No
Hydric Soil Present?  Wetland Hydrology Present?  Remarks:   A	No		100	
Remarks: Previous grazing des	turbana	<i>- e</i>		
VEGETATION – Use scientific names of	plants.			
	Absolute	Dominant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size:) 1		Species? Status	Number of Dominant S That Are OBL, FACW,	'
2			Total Number of Domi	Baconin
4			Percent of Dominant S	Species //
Sapling/Shrub Stratum (Plot size:)		_ = Total Cover	That Are OBL, FACW,	
1.			Prevalence Index wo	
2			Total % Cover of:	Multiply by: x 1 =
3				x2=
4				x 3 =
5			1	x 4 =
Herb Stratum (Plot size:)	<del>4.</del>	_ = Total Cover	1	x 5 =
1. Juneus C.	10	FRW	Column Totals:	(A) (B)
2. Plantago 1.	6	FAC	Prevalence Inde	x = B/A =
3. Egyisetum +.	70	V FACW	Hydrophytic Vegetat	
4. Ranunculus F.	40	- FAC	1	Hydrophytic Vegetation
5. Holcus l.		FAC	2 - Dominance Te	st is >50%
6			3 - Prevalence Inc	lex is ≤3.0 <sup>1</sup>
7. 8.	,		4 - Morphological data in Remark	Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)
9.			5 - Wetland Non-\	/ascular Plants <sup>1</sup>
10.			Problematic Hydro	ophytic Vegetation¹ (Explain)
11			1	oil and wetland hydrology must
Woody Vine Stratum (Plot size:)	146	_= Total Cover 73/29.1	be present, unless dis	turbed of problematic.
1			Hydrophytic	
2			Vegetation	
1		_= Total Cover	Present? Ye	es No
% Bare Ground in Herb Stratum				
Remarks: Surrounded by deal	& Cascara	reer-s	(umproc?	
İ '		, ,		

-			
	<i>,</i> ,		

	cription: (Describe		oth needed to docur	nent the I	naicator '	JI COMMIN	i tile absence	of maleators.)
Depth	Matrix		Redo	x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
8.01-0	104R 2/1	100					<u> </u>	
(0.8-16.2	215 y 3/2	<u> </u>	2,5 76/2	17		m		
			10 YR 2/1	ł	C	m		
16.2-18	2.5 y 3/3	60	107R 2/1		$\overline{C}$	m		
1010	C1 / 111			15	<u></u>	m	<del></del>	Market Ma
			P. ( 0 11/2	. <u> </u>	<u> </u>			
			5 4K 4/6	<u> </u>		m		
			7,574/4	15		<u>~~</u>		
-								
			=Reduced Matrix, CS LRRs, unless other			d Sand Gr	ains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.  ors for Problematic Hydric Soils <sup>3</sup> :
=		Jable to all			eu.,			n Muck (A10)
Histosol	pipedon (A2)	-	Sandy Redox (					Parent Material (TF2)
	listic (A3)		Loamy Mucky M		1) (except	MLRA 1)		y Shallow Dark Surface (TF12)
	en Sulfide (A4)		Loamy Gleyed	•				er (Explain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Matrix		•			,
Thick Da	ark Surface (A12)		Redox Dark Su					ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark		7)			nd hydrology must be present,
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			unles	s disturbed or problematic.
	Layer (if present):							
Type:								
Depth (in	nches):						Hydric Soil	Present? Yes No
	OGY ydrology Indicators							,
Wetland Hy	drology Indicators		ed; check all that app	(y)			Seco	ndary Indicators (2 or more required)
<b>Wetland Hy</b> Primary Indi	drology Indicators		ed; check all that app		es (B9) ( <b>e</b>	xcept		ndary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi Surface	drology Indicators		Water-Sta			xcept		
Wetland Hy Primary Indi Surface	rdrology Indicators icators (minimum of o Water (A1) ater Table (A2)		Water-Sta	ined Leav <b>1, 2, 4A,</b> a		xcept	V	Vater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi Surface High Wi	rdrology Indicators icators (minimum of o Water (A1) ater Table (A2)		Water-Sta	ined Leav <b>1, 2, 4A,</b> a (B11)	and 4B)	xcept	v c	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Wetland Hy Primary Indi Surface High Wa Saturati Water N	rdrology Indicators icators (minimum of o Water (A1) ater Table (A2) ion (A3)		Water-Sta MLRA Salt Crust	ined Leav <b>1, 2, 4A, a</b> (B11) vertebrate	and 4B) es (B13)	xcept	V C S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Wa Saturati Water N	rdrology Indicators icators (minimum of o Water (A1) ater Table (A2) ion (A3) Marks (B1)		Water-Sta  MLRA Salt Crust Aquatic In Hydrogen Oxidized I	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe	and 4B) es (B13) dor (C1) eres along	Living Roc	V C C S ots (C3) C	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De	rdrology Indicators icators (minimum of o Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) eres along ed Iron (C	Living Roo 1)	V C C S ots (C3) S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal M	rdrology Indicators icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) ant Deposits (B2) aposits (B3) lat or Crust (B4) posits (B5)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	es (B13) dor (C1) eres along ed Iron (Co	Living Roc 4) d Soils (C6	V C S ots (C3) S S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal M Iron De	rdrology Indicators icators (minimum of a Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) eposits (B5) e Soil Cracks (B6)	one require	Water-Sta  MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro Stunted o	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed	es (B13) dor (C1) res along ed Iron (C- ion in Tille Plants (C	Living Roc 4) d Soils (C6	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Staturation Visible on Aerial Imagery (C9)  Seomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Inundat	rdrology Indicators icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerial	one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed	es (B13) dor (C1) res along ed Iron (C- ion in Tille Plants (C	Living Roc 4) d Soils (C6	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel	rdrology Indicators icators (minimum of of the Water (A1) inter Table (A2) ion (A3) Marks (B1) iont Deposits (B2) ionsits (B3) iat or Crust (B4) iposits (B5) io Soil Cracks (B6) ition Visible on Aerial ly Vegetated Concav	one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed	es (B13) dor (C1) res along ed Iron (C- ion in Tille Plants (C	Living Roc 4) d Soils (C6	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Staturation Visible on Aerial Imagery (C9)  Seomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel	rdrology Indicators icators (minimum of of other particular) atter Table (A2) ion (A3) Marks (B1) and Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5) a Soil Cracks (B6) tion Visible on Aerial ly Vegetated Concav	one require Imagery (E ve Surface	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Iro  Stunted o  37)  Other (Ex	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roo 1) d Soils (C6 1) (LRR A	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Staturation Visible on Aerial Imagery (C9)  Seomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obsel	rdrology Indicators icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerial ly Vegetated Concavervations: ater Present?	one require Imagery (E /e Surface Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C emarks)	Living Roo 4) d Soils (C6 1) (LRR A	V C S ots (C3) S S S) F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Staturation Visible on Aerial Imagery (C9)  Seomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obser Surface Water Table	rdrology Indicators icators (minimum of of other (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerial ly Vegetated Concaverations: other Present?	Imagery (Eve Surface	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roo 4) d Soils (C6 1) (LRR A	— V — E — C — S Ots (C3) — G — S G) — F — F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obser Surface Water Table Saturation F	rdrology Indicators icators (minimum of of the later (A1) atter Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerial ly Vegetated Concavervations: atter Present? e Present?	Imagery (Eve Surface	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roo 4) d Soils (C6 1) (LRR A	— V — E — C — S Ots (C3) — G — S G) — F — F	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Staturation Visible on Aerial Imagery (C9)  Seomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obsel Surface Wa Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of of the second of t	Imagery (E /e Surface  Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re uches): uches): uches):	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roc  4) d Soils (C6 1) (LRR A	V E S ots (C3) S S S) F F and Hydrolog	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Algal Moleon Iron De Surface Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of of the second of t	Imagery (E /e Surface  Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir  No Depth (ir  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re uches): uches): uches):	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roc  4) d Soils (C6 1) (LRR A	V E S ots (C3) S S S) F F and Hydrolog	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indi  Surface High Wa Saturati Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of of the second of t	Imagery (E /e Surface  Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir  No Depth (ir  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re uches): uches): uches):	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roc  4) d Soils (C6 1) (LRR A	V E S ots (C3) S S S) F F and Hydrolog	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Algal M Iron De Surface Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of of the second of t	Imagery (E /e Surface  Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir  No Depth (ir  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re uches): uches): uches):	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roc  4) d Soils (C6 1) (LRR A	V E S ots (C3) S S S) F F and Hydrolog	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Algal Molern Iron De Surface Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of of the second of t	Imagery (E /e Surface  Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted o  Other (Ex  (B8)  No Depth (ir  No Depth (ir  No Depth (ir	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re uches): uches): uches):	es (B13) dor (C1) eres along ed Iron (C- ion in Tille Plants (C- emarks)	Living Roc  4) d Soils (C6 1) (LRR A	V E S ots (C3) S S S) F F and Hydrolog	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: 4775 Broadway, EVG	ã (	City/County: EU	9/Hvm Sampling Date: 7/24/1 State: CA Sampling Point: 4/5
Applicant/Owner: Carrington			State: CA Sampling Point: #15
1 A C- 1			Range:
Landform (hillslope, terrace, etc.):		Local relief (concave	e. convex. none): \[ \langle n = 9 \in \text{Slope (%): } \frac{1}{2} \]
Subregion (LRR):	Lat: 40°	945135.751	e, convex, none): <u>(heq</u> Slope (%): <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical for th			(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			re "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			needed, explain any answers in Remarks.)
-			t locations, transects, important features, etc
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	No	Is the Sampl within a Wet	i /
VEGETATION – Use scientific names of plan	nts.		
<u>Tree Stratum</u> (Plot size:) 1		Species? Status	
3.			Total Number of Dominant Species Across All Strata: (B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Rubus urshus 2. Rubus discher armenialus 3. 4. 5. Herb Stratum (Plot size:)	<u></u>	V FACI	Prevalence Index worksheet:   Total % Cover of:   Multiply by:
1. Argenting q. 2. Scirpus microcarpus 3. Tuncus e.	- <u>- 72</u> - <u>- 8</u> - 45	BBL FACE	Prevalence Index = B/A = 2.22
4. Plantagol. 5. Ranuncolos C. 6. Holous 1. 7. Stachys a. 8.	16	FAC FAC FAC OBL	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)  1  2  % Bare Ground in Herb Stratum			Hydrophytic Vegetation Present? Yes No
Remarks:			

Sampling Point: <u>#15</u>

Depth <u>Matrix</u>	Redox		1 . 3		
(inches) Color (moist) %	Color (moist)	<u>% Typ</u>	e <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-7.2 (OYR 41 (06				muchy SCL	
72-192" 10 YRZ/1 84	SYR 3/4	19 C	<u> </u>	SCL.	
542/4	2,54 4/4	7 (	- m		
January withous de of the opening was a far.					
	-				
<sup>1</sup> Type: C=Concentration, D=Depletion, RN			oated Sand Gr		ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless otherw	vise noted.)		Indicator	s for Problematic Hydric Soils³:
Histosol (A1)	Sandy Redox (St				Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (	•			Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mi		cept MLRA 1)		Shallow Dark Surface (TF12)
<ul><li>Hydrogen Sulfide (A4)</li><li>Depleted Below Dark Surface (A11)</li></ul>	Loamy Gleyed M Depleted Matrix (			Othe	r (Explain in Remarks)
Thick Dark Surface (A11)	Redox Dark Surf			3Indicator	s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark St				d hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depression	ons (F8)		unless	disturbed or problematic.
Restrictive Layer (if present):					
Type:					1/
Depth (inches):				Hydric Soil I	Present? Yes No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:					
					dary Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requir  Surface Water (A1)	Water-Stain	ned Leaves (B9			ater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)	Water-Stain	ned Leaves (B9 , <b>2, 4A, and 4</b>		W	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stain MLRA 1 Salt Crust (I	ned Leaves (B9 , <b>2, 4A, and 4</b> B11)	3)	W	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve	ned Leaves (B9, 2, 4A, and 4BB11) ertebrates (B13	<b>3)</b> 3)	Wi Dr Dr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required one sequent of the se	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S	ned Leaves (B9, 2, 4A, and 4BB11) ertebrates (B13 Gulfide Odor (C	3) 3) 1)	Wi Dr Sa	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh	ned Leaves (B9, , <b>2, 4A, and 4</b> 1, B11) ertebrates (B1; Gulfide Odor (Chizospheres ald	3) 3) 1) ong Living Roo	Wi Dr Sa ots (C3) Ge	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence of	ned Leaves (BS , <b>2, 4A, and 4f</b> B11) ertebrates (B13 Sulfide Odor (C hizospheres ald f Reduced Iron	3) 1) 2) 2) 3) 1) 2) 3) 4) 4) 6) 6) 6) 7) 7) 7) 8)	Wi Dr Sa ots (C3) Ge Sh	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) atturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	ned Leaves (BS, , 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron	B) 1) cong Living Rocal (C4) Filled Soils (C4)	Wi Dr Sa ots (C3) Ge Sh FA	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ecomorphic Position (D2) allow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Stunted or S	ned Leaves (B9, 2, 4A, and 4B, B11) ertebrates (B1; Gulfide Odor (Chizospheres ald f Reduced Iron Reduction in Stressed Plant	B) 1) ong Living Roo (C4) Filled Soils (C6) s (D1) (LRR A	Wi Dr Sa ots (C3) Ge Sr 6) FA	Atter-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  ainage Patterns (B10)  y-Season Water Table (C2)  attration Visible on Aerial Imagery (C9)  becomorphic Position (D2)  allow Aquitard (D3)  C-Neutral Test (D5)  aised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Stunted or S B7) Other (Expl	ned Leaves (BS, , 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron	B) 1) ong Living Roo (C4) Filled Soils (C6) s (D1) (LRR A	Wi Dr Sa ots (C3) Ge Sr 6) FA	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ecomorphic Position (D2) allow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Stunted or S B7) Other (Expl	ned Leaves (B9, 2, 4A, and 4B, B11) ertebrates (B1; Gulfide Odor (Chizospheres ald f Reduced Iron Reduction in Stressed Plant	B) 1) ong Living Roo (C4) Filled Soils (C6) s (D1) (LRR A	Wi Dr Sa ots (C3) Ge Sr 6) FA	Atter-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  ainage Patterns (B10)  y-Season Water Table (C2)  attration Visible on Aerial Imagery (C9)  becomorphic Position (D2)  allow Aquitard (D3)  C-Neutral Test (D5)  aised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface)  Field Observations:	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Stunted or S B7) (B8)	ned Leaves (BS, , 2, 4A, and 4i B11) ertebrates (B13 Sulfide Odor (C hizospheres ale if Reduced Iron n Reduction in Stressed Plant lain in Remarks	B) 1) ong Living Roo (C4) Filled Soils (C6) s (D1) (LRR A	Wi Dr Sa ots (C3) Ge Sr 6) FA	Atter-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  ainage Patterns (B10)  y-Season Water Table (C2)  attration Visible on Aerial Imagery (C9)  becomorphic Position (D2)  allow Aquitard (D3)  C-Neutral Test (D5)  aised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve Hydrogen S  Oxidized Ri  Presence of Recent Iron Stunted or S  B7)  (B8)  Depth (incl	ned Leaves (BS, , 2, 4A, and 4i B11) ertebrates (B13 Sulfide Odor (C hizospheres ale if Reduced Iron a Reduction in Stressed Plant lain in Remarks	B) 1) ong Living Roo (C4) Filled Soils (C6) s (D1) (LRR A	Wi Dr Sa ots (C3) Ge Sr 6) FA	Atter-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  ainage Patterns (B10)  y-Season Water Table (C2)  attration Visible on Aerial Imagery (C9)  becomorphic Position (D2)  allow Aquitard (D3)  C-Neutral Test (D5)  aised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (incl.	ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron n Reduction in Stressed Plant lain in Remarks hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh FA Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	
Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, researce)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery ( Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, results)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, results)	Water-Stain  MLRA 1  Salt Crust (I  Aquatic Inve  Hydrogen S  Oxidized Ri  Presence of  Recent Iron  Stunted or S  B7)  Other (Explication)  No  Depth (inclined No  Depth (inclined No)   ned Leaves (BS, 2, 4A, and 4B11) ertebrates (B13 Sulfide Odor (Chizospheres ald f Reduced Iron in Reduction in Stressed Plant lain in Remarks hes): hes):	B)  1)  1)  1)  1)  1)  1)  1)  1)  1)	Wi Dr Sa ots (C3) Ge Sh Fr Fr	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) aC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	