

## **APPENDIX C**

**Wetland Datasheets from 3/29/22 Field Survey**

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fort Briggs 60 City/County: Fort Briggs, Mendocino Sampling Date: 3/29/22  
 Applicant/Owner: \_\_\_\_\_ State: CA Sampling Point: 1  
 Investigator(s): S. McMurtry Section, Township, Range: NW 1/4 Sec 18 T18 N R17 W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'48.78"N Long: 123°48'19.14 W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Urban NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>Recent rains, early spring conditions. Drought prevalent through Ca, but not as extreme in sampling area.</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>1</u> x 1 = <u>1</u> FACW species _____ x 2 = _____ FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>66</u> x 5 = <u>330</u> Column Totals: <u>98</u> (A) <u>454</u> (B) Prevalence Index = B/A = <u>4.63</u>
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> ____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Bromus diandrus</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Raphanus raphanistrum</u>	<u>25</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Athyrum odoratum</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Medicago polymorpha</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Galium aparine</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Plantago lanceolata</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
7. <u>Rumex acetosella</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
8. _____				
<u>98</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: OBL plant present, but very low density. Prevalence test + dominance test does not approach wetland. No other wetland characteristics.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fert Bress 60 City/County: Fert Bress, Mndoc Sampling Date: 3/29/21  
 Applicant/Owner: \_\_\_\_\_ State: \_\_\_\_\_ Sampling Point: 2  
 Investigator(s): S McMurtre Section, Township, Range: NW 1/4 Sec 18 T18 N R12W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'46.37"N Long: 123°48'19.26"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Urban NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks:	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>2</u> x 1 = <u>2</u> FACW species _____ x 2 = _____ FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>82</u> x 5 = <u>410</u> Column Totals: <u>96</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>4.68</u>
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> N Dominance Test is >50% N Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Raphanus raphistrum</u>	<u>50</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Bremus diandrus</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Plantago lanceolata</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Oxalis pes-caprae</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
5. <u>Athysanetum adonatum</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
6. <u>Rumex acetosella</u>	<u>2</u>	<u>N</u>	<u>OBL</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			
Remarks: <u>Hydrophyte present but very low density. High prevalence test for UPL.</u>				



Sampling Point: 2

## HYDROLOGY

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

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fort Briggs 60 City/County: Fort Briggs, Mendocino Sampling Date: 3/29/22  
 Applicant/Owner: \_\_\_\_\_ State: \_\_\_\_\_ Sampling Point: 3  
 Investigator(s): S. McManis Section, Township, Range: NW 1/4 Sec 18 T18 N R17W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'42.00"N Long: 123°46'19.37"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Urban NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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?	Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>	
Remarks:		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>15</u> x 3 = <u>45</u> FACU species _____ x 4 = _____ UPL species <u>25</u> x 5 = <u>125</u> Column Totals: <u>90</u> (A) <u>170</u> (B)  Prevalence Index = B/A = <u>1.89</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is ≤3.0 <sup>1</sup> ____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. _____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Remarks:
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	US Army Corps of Engineers
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Arid West – Version 2.0
= Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Elymus glaucus</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Plantago lanceolata</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Raphanus raphistrum</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Trifolium subterraneum</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
5. <u>Arctostaphylos californica</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
6. <u>Oxalis per-caryae</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Sampling Point: 3

## HYDROLOGY

**Wetland Hydrology Indicators:**

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# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fort Bragg GO City/County: Fort Bragg, Meade Sampling Date: 3/29/22  
 Applicant/Owner: \_\_\_\_\_ State: \_\_\_\_\_ Sampling Point: 4  
 Investigator(s): S. McMurtry Section, Township, Range: NW 1/4 Sec 18 T18N R17W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'45.63"N Long: 123°45'19.48"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Urban NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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?	Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>	
Remarks:		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<b>Herb Stratum (Plot size: _____)</b>				
1. <u>Elymus glaucus</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Plantago lanceolata</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Trifolium subterraneum</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Arctostaphylos californica</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Oxalis pes-caprae</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
6. <u>Anthoxanthum odoratum</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
7. <u>Raphanus repens</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
8. _____	_____	_____	_____	
_____ = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____ Remarks: _____				

**Hydrophytic Vegetation Indicators:**  
☒ Dominance Test is >50%  
☒ Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No ☒

## 4

## HYDROLOGY

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# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fort Bragg 60 City/County: Fort Bragg, Mendo Sampling Date: 3/29/22  
 Applicant/Owner: \_\_\_\_\_ State: CA Sampling Point: 5  
 Investigator(s): S. McMurtry Section, Township, Range: NW 1/4 Sec 18 T15N R17W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'46.55"N Long: 123°48'18.40"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Udigen NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>	
Remarks:		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
1. _____	_____	_____	_____	OBL species _____ x 1 = _____
2. _____	_____	_____	_____	FACW species _____ x 2 = _____
3. _____	_____	_____	_____	FAC species <u>40</u> x 3 = <u>70</u>
4. _____	_____	_____	_____	FACU species _____ x 4 = _____
5. _____	_____	_____	_____	UPL species <u>55</u> x 5 = <u>275</u>
_____ = Total Cover				Column Totals: <u>95</u> (A) <u>345</u> (B)
Herb Stratum (Plot size: _____)	_____	_____	_____	Prevalence Index = B/A = <u>3.63</u>
1. <u>Pentstemon californicus</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Trifolium subterraneum</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Eschscholzia californica</u>	<u>8</u>	<u>N</u>	<u>UPL</u>	
4. <u>Raphanus raphistrum</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>Bromus diandrus</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	_____	_____	_____	
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				Remarks: <u>Dominance test at min threshold for hydrophytes. Site does not show other characteristics of wetland presence</u>
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			



Sampling Point: 5

## HYDROLOGY

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

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Fort Bragg GO City/County: Fort Bragg, Meade Sampling Date: 3/29/22  
 Applicant/Owner: \_\_\_\_\_ State: Ca Sampling Point: 6  
 Investigator(s): S. McMurtry Section, Township, Range: NW 1/4 Sec 18 T18 N R17W  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): \_\_\_\_\_ Lat: 39°25'45.15"N Long: 123°48'18.45"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Urban NWI classification: \_\_\_\_\_

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 ☒ No \_\_\_\_\_  
 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?	Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____ No _____	

Remarks:

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) \_\_\_\_\_ = Total Cover

1. _____			
2. _____			
3. _____			
4. _____			
5. _____			

Herb Stratum (Plot size: \_\_\_\_\_) \_\_\_\_\_ = Total Cover

1. <u>Halimolobos longifolia</u>	<u>45</u>	<u>Y</u>	<u>UPL</u>
2. <u>Panicum virgatum</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>
3. <u>Leontodon saxatilis</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Oxalis pes-caprae</u>	<u>1</u>	<u>N</u>	<u>UPL</u>
5. <u>Anthoxanthum odoratum</u>	<u>1</u>	<u>N</u>	<u>UPL</u>
6. <u>Vinca major</u>	<u>1</u>	<u>N</u>	<u>UPL</u>
7. <u>Raphanus replanifolius</u>	<u>1</u>	<u>N</u>	<u>UPL</u>
8. <u>Elymus glaucus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>

Woody Vine Stratum (Plot size: \_\_\_\_\_) \_\_\_\_\_ = Total Cover

1. _____			
2. _____			

% Bare Ground in Herb Stratum \_\_\_\_\_ % Cover of Biotic Crust \_\_\_\_\_

Remarks:

### Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

### Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>80</u>	x 5 = <u>400</u>
Column Totals: <u>90</u> (A)	<u>440</u> (B)

Prevalence Index = B/A = 4.88

### Hydrophytic Vegetation Indicators:

N Dominance Test is >50%  
N Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes \_\_\_\_\_ No ☒



## SOIL

Sampling Point: 6

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

[illegible]

<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>:

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>___ Histosol (A1)</li> <li>___ Histic Epipedon (A2)</li> <li>___ Black Histic (A3)</li> <li>___ Hydrogen Sulfide (A4)</li> <li>___ Stratified Layers (A5) (<b>LRR C</b>)</li> <li>___ 1 cm Muck (A9) (<b>LRR D</b>)</li> <li>___ Depleted Below Dark Surface (A11)</li> <li>___ Thick Dark Surface (A12)</li> <li>___ Sandy Mucky Mineral (S1)</li> <li>___ Sandy Gleyed Matrix (S4)</li> </ul> | <ul style="list-style-type: none"> <li>___ Sandy Redox (S5)</li> <li>___ Stripped Matrix (S6)</li> <li>___ Loamy Mucky Mineral (F1)</li> <li>___ Loamy Gleyed Matrix (F2)</li> <li>___ Depleted Matrix (F3)</li> <li>___ Redox Dark Surface (F6)</li> <li>___ Depleted Dark Surface (F7)</li> <li>___ Redox Depressions (F8)</li> <li>___ Vernal Pools (F9)</li> </ul> | <p><b>Indicators for Problematic Hydrology</b></p> <ul style="list-style-type: none"> <li>___ 1 cm Muck (A9) (<b>LRR C</b>)</li> <li>___ 2 cm Muck (A10) (<b>LRR B</b>)</li> <li>___ Reduced Vertic (F18)</li> <li>___ Red Parent Material (TF2)</li> <li>___ Other (Explain in Remarks)</li> </ul> <p><sup>3</sup>Indicators of hydrophytic vegetation and<br/>wetland hydrology must be present</p> |
|--|--|---|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches):

Hydric Soil Present? Yes No ☒

Remarks:

Appears to be previously graded. Cobble layer is shallow, but not as prominent in this location as in point 4.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | Primary Indicators (1 or more required)                                |  | Secondary Indicators (2 or more required)                           |
|--|--|---|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )       |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> ) |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )    |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input type="checkbox"/> Drainage Patterns (B10)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)                |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                      |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                      |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                      |
| <b>Field Observations:</b>   |  |   |

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_

Water Table Present? Yes ☐ No ☒ Depth (inches):           

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches):           

Wetland Hydrology Present? Yes No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

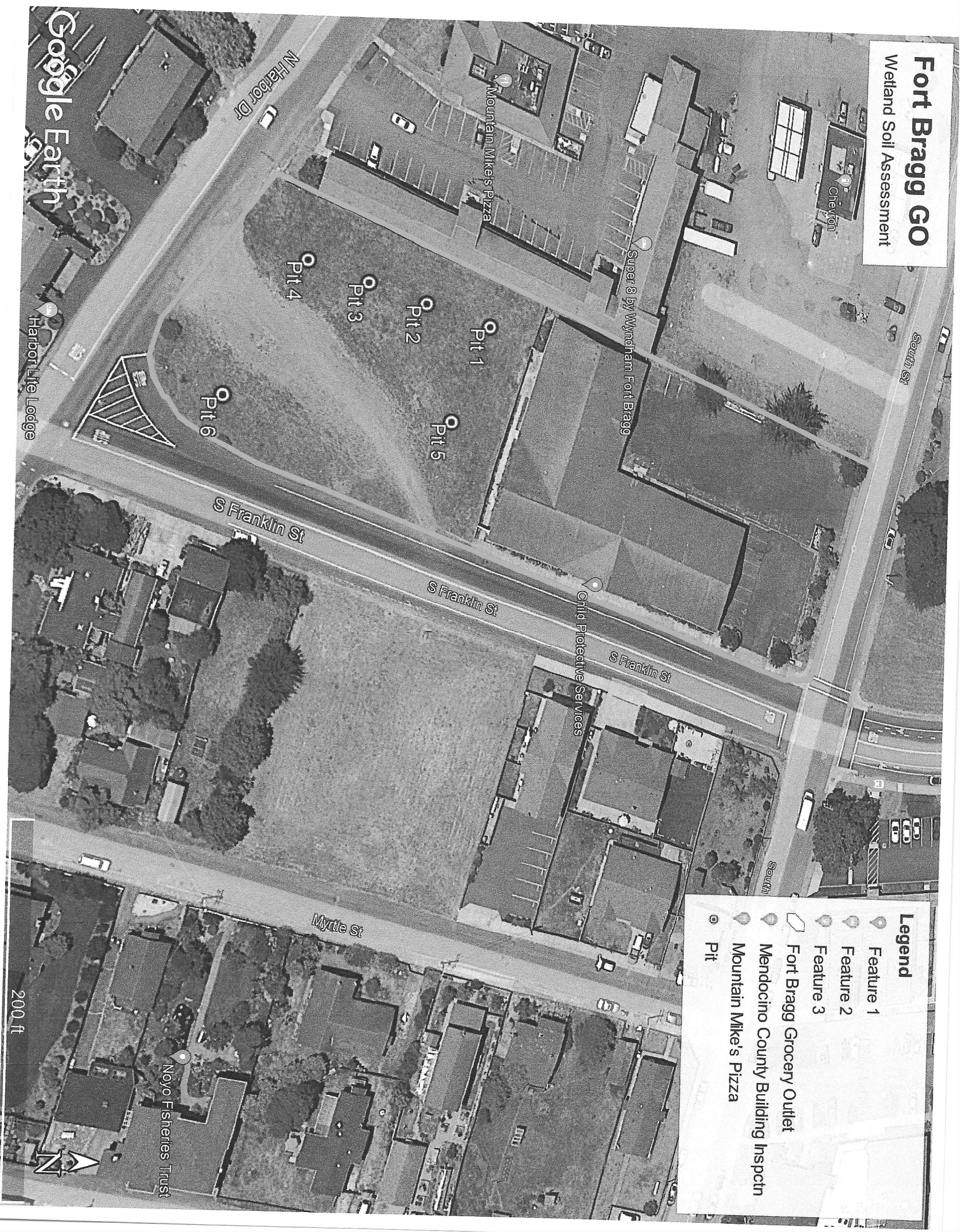
Remarks:

# Fort Bragg GO

Wetland Soil Assessment

**Legend**

- Feature 1
- Feature 2
- Feature 3
- Fort Bragg Grocery Outlet
- Mendocino County Building Inspectn
- Mountain Mike's Pizza
- Pit



Google Earth

Harbor Life Lodge

200 ft

