



FOR DEPARTMENT USE ONLY				
Date Received	Amount Received	Amount Due	Date Complete	Notification No.
	\$	\$		
Assigned to:				

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Name	Erik Sordal			
Business/Agency				
Mailing Address	PO Box 202			
City, State, Zip	Carlotta, CA 95528			
Telephone	707-496-3870	Fax		
Email				

2. CONTACT PERSON *(Complete only if different from applicant)*

Name				
Street Address				
City, State, Zip				
Telephone		Fax		
Email				

3. PROPERTY OWNER *(Complete only if different from applicant)*

Name				
Street Address				
City, State, Zip				
Telephone		Fax		
Email				

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Larabee Restoration 1600		
B. Agreement Term Requested		<input checked="" type="checkbox"/> Regular (5 years or less) <input type="checkbox"/> Long-term (greater than 5 years)		
C. Project Term		D. Seasonal Work Period		E. Number of Work Days
Beginning (year)	Ending (year)	Start Date (month/day)	End Date (month/day)	
2018				



5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, E, or F is checked, complete the specified attachment.

A.	<input checked="" type="checkbox"/> Standard (Most construction projects, excluding the categories listed below)	
B.	<input type="checkbox"/> Gravel/Sand/Rock Extraction (Attachment A)	Mine I.D. Number: _____
C.	<input type="checkbox"/> Timber Harvesting (Attachment B)	THP Number: _____
D.	<input checked="" type="checkbox"/> Water Diversion/Extraction/Impoundment (Attachment C)	SWRCB Number: <u>S027234,-35,-36,-37</u>
E.	<input type="checkbox"/> Routine Maintenance (Attachment D)	
F.	<input checked="" type="checkbox"/> Remediation of Marijuana Cultivation Sites (Attachment E)	
G.	<input type="checkbox"/> Department Grant Programs	Agreement Number: _____
H.	<input type="checkbox"/> Master	
I.	<input type="checkbox"/> Master Timber Operations	

6. FEES

See the current fee schedule to determine the appropriate notification fee. Itemize each project's estimated cost and corresponding fee. **Note: The Department may not process this notification until the correct fee has been received.**

A. Project		B. Project Cost	C. Project Fee
1	Upsizing of Culvert CID #4	< \$5,000	\$577.25
2	Upsizing of Culvert CID #5	< \$5,000	\$577.25
3	Upsizing of Culvert CID #6	< \$5,000	\$577.25
4	Upsizing of Culvert CID #8	< \$5,000	\$577.25
5	Upsizing of Culvert CID #9	< \$5,000	\$577.25
6	Upsizing of Culvert CID #10	< \$5,000	\$577.25
7	Rock Armoring of Outlet of CID #3	< \$5,000	\$577.25
8	Pond Remediation	< \$5,000	\$577.25
9	Registration of 4x existing PODs	\$0	\$2,309
10	Remediation Marijuana Cultivation Site		\$3,087.50
		D. Base Fee (if applicable)	
		E. TOTAL FEE*	\$10,014.50

* Check, money order, and Visa or MasterCard payments are accepted. When payment is made by credit card, CDFW shall assess a separate credit card processing fee of 1.6% to the Total Fee. Credit card payment must be submitted with a completed Credit Card Payment Authorization Form (DFW 1443b (Rev. 8/15)) available online at: <https://www.wildlife.ca.gov/Conservation/LSA/Forms> or at a Department regional office.



7. PRIOR NOTIFICATION AND ORDERS

A. Has a notification previously been submitted to, or a Lake or Streambed Alteration Agreement previously been issued by, the Department for the project described in this notification?

Yes (Provide the information below) No

Applicant	Notification Number	Date

B. Is this notification being submitted in response to a court or administrative order or notice, or a notice of violation (NOV) issued by the Department?

No Yes (Enclose a copy of the order, notice, or NOV. If the applicant was directed to notify the Department verbally rather than in writing, identify the person who directed the applicant to submit this notification and the agency he or she represents, and describe the circumstances relating to the order.)

Continued on additional page(s)

8. PROJECT LOCATION

A. Address or description of project location.
 (Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway)

The site address is 2238 Run Down Acres Lane Bridgeville, California. Driving from Bridgeville east on HWY 36 the site is accessed at the first right immediately after postmile marker: HUM 33.416

Continued on additional page(s)

B. River, stream, or lake affected by the project. unnamed stream

C. What water body is the river, stream, or lake tributary to? Butte Creek

D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts? Yes No Unknown

E. County Humboldt

F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section
Larabee Valley	1N	4E	23	SE

Continued on additional page(s)

K. Meridian (check one) Humboldt Mt. Diablo San Bernardino

L. Assessor's Parcel Number(s)

210-054-008

Continued on additional page(s)



M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)			
Latitude/Longitude	Latitude: See attached inventory		Longitude:
	<input type="checkbox"/> Degrees/Minutes/Seconds	<input checked="" type="checkbox"/> Decimal Degrees	<input type="checkbox"/> Decimal Minutes
UTM	Easting:	Northing:	<input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11
Datum used for Latitude/Longitude or UTM		<input type="checkbox"/> NAD 27	<input checked="" type="checkbox"/> NAD 83 or WGS 84

9. PROJECT CATEGORY

WORK TYPE	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR-MAINTAIN-OPERATE EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bank stabilization – rip-rap/retaining wall/gabion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat dock/pier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat ramp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bridge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel clearing/vegetation management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Culvert	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Debris basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filling of wetland, river, stream, or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Habitat enhancement – revegetation/mitigation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Levee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low water crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road/trail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sediment removal: pond, stream, or marina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
flood control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm drain outfall structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary stream crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utility crossing: horizontal directional drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
jack/bore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
open trench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water diversion without facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water diversion with facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify): PondRestoration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



10. PROJECT DESCRIPTION

- A. Describe the project in detail. Include photographs of the project location and immediate surrounding area.
- Written description of all project activities with detailed step-by-step description of project implementation.
 - Include any structures (e.g., rip-rap, culverts) that will be placed or modified in or near the stream, river, or lake, and any channel clearing.
 - Specify volume, and dimensions of all materials and features (e.g., rip rap fields) that will be used or installed.
 - If water will be diverted or drafted, specify the purpose or use.
 - Enclose diagrams, drawings, plans, and maps that provide all of the following: site specific construction details; dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, stockpile areas, areas of temporary disturbance, and where the equipment/machinery will access the project area.

Project consists of the following components:

1. Upsizing of six culverts, CID #4, CID #5, CID #6, CID #8, CID #9, and CID #10.
2. Installing rock armor at the outlet of one culvert, CID #3
2. Improvements to existing pond ("upper pond" on site map) which include mitigation of areas of existing erosion/sediment delivery, revegetation with native species, and stream channel restoration.

Please see attached restoration plan and appendices for detailed information.

Continued on additional page(s)

B. Specify the equipment and machinery that will be used to complete the project.

Mini-excavator and vibratory rammer. Please refer to Restoration Plan and Appendices.

Continued on additional page(s)

C. Will water be present during the proposed work period (specified in box 4.D) in the stream, river, or lake (specified in box 8.B).

Yes No (Skip to box 11)

D. Will the proposed project require work in the wetted portion of the channel?

Yes (Enclose a plan to divert water around work site)
 No



11. PROJECT IMPACTS

A. Describe impacts to the bed, channel, and bank of the river, stream, or lake, and the associated riparian habitat. Specify the dimensions of the modifications in length (linear feet) and area (square feet or acres) and the type and volume of material (cubic yards) that will be moved, displaced, or otherwise disturbed, if applicable.

Thorough description of project impacts construction details/BMPs are attached. Any fill not reused and compacted onto new/replaced culverts will be spread and compacted on nearby graded flats. Refer to Restoration Plan and Appendices.

Continued on additional page(s)

B. Will the project affect any vegetation? Yes (Complete the tables below) No (Include aerial photo with date supporting this determination)

Vegetation Type	Temporary Impact	Permanent Impact
Riparian vegetation	Linear feet: <u>297</u> Total area: <u>1486</u>	Linear feet: <u>107</u> Total area: <u>740</u>
	Linear feet: _____ Total area: _____	Linear feet: _____ Total area: _____

Tree Species	Number of Trees to be Removed	Trunk Diameter (range)
No trees to be removed		

Continued on additional page(s)

C. Are any special status animal or plant species, or habitat that could support such species, known to be present on or near the project site?

Yes (List each species and/or describe the habitat below) No Unknown

Presumed extant of American peregrine falcon and the Pacific gilia.

Continued on additional page(s)

D. Identify the source(s) of information that supports a "yes" or "no" answer above in Box 11.C.

CNDDDB BIOS

Continued on additional page(s)

E. Has a biological study been completed for the project site?

Yes (Enclose the biological study) No

Note: A biological assessment or study may be required to evaluate potential project impacts on biological resources.



F. Has a hydrological study been completed for the project or project site?

Yes (Enclose the hydrological study) No

Note: A hydrological study or other information on site hydraulics (e.g., flows, channel characteristics, and/or flood recurrence intervals) may be required to evaluate potential project impacts on hydrology.

G. Have fish or wildlife resources or waters of the state been mapped or delineated on the project site?

Yes (Enclose the mapped results) No

Note: Check "yes" if fish and wildlife resources or waters of the state on the project site have been mapped or delineated. "Wildlife" means and includes all wild animals, birds, plants, fish, amphibians, reptiles and related ecological communities, including the habitat upon which the wildlife depends." (Fish & G. Code, § 89.5.) If "yes" is checked, submit the mapping or delineation. If the mapping or delineation is in digital format (e.g., GIS shape files or KMZ), you must submit the information in this format for the Department to deem your notification complete. If "no" is checked, or the resolution of the mapping or delineation is insufficient, the Department may request mapping or delineation (in digital or non-digital format), or higher resolution mapping or delineation for the Department to deem the notification complete.

12. MEASURES TO PROTECT FISH, WILDLIFE, AND PLANT RESOURCES

A. Describe the techniques that will be used to prevent sediment from entering watercourses during and after construction.

Project will take place during dry season when there is no water in the channel (May 1st-Oct 15th). A 48-hour forecast of rain shall trigger a halt to project and the installation of erosion protection on site. Native fill reused will be compacted in 3-4" lifts. Outlet and inlet of replaced culverts will have rip-rap aprons installed. Leftover fill after compacting cover over culverts will be spread and compacted at nearby graded flats. Wattles, silt fences, and/or jute cloth will be used to cover disturbed earth.

Continued on additional page(s)

B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.

Projects will be executed when channel is dry. No trees will be impacted from this project. Culvert replacement: impact to vegetation at the project site will be kept to a minimum as a majority of the trench is in the roadway. Any riparian vegetation in the project footprint will be replanted in the immediate vicinity.

Disturbed area will be seeded with native plant mix and covered in straw to minimize impact to wildlife. Refer to Restoration Plan and Appendices.

Continued on additional page(s)

C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.

Pond Restoration: proposed channel restoration will mitigate sources of sediment/erosion and restore approximately 600 sq ft of vegetated area.

Native seed mix will be used to vegetate disturbed earth so as to minimize the impact on the local plants. Refer to Restoration Plan and Appendices.

Continued on additional page(s)



13. PERMITS

List any local, State, and federal permits required for the project and check the corresponding box(es). Enclose a copy of each permit that has been issued.

- A. Humboldt County CCMLUO Cultivation Permit Applied Issued
- B. _____ Applied Issued
- C. _____ Applied Issued
- D. Unknown whether local, State, or federal permit is needed for the project. (Check each box that applies)

Continued on additional page(s)

14. ENVIRONMENTAL REVIEW

A. Has a draft or final document been prepared for the project pursuant to the California Environmental Quality Act (CEQA) and/or National Environmental Protection Act (NEPA)?

- Yes (Check the box for each CEQA or NEPA document that has been prepared and enclose a copy of each.)
- No (Check the box for each CEQA or NEPA document listed below that will be or is being prepared.)

- Notice of Exemption
- Initial Study
- Negative Declaration
- THP/ NTMP

- Mitigated Negative Declaration
- Environmental Impact Report
- Notice of Determination (Enclose)
- Mitigation, Monitoring, Reporting Plan

NEPA document (type):

B. State Clearinghouse Number (if applicable) _____

C. Has a CEQA lead agency been determined? Yes (Complete boxes D, E, and F) No (Skip to box 14.G)

D. CEQA Lead Agency _____

E. Contact Person _____

F. Telephone Number _____

G. If the project described in this notification is not the "whole project" or action pursuant to CEQA, briefly describe the entire project (Cal. Code Regs., tit. 14, § 15378).

Continued on additional page(s)

H. Has a CEQA filing fee been paid pursuant to Fish and Game Code section 711.4?

- Yes (Enclose proof of payment)
- No (Briefly explain below the reason a CEQA filing fee has not been paid)

Note: If a CEQA filing fee is required, the Lake or Streambed Alteration Agreement may not be finalized until paid.



15. SITE INSPECTION

Check one box only.

In the event the Department determines that a site inspection is necessary, I hereby authorize a Department representative to enter the property where the project described in this notification will take place at any reasonable time, and hereby certify that I am authorized to grant the Department such entry.

I request the Department to first contact (*insert name*) _____ at (*insert telephone number*) _____ to schedule a date and time to enter the property where the project described in this notification will take place. I understand that this may delay the Department's determination as to whether a Lake or Streambed Alteration Agreement is required and/or the Department's issuance of a draft agreement pursuant to this notification.

16. DIGITAL FORMAT

Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)?

Yes (Please enclose the information via digital media with the completed notification form)

No

17. SIGNATURE

I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611.

 Signature of Applicant or Applicant's Authorized Representative

 Date

 Print Name



Applicant Name: Erik Sordal

Project Name: LarabeeRestoration-POD#1 (1/4)

ATTACHMENT C

Water Diversion/Extraction/Impoundment

Complete this attachment *if* the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. Provide the number assigned to the State Water Resources Control Board (SWRCB) application, permit, license, registration, statement of diversion, and use, or other authorization to divert, extract, or impound water, if applicable. If you have a current or expired Lake or Streambed Alteration Agreement (Agreement) for some activity related to your project, provide the Agreement number in your project description below and attach this form, with the information requested on one or more separate pages, to the notification form (DFW 2023).

I. Diversion or Obstruction

- A. Attach plans of any diversion or water storage structure or facility that will be constructed or if no structures or facilities will be constructed, photographs of the project site, including any existing facilities or structures.
- B. Please complete the water use table below. For diversion rate, use gallons per day (gpd) if rate is less than 0.025 cubic foot per second (cfs) (approximately 16,000 gpd).

SEASON OF DIVERSION		PURPOSE OF USE	DIVERSION RATE (cfs or gpm)	AMOUNT USED (acre feet)	
BEGINNING DATE (Mo. & Day)	ENDING DATE (Mo. & Day)			FROM STORAGE	BY DIVERSION
1-Jan	31-Dec	Domestic	10 GPM		0.09
1-Jan	31-Dec	Livestock	10 GPM		0.16
1-Mar	31-Oct	Irrigation	10 GPM		0.22

C. Attach a topographic map that is labeled to show the following:

1. Source of the water
2. Points of diversion
3. Areas of use
4. Storage areas

D. Specify the maximum instantaneous rate of withdrawal (using proposed equipment) in cubic feet per second (cfs) or gallons per minute (gpm).

The maximum instantaneous rate of withdrawal is 10 gpm. It is a gravity fed system.



State of California – Department of Fish and Wildlife
NOTIFICATION OF LAKE OR STREAMBED ALTERATION
WATER DIVERSION/EXTRACTION/IMPONDMENT – ATTACHMENT C
DFW 2023C (REV. 10/01/16) Page 2

E. Check each box below that applies to the project water rights and attach supporting documents.

Riparian. *Attach the most recent Statement of Water Diversion and Use filed with the SWRCB.*

Diversion for immediate use.

Diversion to storage (for less than 30 days).

Appropriative.

Pre-1914. *Attach the most recent Statement of Water Diversion and Use filed with SWRCB.*

Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by SWRCB.*

Small domestic, livestock stockpond, or small irrigation use registration. *Attach a copy of the applicant's registration of water use form filed with, or registration certificate issued by, SWRCB (See Water Code section 1228 et seq.).*

Diversion for immediate use.

Diversion to storage.

Purchased or contracted water. *Attach a copy of the applicant's contract or letter from the applicant's water provider.*

Other. *Describe below or attach separate page.*

F. Approximate lowest level of flow in the river, stream, or lake at the point of diversion during the proposed season of diversion in gpm or cfs:

G. *Other information.* After the Department reviews the project description, and based on the project's location and potential impacts to fish and wildlife resources, the Department will determine if additional information is needed before accepting the notification as complete. Such information could include more site-specific information to ensure that the terms and conditions in the Agreement issued to the applicant will be adequate to protect the fish and wildlife resources the diversion or obstruction could adversely affect. Site-specific information could include biological or hydrological studies or surveys based on the season of diversion, the location of the diversion relative to other diversions in the watershed, the method of diversion, and the quantity of water to be diverted, such as the following:



1. *Water Availability Analysis* to determine if the water can be diverted without causing substantial adverse effects on downstream fish and wildlife resources. Water availability analyses are based on a comparison of flows without any diversions (unimpaired flows) and flows available when all known diversions are “subtracted” (impaired flows).
2. *Instream Flow Study* to determine the minimum bypass flows needed and maximum rates of withdrawal possible to provide adequate depths and velocities to protect habitat for all life stages of aquatic resources. The study plan must be prepared by a qualified fisheries biologist and approved by the Department, will determine the effects of the proposed diversion on flow depth and velocity.
3. *Water Quality Study* to assess the effects of the proposed water diversion or impoundment on water temperature and water quality at and downstream from the point(s) of diversion.

II. Permanent or Temporary Reservoir

Please provide the information below *if* the project includes the construction of a reservoir, whether permanent or temporary, and/or the filling of an existing reservoir by diverting or obstructing the flow of a river, stream, or lake.

A. Proposed use of the stored water:

B. Construction plans for the reservoir and dam. (*Attach plans*)

C. A complete description of the reservoir and dam, including the methods and materials that will be used to construct the reservoir and dam and the following dimensions certified by a licensed professional: the width, length, depth, and total surface area of the reservoir pool; the volume of water in acre-feet that will be stored in the reservoir; and the height and length of the dam.

D. The amount of riparian land that will be inundated (i.e., upstream from the dam): _____

E. Where vehicles will enter and exit the project site during construction and for maintenance purposes after construction. (*Attach map*)

F. The maximum distance of the disturbance that will occur upstream and downstream during construction:

G. The methods employed to ensure that the flow is maintained below the dam at all times when water is being diverted into the reservoir:



H. Specify the time period when the area below the dam becomes dry, if at all.

I. The methods employed to ensure that adult and juvenile fish will be able to pass over or around the dam:

J. If a fish ladder is necessary to enable adult and juvenile fish to pass over or around the dam, provide construction plans and an operation plan for the fish ladder. *(Enclose, if applicable)*

K. The methods employed to monitor and maintain water quality (including temperature) within the reservoir:

III. Temporary Reservoir

Please provide the information below *if* the project includes the construction of a temporary reservoir only within the stream zone.

A. Date of dam installation: _____

B. Date of dam removal: _____

C. Amount of time it will take to construct the dam: _____

D. Amount of time it will take to remove the dam: _____

E. Methods to ensure that the reservoir pool will be drained in a manner that does not strand or otherwise harm fish:



Applicant Name: Erik Sordal

Project Name: LarabeeRestoration-POD#2 (2/4)

ATTACHMENT C

Water Diversion/Extraction/Impoundment

Complete this attachment *if* the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. Provide the number assigned to the State Water Resources Control Board (SWRCB) application, permit, license, registration, statement of diversion, and use, or other authorization to divert, extract, or impound water, if applicable. If you have a current or expired Lake or Streambed Alteration Agreement (Agreement) for some activity related to your project, provide the Agreement number in your project description below and attach this form, with the information requested on one or more separate pages, to the notification form (DFW 2023).

I. Diversion or Obstruction

- A. Attach plans of any diversion or water storage structure or facility that will be constructed or if no structures or facilities will be constructed, photographs of the project site, including any existing facilities or structures.
- B. Please complete the water use table below. For diversion rate, use gallons per day (gpd) if rate is less than 0.025 cubic foot per second (cfs) (approximately 16,000 gpd).

SEASON OF DIVERSION		PURPOSE OF USE	DIVERSION RATE (cfs or gpm)	AMOUNT USED (acre feet)	
BEGINNING DATE (Mo. & Day)	ENDING DATE (Mo. & Day)			FROM STORAGE	BY DIVERSION
1-Jan	31-Dec	Domestic	10 GPM		0.09
1-Jan	31-Dec	Livestock	10 GPM		0.16
1-Mar	31-Oct	Irrigation	10 GPM		0.22

- C. Attach a topographic map that is labeled to show the following:
 1. Source of the water
 2. Points of diversion
 3. Areas of use
 4. Storage areas
- D. Specify the maximum instantaneous rate of withdrawal (using proposed equipment) in cubic feet per second (cfs) or gallons per minute (gpm).

The maximum instantaneous rate of withdrawal is 10 gpm. It is a gravity fed system.



State of California – Department of Fish and Wildlife
NOTIFICATION OF LAKE OR STREAMBED ALTERATION
WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C
DFW 2023C (REV. 10/01/16) Page 2

E. Check each box below that applies to the project water rights and attach supporting documents.

Riparian. *Attach the most recent Statement of Water Diversion and Use filed with the SWRCB.*

Diversion for immediate use.

Diversion to storage (for less than 30 days).

Appropriative.

Pre-1914. *Attach the most recent Statement of Water Diversion and Use filed with SWRCB.*

Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by SWRCB.*

Small domestic, livestock stockpond, or small irrigation use registration. *Attach a copy of the applicant's registration of water use form filed with, or registration certificate issued by, SWRCB (See Water Code section 1228 et seq.).*

Diversion for immediate use.

Diversion to storage.

Purchased or contracted water. *Attach a copy of the applicant's contract or letter from the applicant's water provider.*

Other. *Describe below or attach separate page.*

F. Approximate lowest level of flow in the river, stream, or lake at the point of diversion during the proposed season of diversion in gpm or cfs:

G. *Other information.* After the Department reviews the project description, and based on the project's location and potential impacts to fish and wildlife resources, the Department will determine if additional information is needed before accepting the notification as complete. Such information could include more site-specific information to ensure that the terms and conditions in the Agreement issued to the applicant will be adequate to protect the fish and wildlife resources the diversion or obstruction could adversely affect. Site-specific information could include biological or hydrological studies or surveys based on the season of diversion, the location of the diversion relative to other diversions in the watershed, the method of diversion, and the quantity of water to be diverted, such as the following:



1. *Water Availability Analysis* to determine if the water can be diverted without causing substantial adverse effects on downstream fish and wildlife resources. Water availability analyses are based on a comparison of flows without any diversions (unimpaired flows) and flows available when all known diversions are "subtracted" (impaired flows).
2. *Instream Flow Study* to determine the minimum bypass flows needed and maximum rates of withdrawal possible to provide adequate depths and velocities to protect habitat for all life stages of aquatic resources. The study plan must be prepared by a qualified fisheries biologist and approved by the Department, will determine the effects of the proposed diversion on flow depth and velocity.
3. *Water Quality Study* to assess the effects of the proposed water diversion or impoundment on water temperature and water quality at and downstream from the point(s) of diversion.

II. Permanent or Temporary Reservoir

Please provide the information below *if* the project includes the construction of a reservoir, whether permanent or temporary, and/or the filling of an existing reservoir by diverting or obstructing the flow of a river, stream, or lake.

A. Proposed use of the stored water:

B. Construction plans for the reservoir and dam. (*Attach plans*)

C. A complete description of the reservoir and dam, including the methods and materials that will be used to construct the reservoir and dam and the following dimensions certified by a licensed professional: the width, length, depth, and total surface area of the reservoir pool; the volume of water in acre-feet that will be stored in the reservoir; and the height and length of the dam.

D. The amount of riparian land that will be inundated (i.e., upstream from the dam): _____

E. Where vehicles will enter and exit the project site during construction and for maintenance purposes after construction. (*Attach map*)

F. The maximum distance of the disturbance that will occur upstream and downstream during construction:

G. The methods employed to ensure that the flow is maintained below the dam at all times when water is being diverted into the reservoir:



H. Specify the time period when the area below the dam becomes dry, if at all.

I. The methods employed to ensure that adult and juvenile fish will be able to pass over or around the dam:

J. If a fish ladder is necessary to enable adult and juvenile fish to pass over or around the dam, provide construction plans and an operation plan for the fish ladder. *(Enclose, if applicable)*

K. The methods employed to monitor and maintain water quality (including temperature) within the reservoir:

III. Temporary Reservoir

Please provide the information below *if* the project includes the construction of a temporary reservoir only within the stream zone.

A. Date of dam installation: _____

B. Date of dam removal: _____

C. Amount of time it will take to construct the dam: _____

D. Amount of time it will take to remove the dam: _____

E. Methods to ensure that the reservoir pool will be drained in a manner that does not strand or otherwise harm fish:



Applicant Name: Erik Sordal

Project Name: LarabeeRestoration-POD#3 (3/4)

ATTACHMENT C

Water Diversion/Extraction/Impoundment

Complete this attachment *if* the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. Provide the number assigned to the State Water Resources Control Board (SWRCB) application, permit, license, registration, statement of diversion, and use, or other authorization to divert, extract, or impound water, if applicable. If you have a current or expired Lake or Streambed Alteration Agreement (Agreement) for some activity related to your project, provide the Agreement number in your project description below and attach this form, with the information requested on one or more separate pages, to the notification form (DFW 2023).

I. Diversion or Obstruction

- A. Attach plans of any diversion or water storage structure or facility that will be constructed or if no structures or facilities will be constructed, photographs of the project site, including any existing facilities or structures.
- B. Please complete the water use table below. For diversion rate, use gallons per day (gpd) if rate is less than 0.025 cubic foot per second (cfs) (approximately 16,000 gpd).

SEASON OF DIVERSION		PURPOSE OF USE	DIVERSION RATE (cfs or gpm)	AMOUNT USED (acre feet)	
BEGINNING DATE (Mo. & Day)	ENDING DATE (Mo. & Day)			FROM STORAGE	BY DIVERSION
1-Jan	31-Dec	Domestic	10 GPM		0.09
1-Jan	31-Dec	Livestock	10 GPM		0.16
1-Mar	31-Oct	Irrigation	10 GPM		0.22

- C. Attach a topographic map that is labeled to show the following:
 - 1. Source of the water
 - 2. Points of diversion
 - 3. Areas of use
 - 4. Storage areas
- D. Specify the maximum instantaneous rate of withdrawal (using proposed equipment) in cubic feet per second (cfs) or gallons per minute (gpm).

The maximum instantaneous rate of withdrawal is 10 gpm. It is a gravity fed system.



State of California – Department of Fish and Wildlife
**NOTIFICATION OF LAKE OR STREAMBED ALTERATION
WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C**
DFW 2023C (REV. 10/01/16) Page 2

E. Check each box below that applies to the project water rights and attach supporting documents.

Riparian. *Attach the most recent Statement of Water Diversion and Use filed with the SWRCB.*

Diversion for immediate use.

Diversion to storage (for less than 30 days).

Appropriative.

Pre-1914. *Attach the most recent Statement of Water Diversion and Use filed with SWRCB.*

Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by SWRCB.*

Small domestic, livestock stockpond, or small irrigation use registration. *Attach a copy of the applicant's registration of water use form filed with, or registration certificate issued by, SWRCB (See Water Code section 1228 et seq.).*

Diversion for immediate use.

Diversion to storage.

Purchased or contracted water. *Attach a copy of the applicant's contract or letter from the applicant's water provider.*

Other. *Describe below or attach separate page.*

F. Approximate lowest level of flow in the river, stream, or lake at the point of diversion during the proposed season of diversion in gpm or cfs:

G. *Other information.* After the Department reviews the project description, and based on the project's location and potential impacts to fish and wildlife resources, the Department will determine if additional information is needed before accepting the notification as complete. Such information could include more site-specific information to ensure that the terms and conditions in the Agreement issued to the applicant will be adequate to protect the fish and wildlife resources the diversion or obstruction could adversely affect. Site-specific information could include biological or hydrological studies or surveys based on the season of diversion, the location of the diversion relative to other diversions in the watershed, the method of diversion, and the quantity of water to be diverted, such as the following:



1. *Water Availability Analysis* to determine if the water can be diverted without causing substantial adverse effects on downstream fish and wildlife resources. Water availability analyses are based on a comparison of flows without any diversions (unimpaired flows) and flows available when all known diversions are "subtracted" (impaired flows).
2. *Instream Flow Study* to determine the minimum bypass flows needed and maximum rates of withdrawal possible to provide adequate depths and velocities to protect habitat for all life stages of aquatic resources. The study plan must be prepared by a qualified fisheries biologist and approved by the Department, will determine the effects of the proposed diversion on flow depth and velocity.
3. *Water Quality Study* to assess the effects of the proposed water diversion or impoundment on water temperature and water quality at and downstream from the point(s) of diversion.

II. Permanent or Temporary Reservoir

Please provide the information below *if* the project includes the construction of a reservoir, whether permanent or temporary, and/or the filling of an existing reservoir by diverting or obstructing the flow of a river, stream, or lake.

A. Proposed use of the stored water:

B. Construction plans for the reservoir and dam. (*Attach plans*)

C. A complete description of the reservoir and dam, including the methods and materials that will be used to construct the reservoir and dam and the following dimensions certified by a licensed professional: the width, length, depth, and total surface area of the reservoir pool; the volume of water in acre-feet that will be stored in the reservoir; and the height and length of the dam.

D. The amount of riparian land that will be inundated (i.e., upstream from the dam): _____

E. Where vehicles will enter and exit the project site during construction and for maintenance purposes after construction. (*Attach map*)

F. The maximum distance of the disturbance that will occur upstream and downstream during construction:

G. The methods employed to ensure that the flow is maintained below the dam at all times when water is being diverted into the reservoir:



H. Specify the time period when the area below the dam becomes dry, if at all.

I. The methods employed to ensure that adult and juvenile fish will be able to pass over or around the dam:

J. If a fish ladder is necessary to enable adult and juvenile fish to pass over or around the dam, provide construction plans and an operation plan for the fish ladder. *(Enclose, if applicable)*

K. The methods employed to monitor and maintain water quality (including temperature) within the reservoir:

III. Temporary Reservoir

Please provide the information below *if* the project includes the construction of a temporary reservoir only within the stream zone.

A. Date of dam installation: _____

B. Date of dam removal: _____

C. Amount of time it will take to construct the dam: _____

D. Amount of time it will take to remove the dam: _____

E. Methods to ensure that the reservoir pool will be drained in a manner that does not strand or otherwise harm fish:



Applicant Name: Erik Sordal

Project Name: LarabeeRestoration-POD#4 (4/4)

ATTACHMENT C

Water Diversion/Extraction/Impoundment

Complete this attachment *if* the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. Provide the number assigned to the State Water Resources Control Board (SWRCB) application, permit, license, registration, statement of diversion, and use, or other authorization to divert, extract, or impound water, if applicable. If you have a current or expired Lake or Streambed Alteration Agreement (Agreement) for some activity related to your project, provide the Agreement number in your project description below and attach this form, with the information requested on one or more separate pages, to the notification form (DFW 2023).

I. Diversion or Obstruction

- A. Attach plans of any diversion or water storage structure or facility that will be constructed or if no structures or facilities will be constructed, photographs of the project site, including any existing facilities or structures.
- B. Please complete the water use table below. For diversion rate, use gallons per day (gpd) if rate is less than 0.025 cubic foot per second (cfs) (approximately 16,000 gpd).

SEASON OF DIVERSION		PURPOSE OF USE	DIVERSION RATE (cfs or gpm)	AMOUNT USED (acre feet)	
BEGINNING DATE (Mo. & Day)	ENDING DATE (Mo. & Day)			FROM STORAGE	BY DIVERSION
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1-Jan	31-Dec	Livestock	10 GPM		0.16
1-Mar	31-Oct	Irrigation	10 GPM		0.22

- C. Attach a topographic map that is labeled to show the following:
 1. Source of the water
 2. Points of diversion
 3. Areas of use
 4. Storage areas

- D. Specify the maximum instantaneous rate of withdrawal (using proposed equipment) in cubic feet per second (cfs) or gallons per minute (gpm).

The maximum instantaneous rate of withdrawal is 10 gpm. It is a gravity fed system.



State of California – Department of Fish and Wildlife
NOTIFICATION OF LAKE OR STREAMBED ALTERATION
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E. Check each box below that applies to the project water rights and attach supporting documents.

Riparian. *Attach the most recent Statement of Water Diversion and Use filed with the SWRCB.*

Diversion for immediate use.

Diversion to storage (for less than 30 days).

Appropriative.

Pre-1914. *Attach the most recent Statement of Water Diversion and Use filed with SWRCB.*

Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by SWRCB.*

Small domestic, livestock stockpond, or small irrigation use registration. *Attach a copy of the applicant's registration of water use form filed with, or registration certificate issued by, SWRCB (See Water Code section 1228 et seq.).*

Diversion for immediate use.

Diversion to storage.

Purchased or contracted water. *Attach a copy of the applicant's contract or letter from the applicant's water provider.*

Other. *Describe below or attach separate page.*

F. Approximate lowest level of flow in the river, stream, or lake at the point of diversion during the proposed season of diversion in gpm or cfs:

G. *Other information.* After the Department reviews the project description, and based on the project's location and potential impacts to fish and wildlife resources, the Department will determine if additional information is needed before accepting the notification as complete. Such information could include more site-specific information to ensure that the terms and conditions in the Agreement issued to the applicant will be adequate to protect the fish and wildlife resources the diversion or obstruction could adversely affect. Site-specific information could include biological or hydrological studies or surveys based on the season of diversion, the location of the diversion relative to other diversions in the watershed, the method of diversion, and the quantity of water to be diverted, such as the following:



State of California – Department of Fish and Wildlife
NOTIFICATION OF LAKE OR STREAMBED ALTERATION
WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C
DFW 2023C (REV. 10/01/16) Page 3

1. *Water Availability Analysis* to determine if the water can be diverted without causing substantial adverse effects on downstream fish and wildlife resources. Water availability analyses are based on a comparison of flows without any diversions (unimpaired flows) and flows available when all known diversions are "subtracted" (impaired flows).
2. *Instream Flow Study* to determine the minimum bypass flows needed and maximum rates of withdrawal possible to provide adequate depths and velocities to protect habitat for all life stages of aquatic resources. The study plan must be prepared by a qualified fisheries biologist and approved by the Department, will determine the effects of the proposed diversion on flow depth and velocity.
3. *Water Quality Study* to assess the effects of the proposed water diversion or impoundment on water temperature and water quality at and downstream from the point(s) of diversion.

II. Permanent or Temporary Reservoir

Please provide the information below *if* the project includes the construction of a reservoir, whether permanent or temporary, and/or the filling of an existing reservoir by diverting or obstructing the flow of a river, stream, or lake.

A. Proposed use of the stored water:

B. Construction plans for the reservoir and dam. (*Attach plans*)

C. A complete description of the reservoir and dam, including the methods and materials that will be used to construct the reservoir and dam and the following dimensions certified by a licensed professional: the width, length, depth, and total surface area of the reservoir pool; the volume of water in acre-feet that will be stored in the reservoir; and the height and length of the dam.

D. The amount of riparian land that will be inundated (i.e., upstream from the dam): _____

E. Where vehicles will enter and exit the project site during construction and for maintenance purposes after construction. (*Attach map*)

F. The maximum distance of the disturbance that will occur upstream and downstream during construction:

G. The methods employed to ensure that the flow is maintained below the dam at all times when water is being diverted into the reservoir:



H. Specify the time period when the area below the dam becomes dry, if at all.

I. The methods employed to ensure that adult and juvenile fish will be able to pass over or around the dam:

J. If a fish ladder is necessary to enable adult and juvenile fish to pass over or around the dam, provide construction plans and an operation plan for the fish ladder. *(Enclose, if applicable)*

K. The methods employed to monitor and maintain water quality (including temperature) within the reservoir:

III. Temporary Reservoir

Please provide the information below *if* the project includes the construction of a temporary reservoir only within the stream zone.

A. Date of dam installation: _____

B. Date of dam removal: _____

C. Amount of time it will take to construct the dam: _____

D. Amount of time it will take to remove the dam: _____

E. Methods to ensure that the reservoir pool will be drained in a manner that does not strand or otherwise harm fish:



Applicant Name: Erik Sordal

Project Name: Larabee Restoration 1600

ATTACHMENT E

Cannabis Cultivation

Complete this attachment if the project includes cannabis cultivation and you are seeking authorization under an individual Lake or Streambed Alteration Agreement. "Cultivation" means any activity involving the planting, growing, harvesting, drying, curing, grading, or trimming of cannabis (Business and Professions Code, section 26000 et seq.). *Please note that if you are seeking authorization under the General Agreement for Cannabis Cultivation you must notify online at the California Department of Fish and Wildlife (Department) website: <https://www.wildlife.ca.gov/Conservation/LSA>.*

Complete Sections I – IV and VI for all Agreement types.

Complete Sections V if any aspect of the project includes remediation. "Remediation" means to perform work that reduces or eliminates the direct and indirect adverse impacts on fish and wildlife resources associated with past or existing cannabis activities subject to Fish and Game Code 1602.

Submit Attachment E with the Notification form (DFW 2023) and applicable fees.

I. CULTIVATION OPERATION – Complete this section for all LSA Agreement types.

- Proposed new cannabis cultivation operation
- Existing cannabis cultivation operation

Type of CDFA Annual License you will apply for :

Specialty Cottage:

- Specialty Cottage Outdoor
- Specialty Cottage Indoor
- Specialty Cottage Mixed-Light Tier 1 and 2

Specialty:

- Specialty Outdoor
- Specialty Indoor
- Specialty Mixed-Light Tier 1 and 2

Small:

- Specialty Outdoor
- Specialty Indoor
- Specialty Mixed-Light Tier 1 and 2



Medium:

Specialty Outdoor

Specialty Indoor

Specialty Mixed-Light Tier 1 and 2

Nursery

Processor

CDFA Annual License # (if applicable): _____

CDFA Temporary License # (if applicable): _____

II. LOCAL ORDINANCE OR PERMIT – Complete this section for all Agreement types.

Does the town, city, or county where cultivation will occur have a rule, ordinance, or other regulation or law that governs the cultivation of cannabis?

Yes: Town/City Yes: County No

Are you required to have a written authorization (permit) from the city/town and/or county to cultivate cannabis within the city/town and/or county?

Yes. *Enclose a copy permit(s) and/or completed application(s).* No

III. WATER SUPPLY– Complete this section for all Agreement types.

How is water supplied to the cannabis cultivation site(s)?

Diversion, Obstruction, Extraction, or Impoundment of a River, Stream, or Lake

Yes No
If yes is checked, you must also complete Attachment C.

Geographic Coordinates of each diversion, obstruction, extraction, or impoundment:
 Latitude _____ Longitude _____

Spring(s)

Yes No
If yes is checked, you must also complete Attachment C.

Number of Springs⁴ _____

Geographic Coordinates of each spring:
 Latitude POD #1: 40.4434, -123.7019 POD #2: 40.4473, -123.6920 Longitude POD #3: 40.4436, -123.7005, POD #4: 40.4438, -123.7007



Private Well(s)

Yes No

If yes is checked, you **must** attach a map that identifies the location of the well(s).

Geographic Coordinates of each well:

Latitude _____ Longitude _____

You **must** provide the well's geographic location coordinates and a copy of the well log/well completion report filed with the Department of Water Resources pursuant to Section 13751 of Water Code. If no well log is available, provide evidence from the Department of Water Resources indicating that the Department of Water Resources does not have a record of the well log.

Public Water System

Yes No

Name of public water system: _____

If Yes box is checked, you must enclose documentation from provider confirming authorization of service for water needed for project.

Water Hauling

Yes No

Name of water hauler contact information, and a copy of the water hauler license issued by the California Department of Public Health:

Name of water hauler: _____

Water hauler license information: _____

Other

Specify: _____

Continued on additional page(s)

IV. CALIFORNIA LICENSED PROFESSIONAL OR QUALIFIED ENVIRONMENTAL CONSULTANT/BIOLOGIST – Complete this section for all Agreement types.

Have you consulted with or retained a California licensed professional or a qualified environmental consultant/biologist to address your cannabis cultivation?		
<input type="checkbox"/> Yes (Provide the information below) <input type="checkbox"/> No		
Name of Company	Name of Professional or Consultant	Business Telephone



V. REMEDIATION – Complete this section if *any* aspect of the project includes remediation.

A. Order or Notice. Are you required to perform the work described in the notification pursuant to a court or administrative agency notice or order?	
<input type="checkbox"/> Yes (<i>Enclose a copy of the order or notice</i>)	<input checked="" type="checkbox"/> No
Did you receive a notice of violation (NOV) from the Department that relates to the work described in the notification?	
<input type="checkbox"/> Yes (<i>Enclose a copy of the NOV</i>)	<input checked="" type="checkbox"/> No
B. Remediation Area. Determine the total area that requires remediation.	
Remediation area in total:	<u>708</u> square feet
C. Remediation Fee. Submit the applicable fee based on the total size of the remediation area. The remediation fee is in addition to the notification fee and must be submitted by separate check or other method of payment (Cal. Code Regs., tit. 14, § 699.5, subd. (i)(3)(A)).	
<input checked="" type="checkbox"/> \$3,087.50 if the total remediation area is less than or equal to 1,000 square feet	
<input type="checkbox"/> \$5,145.75 if the total remediation area is greater than 1,000 square feet	
D. Remediation Plan. Has a plan to remediate the area been prepared?	
<input checked="" type="checkbox"/> Yes (<i>Enclose the plan</i>)	<input type="checkbox"/> No
<i>Note: If "yes" is checked, submit the remediation plan with the Notification. If "no" is checked, your Notification may be incomplete and the Department may request you have a California licensed professional or qualified environmental consultant amend the plan or submit a new plan for your Notification.</i>	

VI. NOTIFICATION FEES – Entity must pay Department fee(s) at time of Notification.

The current fee schedule is available at http://www.wildlife.ca.gov/Conservation/LSA/Forms and specified in Section 699.5, subdivision (b) of the California Code of Regulations, title 14.	
Remediation fees, if applicable, are specified in Section 699.5, subdivision (i) of the California Code of Regulations, title 14. The remediation fee is in addition to the notification fee and must be submitted by separate check or other method of payment.	
<input checked="" type="checkbox"/> Notification Fee	<input checked="" type="checkbox"/> Remediation Fee (if applicable)

List of Attachments

Appendix A: Maps

- Directions to site
- Vicinity Map - topo
- Vicinity Map - aerial
- Project Map - topo
- Project Map - aerial

Appendix B: Map Point Overview

- Table summarizing map points and recommendations to be implemented.

Appendix C: 1600 Project Plan

- Project and restoration details including
 - Culvert Inventory and Analysis
 - Points of Diversion
 - Upper Pond Restoration Plan

Appendix D: Site and Culvert Photos

Appendix E: Culvert Construction Details

- Inventory and Analysis Results
- Culvert Construction BMPs and Guidance
- Nomographs and Analysis Spreadsheets

Appendix F: Upper Pond Restoration Details

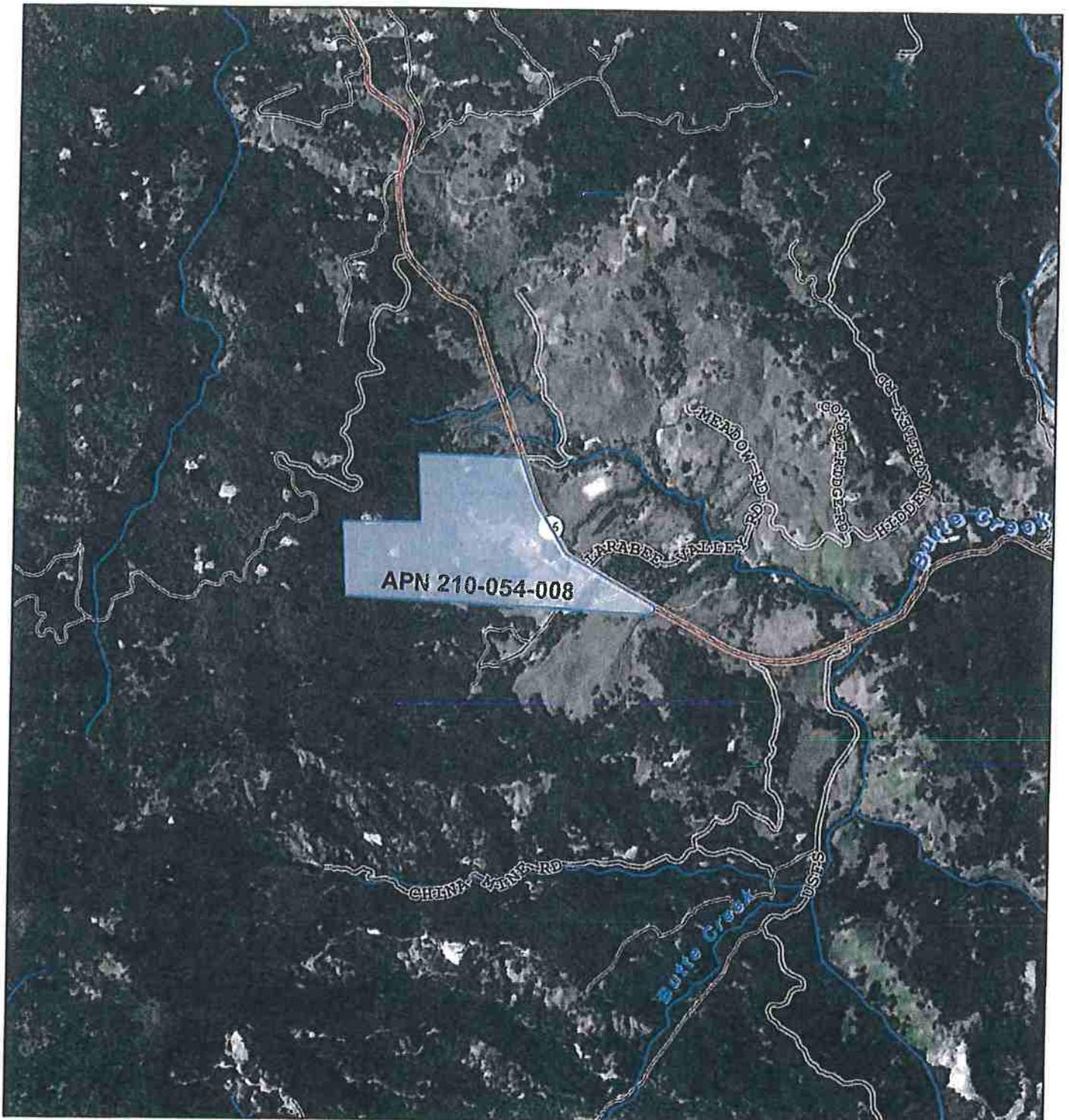
- Details on stream channel restoration project

Appendix G: Upper Pond Site Photos

Appendix H: Existing Pond Stability Technical Memorandum

- Documentation and evaluation of existing offstream rainwater catchment pond (Lower Pond).

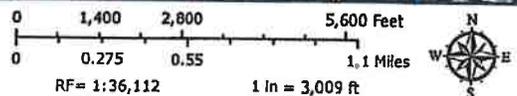
Appendix I: Project Area BIOS Map



ArcGIS Web Map

Humboldt County Planning and Building Department

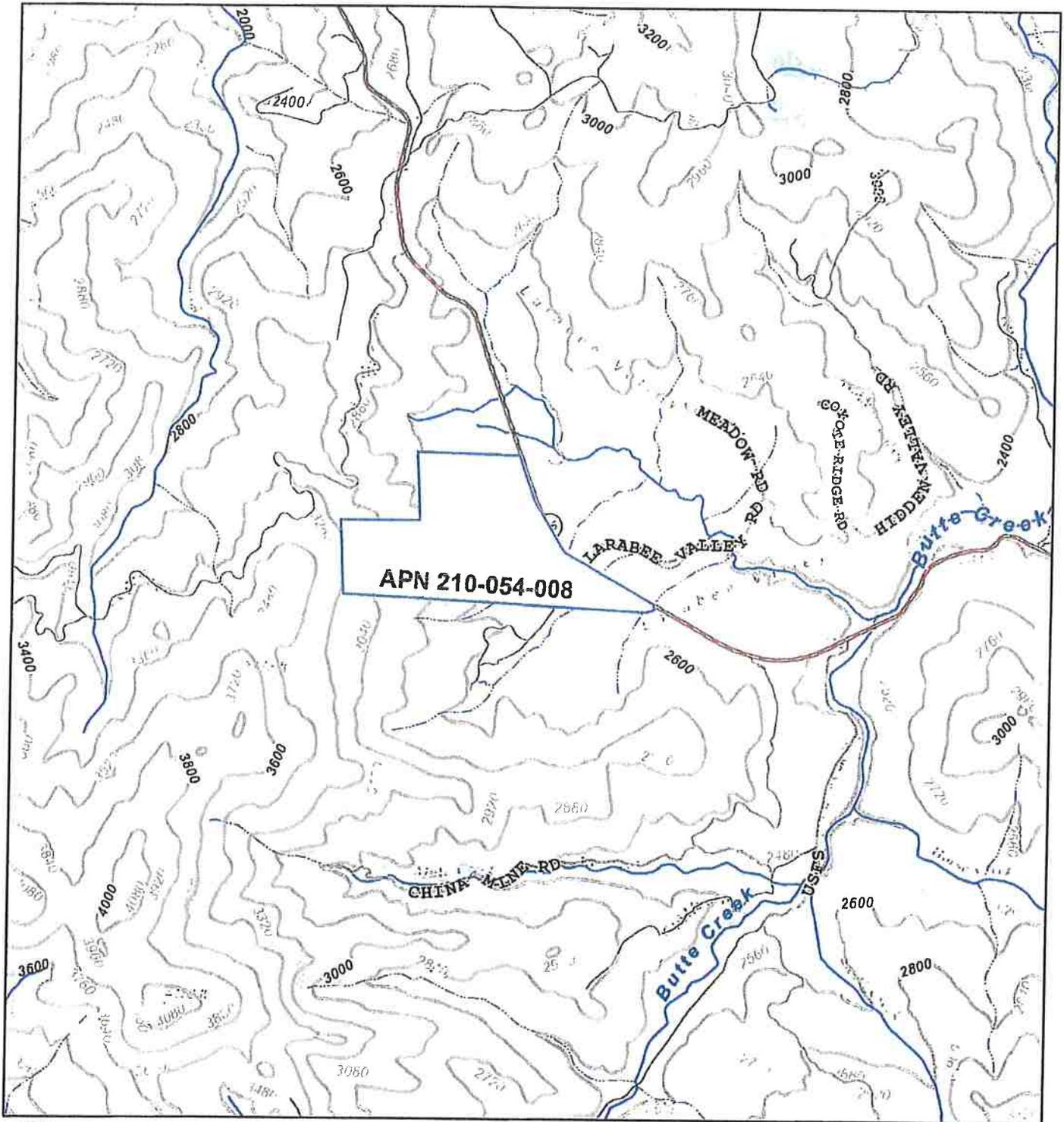
- | | | |
|---------------------|-------------------------|----------------------|
| Highways and Roads | Private or Unclassified | Intermittent |
| Principal Arterials | Major River or Stream | Subsurface |
| Minor Arterials | Blue Line Streams | City Boundary |
| Major Collectors | Perennial 1-3 | City Boundary (750K) |
| Minor Collectors | Perennial >4 | Counties |
| Local Roads | | |



Printed: August 24, 2017 Web AppBuilder 2.0 for ArcGIS

Map Disclaimer:
While every effort has been made to assure the accuracy of this information, it should be understood that it does not have the force & effect of law, rule, or regulation. Should any difference or error occur, the law will take precedence.

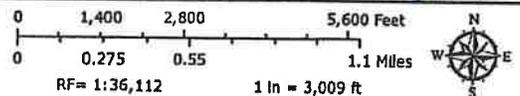
Source: NRCS, Humboldt County GIS, Healthy Rural Roads, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



ArcGIS Web Map

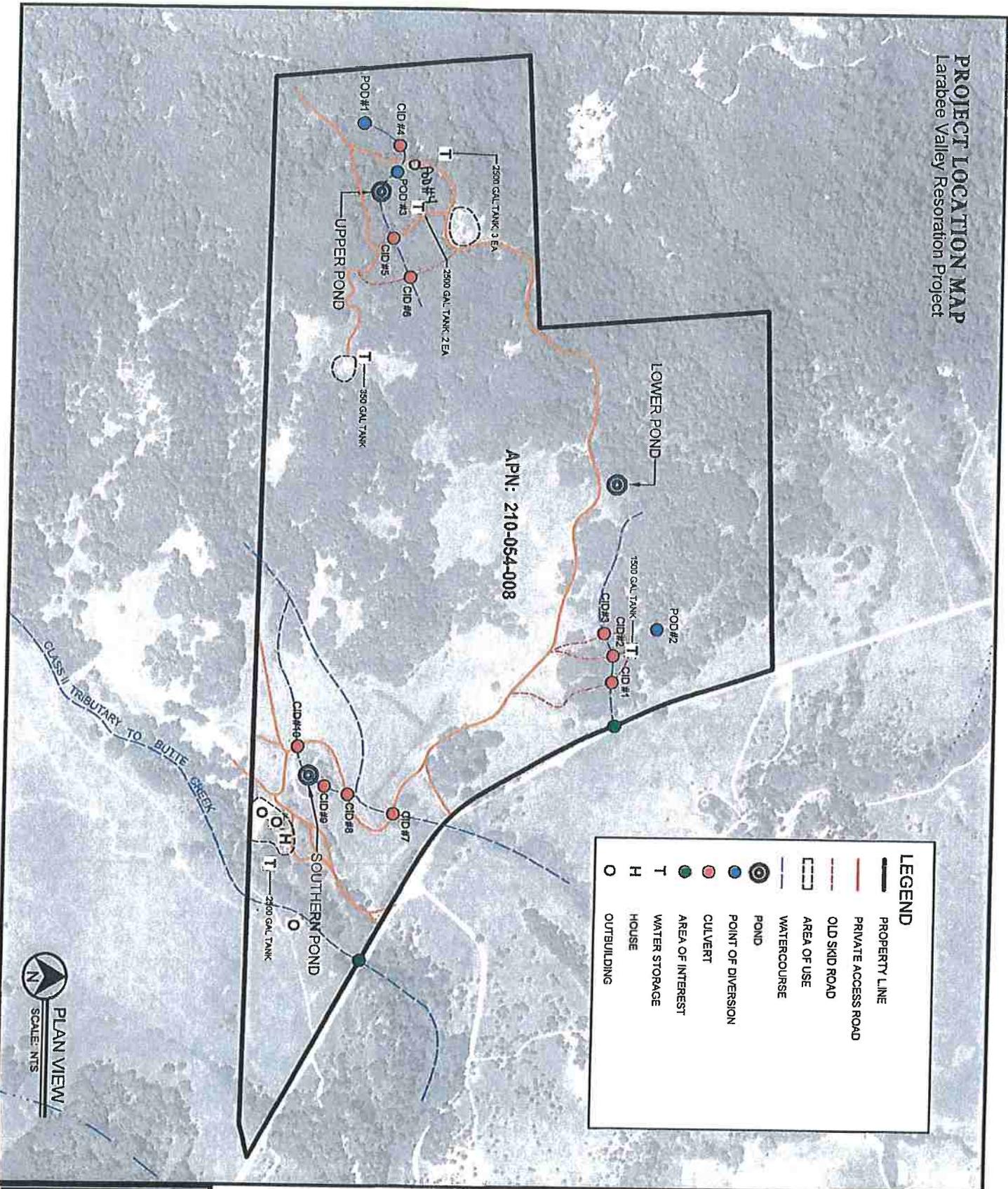
Humboldt County Planning and Building Department

- | | | | |
|---------------------|---------------------------|---------------------------|------------------|
| Highways and Roads | — Private or Unclassified | — Subsurface | — Major Interval |
| Principal Arterials | — Major River or Stream | — City Boundary | |
| Minor Arterials | Blue Line Streams | City Boundary (750K) | |
| Major Collectors | — Perennial 1-3 | Counlies | |
| Minor Collectors | — Perennial >4 | Topographic Contours 40ft | |
| Local Roads | — Intermittent | Minor Interval | |



Printed: August 24, 2017 Web AppBuilder 2.0 for ArcGIS
 Map Disclaimer:
 While every effort has been made to assure the accuracy of this information, it should be understood that it does not have the force & effect of law, rule, or regulation. Should any difference or error occur, the law will take precedence.
 Source: Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, NRCIS, Humboldt County GIS, Healthy Rural Roads, FRAP, FEMA, USGS

PROJECT LOCATION MAP
Larabee Valley Restoration Project



LEGEND

	PROPERTY LINE
	PRIVATE ACCESS ROAD
	OLD SMD ROAD
	AREA OF USE
	WATERCOURSE
	POND
	POINT OF DIVERSION
	CULVERT
	AREA OF INTEREST
	WATER STORAGE
	HOUSE
	OUTBUILDING

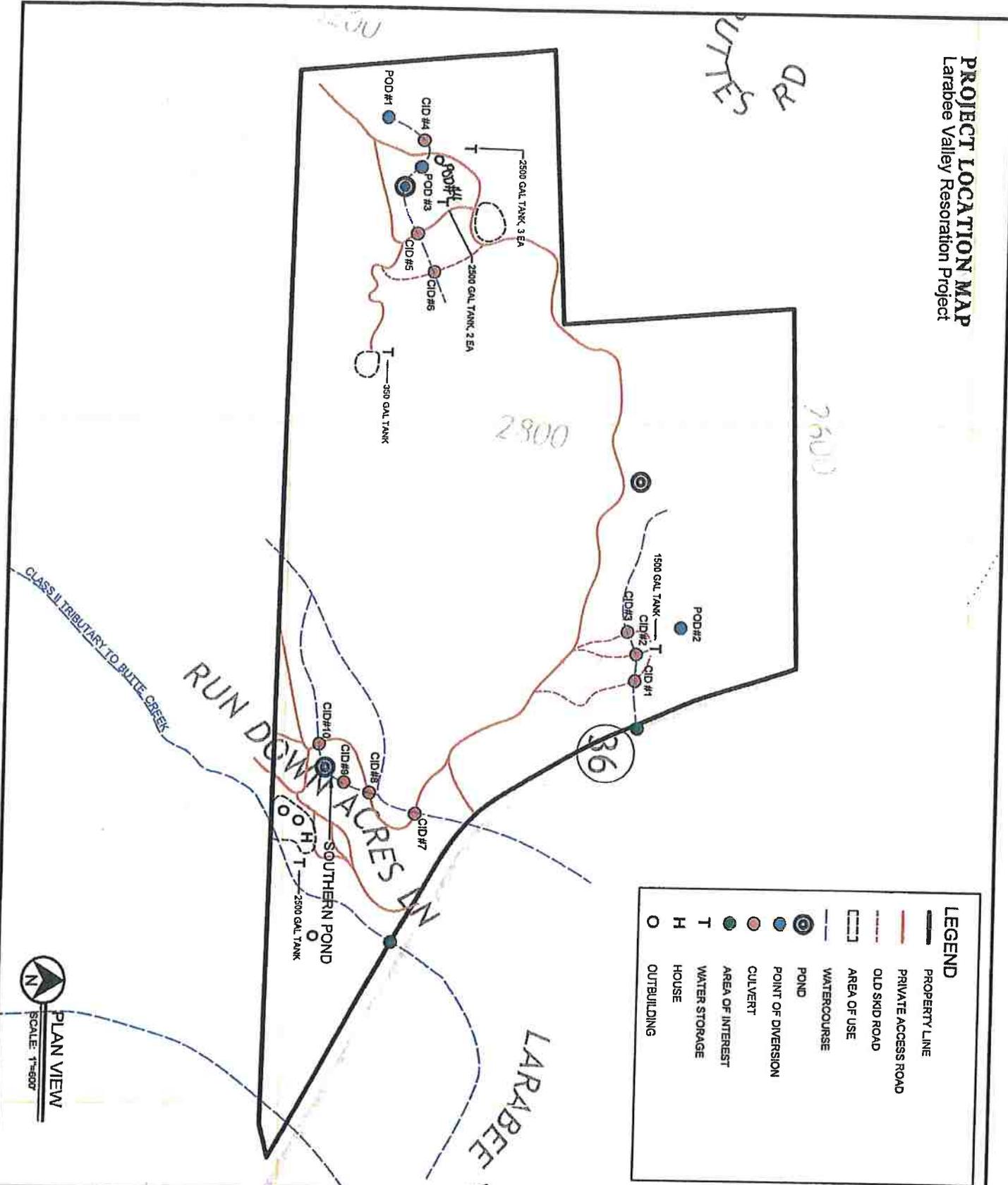
PLAN VIEW
SCALE: NTS

LARABEE VALLEY RESTORATION PROJECT
Project Location Map

OWNER: Erik Sordal
OWNER MAILING ADDRESS: P.O. Box 202, Carlotta, CA 95528
PROJECT APN: 210-054-008

MOTHER EARTH ENGINEERING
920 Samoa Boulevard, Suite 210
Arcata, CA 95521 707-833-8321

PROJECT LOCATION MAP
 Larabee Valley Restoration Project



LEGEND

	PROPERTY LINE
	PRIVATE ACCESS ROAD
	OLD SKID ROAD
	AREA OF USE
	WATERCOURSE
	POND
	POINT OF DIVERSION
	CULVERT
	AREA OF INTEREST
	WATER STORAGE
	HOUSE
	OUTBUILDING

LARABEE VALLEY RESTORATION PROJECT

OWNER: Erik Sordal
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 PROJECT APN: 210-054-008

MOTHER EARTH ENGINEERING

920 Samoa Boulevard, Suite 210
 Arcata, CA 95521 707-833-8321

Project Location Map



Appendix B: MAP POINT OVERVIEW AND SUMMARY OF RECOMMENDATIONS

MAP ID	Comments	Recommendation/Notes	Action besides monitoring and maintenance required
CID #1	The 1' diameter culvert can convey the 100-year flood discharge. Light corrosion at inlet and outlet.	Periodic monitoring and maintenance.	
CID #2	The 1' diameter culvert can convey the 100-year flood discharge. Light corrosion at inlet.	Periodic monitoring and maintenance.	
CID #3	The 1.5' diameter culvert can convey the 100-year flood discharge. There is some scouring at outlet.	Rock armor outlet to minimize scouring. Periodic monitoring and maintenance.	X
CID #4	The 1.5' diameter culvert cannot convey the 100-year flood discharge. Light rust at inlet and outlet. Significant scouring at outlet. Culvert screen is clogged with organic debris.	Culvert diameter is insufficient. Replace with 2' diameter culvert according to Culvert BMPs included in Appendix E. Debris screen should be inspected and maintained before and after storm events.	X
CID #5	Existing culvert inlet is clogged with sediment and vegetation and is undersized for conveying 100-year discharge.	Culvert diameter is insufficient. Replace with 2.5' diameter culvert according to Culvert BMPs included in Appendix E.	X
CID #6	Existing culvert is too small to convey 100-year flood discharge. Existing culvert is exposed at surface of roadway and damaged.	Culvert diameter is insufficient. Replace with 2.5' diameter culvert according to Culvert BMPs included in Appendix E.	X
CID #7	Existing 3' culvert is in good condition and is adequate to convey 100-year flood discharge. Existing 2' culvert is not adequate to convey 100-year flood discharge. Some corrosion and scouring.	Periodic monitoring and maintenance.	
CID #8	Existing 2.5' culvert is not adequate to convey 100-year flood discharge. Outlet is very corroded and there is substantial corrosion at outlet.	Culvert diameter is insufficient. Replace with 4' diameter culvert according to Culvert BMPs included in Appendix E.	X
CID #9		Culvert diameter is insufficient. Replace with 4' diameter culvert according to Culvert BMPs included in Appendix E.	X

Appendix B: MAP POINT OVERVIEW AND SUMMARY OF RECOMMENDATIONS

MAP ID	Comments	Recommendation/Notes	Action besides monitoring and maintenance required
CID #10	Existing 2' culvert is not adequate to convey 100-year flood discharge.	Culvert diameter is insufficient. Replace with 4' diameter culvert according to Culvert BMPs included in Appendix E.	X
Area of Interest ID			
AOI #1	Inlet to culvert that crosses under HWY 36. Showing severe scouring.	Rock armor the inlet.	X
Ponds			
Upper	Location: 40.443194, -123.699980	Recommend restoration of Class III stream channel. Mitigate scoured and eroded areas. Existing Rainwater Pond is hydrologically disconnected. Recommend overflow spillway improvements and additional revegetation. See Existing Pond Stability Technical Memorandum.	x
Lower	Location: 40.446365, -123.694774		
PODs			
POD #1	Location: 40.443336, -123.7019	Historically established spring diversion, established circa late 19th or early 20th century.	
POD #2	Location: 40.44726, -123.692	Historically established spring diversion, established circa late 19th or early 20th century.	
POD #3	Location: 40.44726, -123.692	Historically established spring diversion, established circa late 19th or early 20th century.	
POD #4	Location: 40.44375, -123.7007	Historically established spring diversion, established circa late 19th or early 20th century.	