ATTACHMENT 1d

Eagle Creek Gaze Full Resubmittal

APPLICATION PACKET CHECKLIST

Please check below to ensure you have a complete application. Once complete, email the following documents, in pdf format with the text "Application for Remediation Grant Program Funding" in the subject line to mrichardson@co.humboldt.ca.us.

- X Signed Application Submission Form
- X Project Description – Summary of the Project, up to 2 pages.
- X Plot Plan
- X Plot Plan Checklist – Attached
- X Cross sections of proposed work including topographic elevations
- X Scope of Work – Detailed Description of Work
- X Schedule for Completion – Identify Milestones
- X Erosion Control Plan and Monitoring Plan
- X Budget – Be as specific as possible – sample attached
- X Project Maps and Figures
- ☐Letter(s) of Support (optional)

APPLICATION FORM - Commercial Cannabis Land Use Ordinance Mitigation and Remediation Fund Program

Project Title: Eagle Creek Ranch Road Improvements Date of Application: 10/31/2022

Applicant Name: EcoMeds, LLC Project APN: 223-111-004

Contact Person Name and Title: Robert May

Contact Phone: (415) 710-5000 Contact Email: robert@humboldtsky.com

Contact Address: 1001 Bridgeway #474 Sausalito, CA 94965

Amount Requested: $24,486 Total Budget: $29,052

Project Timeline: Start Date: 04/01/2023 End Date: 08/01/2023

Signature of Applicant: 

Project: Eagle Creek Ranch Road Improvements

Applicant: EcoMeds, LLC

Contact: Robert May

APN: APN: 223-111-004

Grant Funding Requested: $24,486.00

Project Status: Permitted**,** Shovel-ready

Project Description

The project is located in Humboldt County, on parcel APN 223-111-004, at 230 Homestead Road, Garberville, California. The property is located in the Eel River watershed, and contains an unnamed tributary to Dean Creek, which is a tributary to the South Fork of the Eel River.

The project proposes rock armoring of two stream crossings and the removal of a water storage bladder at another crossing as required by the applicant's LSA agreement with Fish & Wildlife.

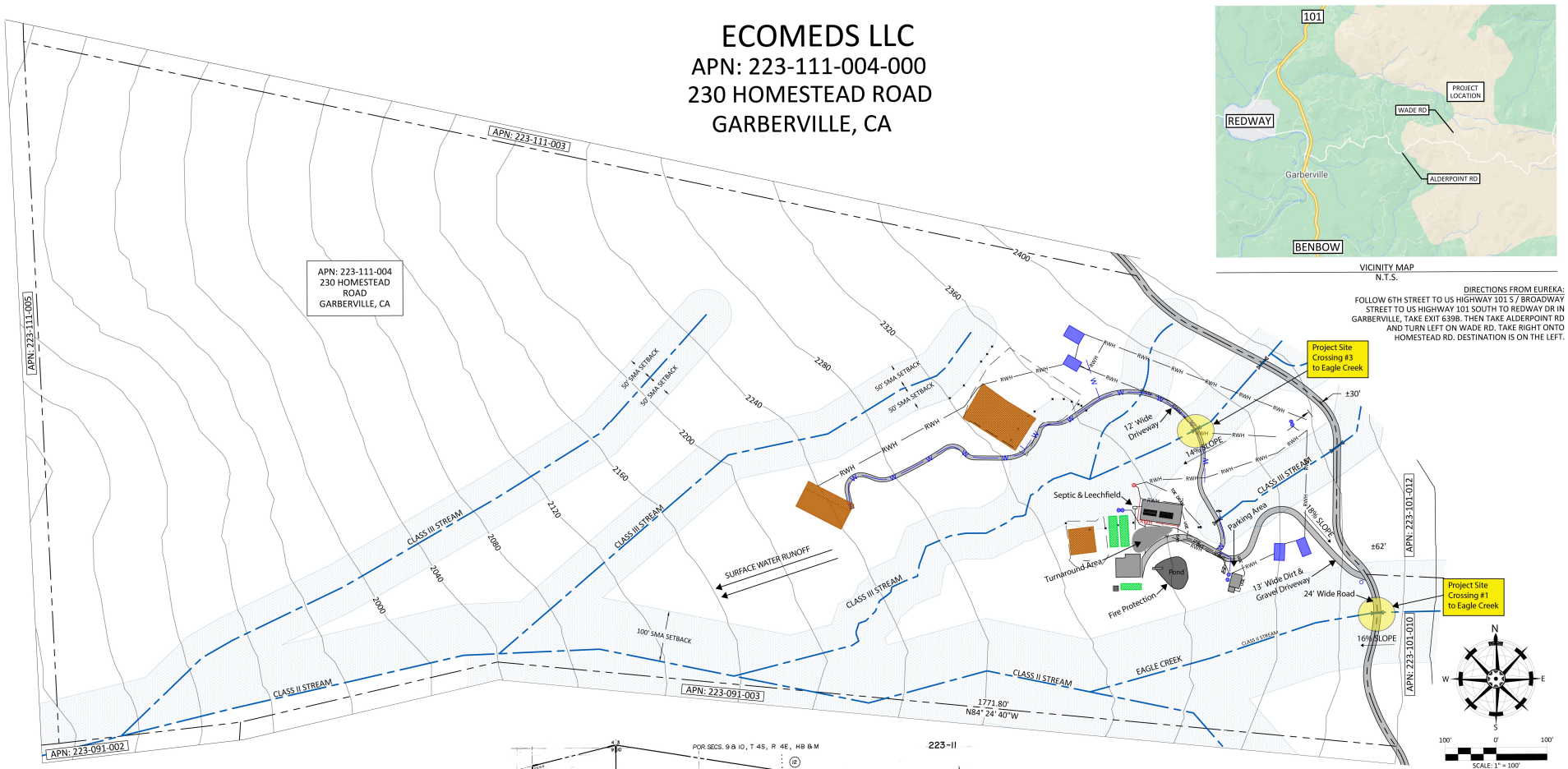
While the Humboldt GIS indicates the parcel is in an area of high slope instability, it is not within a flood hazard zone, nor in an earthquake hazard zone. The parcel is surrounded by rural improved properties. No impact to these other parcels is expected.

Crossing upgrades are expected to minimize baseline sedimentation levels entering the watershed from the property, and will avoid potential significant impacts associated with total crossing failure. All of the crossing upgrades will be constructed according to BMPs found in the "Handbook for Forest, Ranch and Rural Roads" (Weaver, Weppner and Hagans, 2015), and the California Salmonid Stream Habitat Manual, Part X (Weaver, Hagans and Weppner, 2006) by a licensed contractor.

These upgraded watercourse crossings will achieve required 100-year flood requirements and reduce potential sediment deposits into the streams connected to the Eel River, protecting water quality, aquatic ecosystems, and limiting impact on downstream resources.

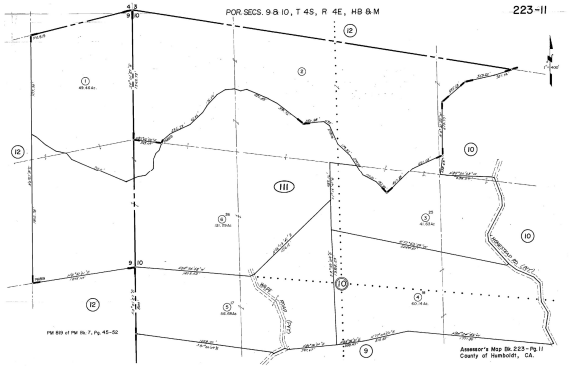
Permanent impacts to existing native channel bed, channel, watercourse banks, and associated riparian habitat will be negligible and avoided. Incidental destruction of small areas of riparian habitat growing on existing road fill or in disturbed channel areas is expected at the proposed sites but will be minimized during remediation. No loss of trees is expected.

ECOMEDS LLC
APN: 223-111-004-000
230 HOMESTEAD ROAD
GARBERVILLE, CA



VICINITY MAP
N.T.S.

DIRECTIONS FROM EUREKA:
FOLLOW 6TH STREET TO US HIGHWAY 101 S / BROADWAY STREET TO US HIGHWAY 101 SOUTH TO REDWAY DR IN GARBERVILLE, TAKE EXIT 639B. THEN TAKE ALDERPOINT RD AND TURN LEFT ON WADE RD. TAKE RIGHT ONTO HOMESTEAD RD. DESTINATION IS ON THE LEFT.



PARCEL MAP
N.T.S.

LEGEND

<P>	PROPOSED	POD	POINT OF DIVERSION
<E>	EXISTING	POS	POINT OF STORAGE
W	WELL	POU	POINT OF USE
P	PROPANE TANK		STREAM / CREEK
	ELECTRIC / TELEPHONE POLE		PROPERTY LINE
RWH RWH	RAINWATER HARVEST FILL LINE		EXISTING 40' CONTOUR
	RAIN WATER HARVEST GUTTER SYSTEM	OHE	OVER-HEAD ELECTRIC
W W	WATER SUPPLY LINE		FENCE / WALL
	PROPOSED	OHT	OVER-HEAD TELEPHONE
	STREAM MANAGEMENT AREA		EXISTING WATER STORAGE
	EXISTING GREENHOUSE CULTIVATION		EXISTING WATER STORAGE
	PROPOSED GREENHOUSE CULTIVATION		EXISTING OUTDOOR CULTIVATION
			PROPOSED OUTDOOR CULTIVATION

REV. 10/30/2023 - Margo Advisors

SRA REQUIREMENTS

☒ PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS.

☒ PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS.

PROPERTY LINE AND BEARING NOTES

THIS IS NOT A RECORD OF SURVEY. THE BOUNDARY SHOWN IS APPROXIMATE AND BASED OFF OF ASSESSOR'S PARCEL MAPS. NO SURVEY MONUMENTS ARE FOUND NOR SHOWN. CONTOURS SHOWN WERE IMPORTED FROM HUMBOLDT COUNTY GIS MAPPING DEPARTMENT. AERIALS ARE FROM DRONE FLIGHTS AND GOOGLE EARTH PRO.

CONTRACTOR ALERT!

CONTRACTOR MUST CONTACT USA NORTH DIG AT 811 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES. EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

OWNER / APPLICANT INFORMATION

OWNER/APPLICANT:
MAILING ADDRESS:
EMAIL:

PARCEL / SITE INFORMATION

ZONING: AE-B-6
LOT SIZE: 60.81 ACRES
PARCEL CENTROID: N40° 07' 44.39", W123° 42' 55.75"
PARCEL 4 OF ASSESSOR'S MAPS, BK 223 PG 11
CREEKS / STREAMS: YES
GRADING: SEE GRADING PLAN
WATER: RAIN WATER CATCHMENT
WASTE WATER: SEPTIC SYSTEM
POWER: RENEWABLE ENERGY & BACKUP GENERATOR
TREES TO BE REMOVED: NO

CULTIVATION NOTES

☒ THERE ARE NO SCHOOLS, SCHOOL BUS STOPS, PLACE OF WORSHIP, PUBLIC PARKS, OR TRIBAL CULTURAL RESOURCES WITHIN 600' OF CULTIVATION AREAS.

☒ THERE ARE NO OFFSITE RESIDENCES WITHIN 275' OF CULTIVATION AREAS

DTN ENGINEERING & CONSULTING
dnicoletti@dtnengineering.com

NO.	HISTORY / REVISIONS	BY	CHCK	DATE

PLOT PLAN FOR EAGLE CREEK ROAD IMPROVEMENTS
EcoMeds LLC
230 HOMESTEAD ROAD
GARBERVILLE, CA

APN: 223-111-004-000
DRAWN BY: RGN - UDD
DATE: 8/18/2022

PLOT PLAN OVERALL

SHEET NO. 1

save_date:8/18/2022 file_name:223-111-004_plot_plan.dwg

PLOT PLAN AND TENTATIVE MAP CHECKLIST

The following information must be shown on your plot plan or tentative map. Please check ✓ the box to the left of the items shown on the plot plan or tentative map. If any item is not on your site to your knowledge, write "N/A" next to the box. Plot plans shall be drawn on a minimum size sheet of 8-1/2" x 11", and tentative subdivision maps on a minimum size sheet of 18" x 26". ***Note: This Checklist must be completed by the applicant and submitted with your application.***

Applicant's Name Eagle Creek Ranch Road Improvements APN 223-111-004

_____

FOR ALL PROJECTS

☒ 1. Name of applicant(s)
☒ 2. Location or vicinity map (on or attached to the plot plan)
☒ 3. The subject parcel (show entire parcel with dimensions)
☒ 4. Date, north arrow and scale
☒ 5. Name, County road numbers, and width of all existing and proposed access roadways adjacent to or within the subject parcel (indicate width of traveled way, grade (in % slope), and surface)
☒ 6. Existing and proposed improvements (label as "existing" and "proposed" with dimensions and distance to nearest two (2) property lines)
- ☒ a. Structures and buildings (include floor area, height and proposed use)
- ☒ b. Driveways and turnaround areas (indicate width, grade (in % slope) and surface)
- N/A ☐ c. Utility lines (electric, gas, telephone, sewer, water, and cable TV)
- ☒ d. Septic tanks and leachfields (label primary/reserve areas and test holes)
- N/A ☐ e. Wells
- ☒ f. Parking and loading areas (show individual parking spaces, including handicapped parking and ramps)
- N/A ☐ g. Storm drains, curbs and gutters
- ☒ h. Emergency water storage tanks and fire hydrants
- N/A ☐ i. Landscaped areas (include proposed exterior lighting)
- N/A ☐ j. Major vegetation (identify mature trees (12" dbh or larger) to be removed)
- N/A ☐ k. Diked areas
- N/A ☐ l. Proposed grading and fill (estimate volume)
- N/A ☐ m. Signs (indicate size, illuminated, and design (e.g., monument, pylon, etc.))
- N/A ☐ n. Other - specify _____

☒ 7. Direction of surface water runoff
☐ N/A 8. Location and width of all existing and proposed easements of record
☐ N/A 9. Hazardous areas (indicate on map if on the project site or within 400 feet of the project site):
- N/A ☐ a. Areas subject to inundation or flooding
- N/A ☐ b. Steep or unstable slopes
- N/A ☐ c. Expansive (clay) soils
- N/A ☐ d. Earthquake faults
- N/A ☐ e. Hazardous waste or substance sites
- ☐ f. Other - specify _____

☒ 10. Sensitive habitat areas (indicate on map if on project site or within 400 feet of the project site):
- ☒ a. Creeks, rivers, sloughs and other drainage courses
- N/A ☐ b. Lakes, ponds, marshes, or "wet" meadows
- N/A ☐ c. Beaches
- N/A ☐ d. Sand dunes
- ☐ e. Other - specify _____

☐ N/A 11. Historical buildings or known archaeological or paleontological resources
☒ 12. Land use and buildings on adjacent parcels, and approximate distances to closest property lines

FOR LOT LINE ADJUSTMENT PLOT PLANS ONLY

☐ N/A 13. Proposed new lines and lines to be eliminated (show lines to be eliminated as dashed)
☐ N/A 14. Areas (in square footage or acreage) of the initial and resulting parcels

FOR TENTATIVE SUBDIVISION MAPS ONLY

☐ N/A 16. Approximate dimensions and areas of all proposed lots
☐ N/A 17. A statement that "All easements of record are shown on the tentative map and will appear on the recorded subdivision map"
☐ N/A 18. Contour lines (at _____ intervals)
☐ N/A 19. For major subdivisions (5 or more parcels): proposed drainage improvements, details of any grading to be performed, approximate radii of all roadway curves, areas for public use, and typical sections of all streets, highways, ways and alleys
☐ N/A 20. Names and assessor's parcel numbers of all contiguous ownerships

NOTE: THE SUBMITTAL OF INCOMPLETE OR ILLEGIBLE PLOT PLANS OR TENTATIVE MAPS WILL CAUSE DELAYS IN THE PROCESSING OF YOUR APPLICATION

Project: Eagle Creek Ranch Road Improvements

Applicant: EcoMeds, LLC

Contact: Robert May

APN: APN: 223-111-004

Grant Funding Requested: $24,486.00

Scope of Work

The project is for rock armoring of two stream crossings and removal of a water bladder imposed within the roadway buffer at another stream crossing. The scope of work is described in the applicant's LSA agreement with Fish & Wildlife, and is summarized as follows:

Crossing 1: Existing 36" diameter culvert is properly sized to meet 100-year events but requires proper rock armoring for flows and associated debris, especially with regard to the outflow, to minimize erosion. Armoring must fill in eroded voids and stabilize erosion as directed by a licensed engineer. Work will require removing metal debris from the stream channel before rock armoring. Debris will be discarded at a proper waste facility following removal. Incidental destruction of small areas of riparian habitat growing on existing road fill or in disturbed channel areas is expected but will be minimized during remediation.

Crossing 2: Remove water bladder from roadside, restore any drainage features, and dispose of discarded material at a proper waste facility.

Crossing 3: Existing 24" culvert is properly sized to meet 100-year events but requires proper rock armoring for flows and associated debris, especially with regard to the outflow, to minimize erosion. Armoring must fill in eroded voids and stabilize erosion as directed by a licensed engineer. Incidental destruction of small areas of riparian habitat growing on existing road fill or in disturbed channel areas is expected but will be minimized during remediation.

The project requires heavy equipment and a supply of rock. The work will be completed by Edwards Excavation & Restoration, license number 971935. The Water Board has issued a 401 certification for this project.

Project: Eagle Creek Ranch Road Improvements

Applicant: EcoMeds, LLC

Contact: Robert May

APN: APN: 223-111-004

Grant Funding Requested: $24,486.00

Mitigation and Remediation Fund
Schedule for Completion

Milestone	Start Date	End Date
Final Bidding and Contracting	April 1, 2023	April 30, 2023
Project Ground-Breaking	June 1, 2023	
Project Completion		August 1, 2023
Monitoring	August 1, 2023	Ongoing

Project: Eagle Creek Ranch Road Improvements

Applicant: EcoMeds, LLC

Contact: Robert May

APN: APN: 223-111-004

Grant Funding Requested: $24,486.00

Erosion Control Plan

To protect nearby watershed areas and nearby habitat the site is managed to meet standard conditions and follow best practices in accordance with guidelines provided by the North Coast Regional Water Quality Control Board (NCRWQCB). These practices address erosion control and drainage features, spoils management, water storage and use, irrigation runoff, fertilizers and pesticides, and stream and wetland buffers when applicable.

Best practice steps for this site can include:

- Moderate road shaping and ditch-relief used to optimize drainage to stable areas
- Out-sloping maintained to ensure proper capture and capacity of seasonal flow
- Usage of vegetative ground cover and gravel for added sediment control
- Application of straw mulch to exposed soils to minimize erosion
- Careful irrigation, with immediate oversight, to reduce the possibility of irrigation runoff

Applicant will maintain driveways and access roads to eliminate erosion or runoff during storms. Prior to the winter season and significant storm events, roads and cultivation sites will be inspected and monitored to ensure that runoff is prevented.

If potential issues are discovered during or immediately following a storm event, they will be corrected as soon as possible to ensure minimal impact and prevent sediment flow in the future. This will include proper ditching and vegetation buffers, and as needed, straw, seed, wattles, jute cloth or other industry standards used to prevent and eliminate runoff.

Project: Eagle Creek Ranch Road Improvements

Applicant: EcoMeds, LLC

Contact: Robert May

APN: APN: 223-111-004

Grant Funding Requested: $24,486.00

Project Budget

Item	Grant Funds	Other Funds (Source)
Permit Fees		
401 Certification		$2,066.00 (Applicant)
Consultant and Professional Fees		
DTN Engineering		$2,500.00 (Applicant)
Margro Advisors	$1,386.00	
*Materials, Equipment and Labor**		
Edwards Excavation & Restoration	$23,100.00	
Totals	**$24,486.00**	**$4,566.00**

*See attached bid

Estimate

Date	Estimate #
10/23/2022	5

EDWARDS
EXCAVATION & RESTORATION
General Engineering Contractors

P.O. Box 245
Whitethorn, CA 95589
Cell 707-496-3353
Phone/Fax 707-986-1578
edwardsexcavation@hotmail.com

LIC#971935
LTO# A11409

Eagle Creek Ranch LLC

Description	Qty/ Hour	Rate	Total
Job description- LSA compliance work			
Mobilization of equipment	1	2,500.00	2,500.00
Crossing #1 remove metal debris from channel then armoring outflow of existing 36" culvert			
Trucking and rock	1	10,000.00	10,000.00
Equipment services	1	3,500.00	3,500.00
Trucking out scrape metal	1	900.00	900.00
Riprap Placement Labor			
Equipment services	1	1,000.00	1,000.00
Crossing #3 armor outlet of existing 24" culvert			
Trucking and rock	1	2,000.00	2,000.00
Equipment services	1	700.00	700.00
Demobilization of equipment	1	2,500.00	2,500.00

All equipment, trucking, & material price subject to change due to potential cost increase

Total $23,100.00

July 25, 2018 WDID:1_12CC403281

ROBERT MAY
230 HOMESTEAD ROAD
GARBERVILLE, CA 95542

Subject: Notice of Applicability - Waste Discharge Requirements Water Quality Order WQ-2017-0023-DWQ

The attached Notice of Applicability provides notice that the requirements of the State Water Board *Cannabis Cultivation Policy- Principles and Guidelines for Cannabis Cultivation* (Policy), and the *General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities*, Order No. WQ-2017-0023-DWQ (General Order) are applicable to the site as described below. Based on the information provided, the Discharger self-certifies the cannabis cultivation activities are consistent with the requirements of the State Water Board Policy and General Order.

Please direct all submittals, discharge notifications, and questions regarding compliance and enforcement to the North Coast Regional Water Quality Control Board Cannabis Program at (707) 576-2676 or northcoast.cannabis@waterboards.ca.gov .

Sincerely,

Matthias St. John
Executive Officer
North Coast Regional Water Quality Control Board

180723_1L_1_12CC403281_1B16289CHUM_EcoMeds LLC_NOA_TW

NOTICE OF APPLICABILITY – WASTE DISCHARGE REQUIREMENTS, WATER QUALITY ORDER WQ-2017-0023-DWQ, ECOMEDS LLC, HUMBOLDT COUNTY APN(s) 223-111-004; WDID: 1_12CC403281

Robert May (hereafter "Discharger") submitted information through the State Water Resources Control Board's (State Water Board's) online portal on July 03, 2018, for discharges of waste associated with cannabis cultivation related activities. Based on the information provided, the Discharger self-certifies the cannabis cultivation activities are consistent with the requirements of the State Water Board *Cannabis Cultivation Policy-Principles and Guidelines for Cannabis Cultivation* (Policy), and the *General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities*, Order No. WQ-2017-0023-DWQ (General Order). This letter provides notice that the Policy and General Order are applicable to the site as described below. You are hereby assigned waste discharge identification (WDID) number **1_12CC403281**. The original WDID assigned by the North Coast Regional Water Quality Control Board was 1B16289CHUM.

The Discharger is responsible for all the applicable requirements in the Policy, General Order, and this Notice of Applicability (NOA).

1. FACILITY AND DISCHARGE DESCRIPTION

All dischargers enrolled under the North Coast Regional Water Board's Order (R1-2015-0023) or the Central Valley Regional Water Board's Order (R5-2015-0113) as of October 17, 2017, (the adoption date of the General Order) may retain the reduced setbacks applicable under the appropriate Regional Water Board order unless the Executive Officer for the appropriate Regional Board determines that the reduced setbacks applicable under their regional order are not protective of water quality. However, sites that expand their cannabis cultivation area or other cannabis related activities must comply with the riparian setbacks in the General Order.

The information submitted by the Discharger states the disturbed area is equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet), no portion of the disturbed area is within the setback requirements, no portion of the disturbed area is located on a slope greater than 30 percent, and the cannabis cultivation area is less than or equal to 1 acre.

Based on the information submitted by the Discharger, the cannabis cultivation activities are classified as Tier 1 Low Risk.

2. SITE-SPECIFIC REQUIREMENTS

The Policy and General Order are available on the Internet at <*http://www.waterboards.ca.gov/cannabis*>. The Discharger shall ensure that all site operating personnel know, understand, and comply with the requirements contained in the

Policy, General Order, this NOA, and the Monitoring and Reporting Program (MRP, Attachment B of the General Order). Note that the General Order contains standard provisions, general requirements, and prohibitions that apply to all cannabis cultivation activities.

The application requires the Discharger to self-certify that all applicable Best Practicable Treatment or Control (BPTC) measures are being implemented, or will be implemented by the onset of the winter period (November 15 - April 1), following the enrollment date. Landowners of the cultivation site in the North Coast Region are required to submit and implement *Site Management Plans* that describes how BPTC measures are implemented property-wide, including BPTC measures implemented to address discharges from legacy activities (e.g. former timber harvest, road building, mining, etc.) at the site per Provision C.1.a. of the General Order. Dischargers that cannot implement all applicable BPTC measures by the onset of the winter period, following their enrollment date, shall submit to the appropriate Regional Water Board a *Site Management Plan* that includes a time schedule and scope of work for use by the Regional Water Board in developing a compliance schedule as described in Attachment A of the General Order.

During reasonable hours, the Discharger shall allow the State Water Board or Regional Water Quality Control Board (collectively Water Boards), California Department of Fish and Wildlife, CAL FIRE, and any other authorized representatives of the Water Boards upon presentation of a badge, employee identification card, or similar credentials, to:

i. Enter premises and facilities where cannabis is cultivated; where water is diverted, stored, or used; where wastes are treated, stored, or disposed; or in which any records are kept;

ii. Access and copy, any records required to be kept under the terms and conditions of the Policy and General Order;

iii. Inspect, photograph, and record audio and video, any cannabis cultivation sites, and associated premises, facilities, monitoring equipment or device, practices, or operations regulated or required by the Policy and General Order; and

iv. Sample, monitor, photograph, and record audio and video of site conditions, any discharge, waste material substances, or water quality parameters at any location for the purpose of assuring compliance with the Policy and General Order.

3. TECHNICAL REPORT REQUIREMENTS

The following technical report(s) shall be submitted by the Discharger as described below:

A Site Management Plan, by September 30, 2018, consistent with the requirements of General Order Provision C.1.a., and Attachment A, Section 5. Attachment D of the General Order provides guidance on the contents of the Site Management Plan.

A Site Closure Report must be submitted 90 days prior to permanently ending cannabis cultivation activities and seeking to rescind coverage under the General Order. The *Site Closure Report* must be consistent with the requirements of General Order Provision C.1.e., and Attachment A, Section 5. Attachment D of the General Order provides guidance on the contents of the *Site Closure Report.*

4. MONITORING AND REPORTING PROGRAM

The Discharger shall comply with the Monitoring and Reporting Program (MRP). Attachment B of the General Order provides guidance on the contents for the annual reporting requirement. Annual reports shall be submitted to the Regional Water Board by March 1 following the year being monitored. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Board Executive Officer or the State Water Board Division of Water Quality Deputy Director, or the State Water Board Chief Deputy Director.

5. ANNUAL FEE

According to the information submitted, the discharge is classified as Tier 1 Low Risk with the current annual fee assessed at $1,000. The fee is due and payable on an annual basis until coverage under this General Order is formally rescinded. To rescind coverage, the Discharger must submit a Notice of Termination, including a Site Closure Report at least 90 days prior to termination of activities and include a final MRP report.

6. TERMINATION OF COVERAGE UNDER THE GENERAL ORDER & REGIONAL WATER BOARD CONTACT INFORMATION

Cannabis cultivators that propose to terminate coverage under the Conditional Waiver or General Order must submit a Notice of Termination (NOT). The NOT must include a *Site Closure Report* (see Technical Report Requirements above), and Dischargers enrolled under the General Order must also submit a final monitoring report. The Regional Water Board reserves the right to inspect the site before approving a NOT. Attachment C of the General Order includes the NOT form and Attachment D of the General Order provides guidance on the contents of the *Site Closure Report.*

If the Discharger cannot comply with the General Order, or will be unable to implement an applicable BPTC measure contained in Attachment A by the onset of the winter period each year, the Discharger shall notify the Regional Water Board staff by telephone at (707) 576-2676 or email at northcoast.cannabis@waterboards.ca.gov so that a site-specific compliance schedule can be developed.

cc: Kevin Porzio, State Water Resources Control Board, dwq.cannabis@waterboards.ca.gov
Michael Vella, California Department of Food and Agriculture, michael.vella@cdfa.ca.gov

Cheri Sanville, California Department of Fish and Wildlife, cheri.sanville@wildlife.ca.gov
Steve Werner, Humboldt County Planning Division, swerner@co.humboldt.ca.us

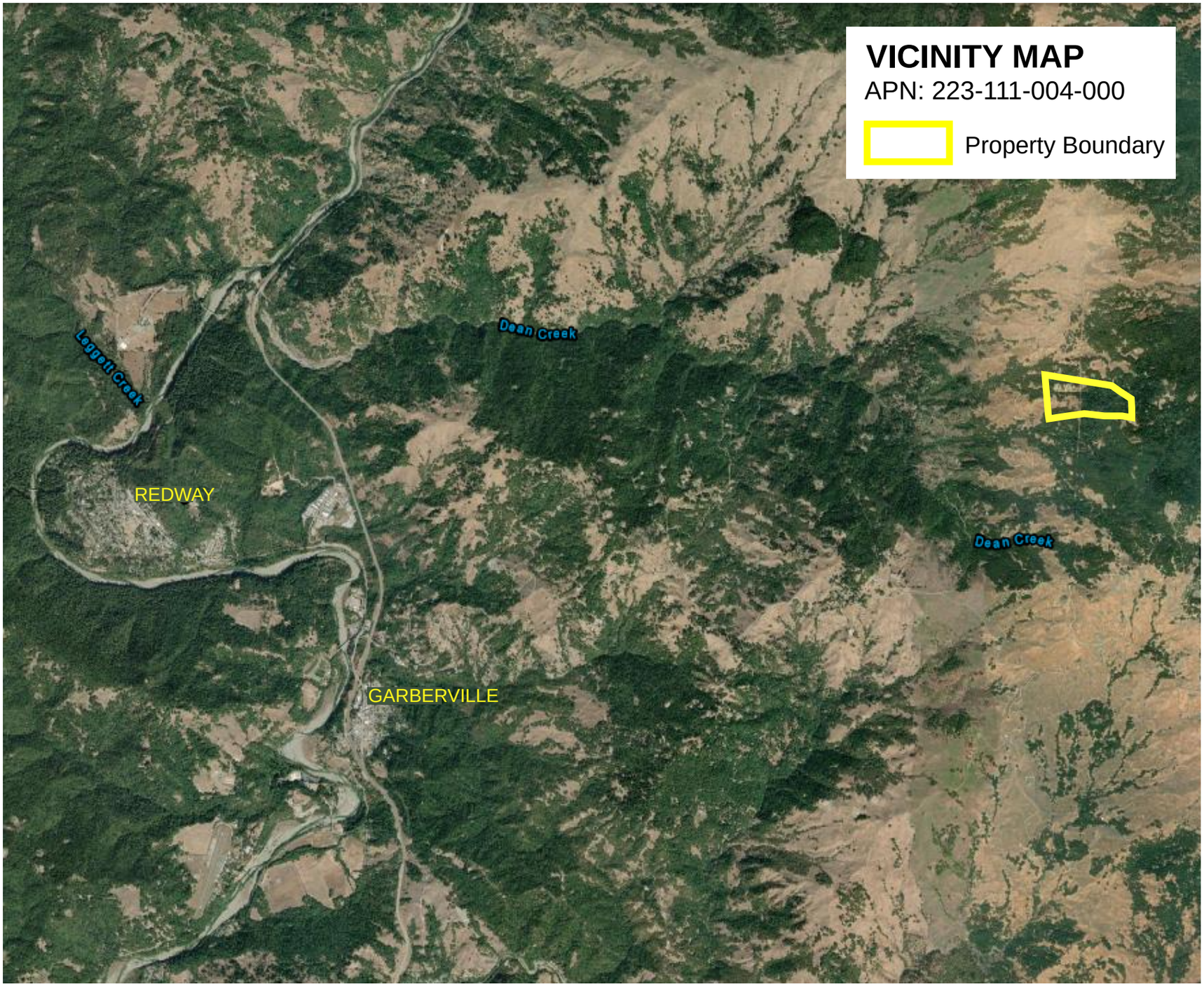


Figure 1 - Vicinity Map

May Topo Map

Humboldt County Planning and Building Department

Printed: October 25, 2022 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.

Highways and Roads
- Principal Arterials
- Minor Arterials
- Major Collectors
- Minor Collectors
- Local Roads
- Private or Unclassified
- Major River or Stream

Blue Line Streams
- Perennial 1-3
- Perennial >4
- Intermittent
- Subsurface

- City Boundary
- Counties
- Parcels (no APN labels)

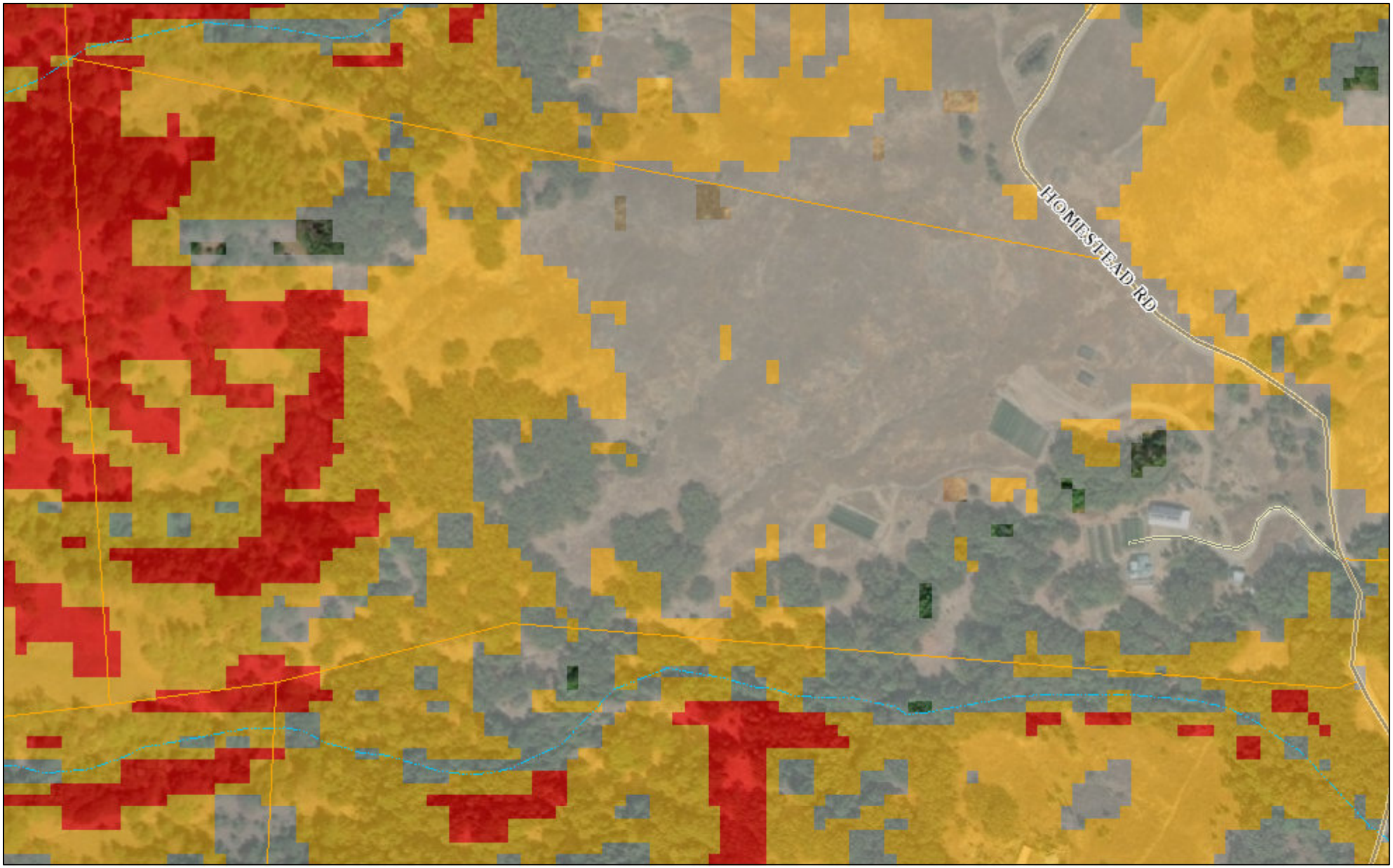
Topographic Contours 40ft
- Minor Interval
- Major Interval

0 180 360 720 Feet
0 0.0325 0.065 0.13 Miles
RF= 1:4,514 1 in = 376 ft

N W E S

Sources: Humboldt County GIS
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
FRAP, FEMA. USGS. ESA, CGS
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Figure 2 - Topo Map



May Slope Map

Humboldt County Planning and Building Department

Printed: October 25, 2022 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.

Highways and Roads
- Principal Arterials
- Minor Arterials
- Major Collectors
- Minor Collectors
- Local Roads
- Private or Unclassified
- Major River or Stream

Blue Line Streams
- Perennial 1-3
- Perennial >4
- Intermittent
- Subsurface
- City Boundary
- Counties
- Parcels (no APN labels)

0 180 360 720 Feet
0 0.0325 0.065 0.13 Miles
RF= 1:4,514 1 in = 376 ft

N W E S

Sources: Humboldt County GIS
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
FRAP, FEMA. USGS. ESA, CGS
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

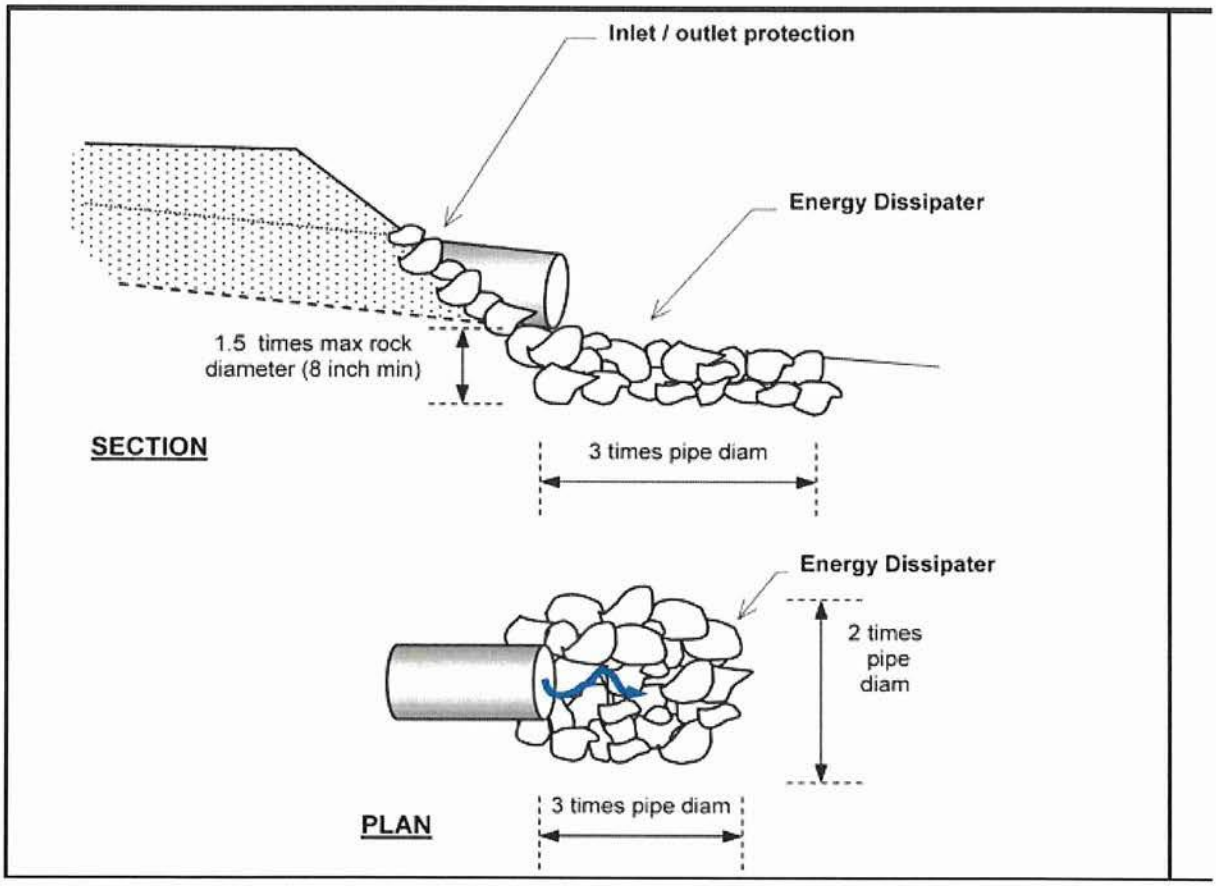
Figure 3 - Slope Map

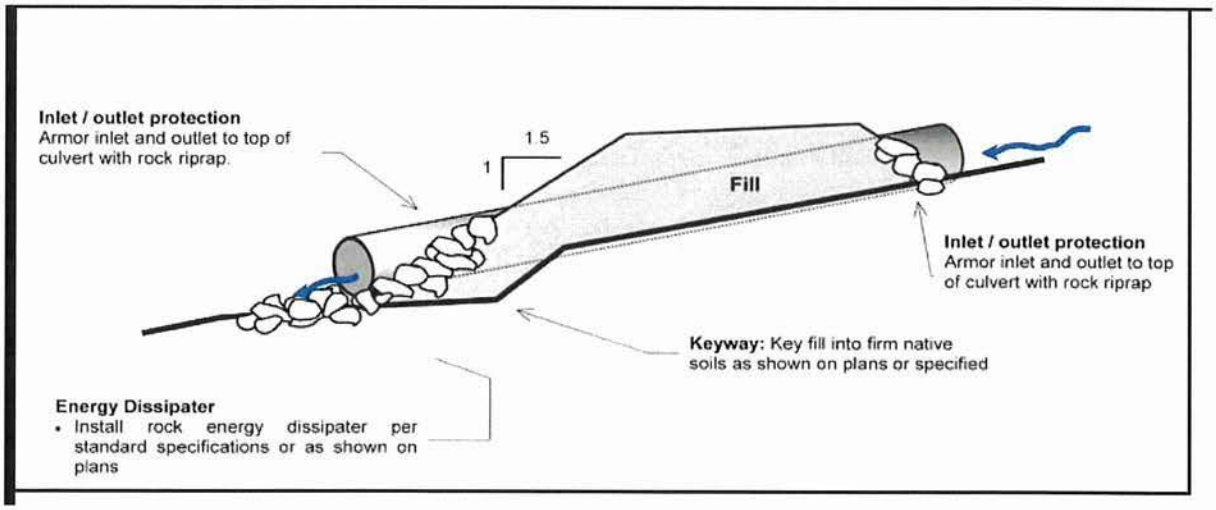
Culvert Installation Specifications

- New culvert installations shall be sized to accommodate a 100-year storm.
- New culverts shall be placed at stream gradient, or have downspouts, or have energy dissipaters at outfall.
  - Align culverts with the natural stream channel orientation to ensure proper function, prevent bank erosion and minimize debris plugging.
  - Place culverts at the base of the fill and at the grade of the original streambed or install a downspout past the base of the fill. Downspouts should only be installed if there are no other options.
  - Culverts should be set slightly below the original stream grade so that the water drops several inches as it enters the pipe.
  - Culvert beds should be composed of rock-free soil or gravel, evenly distributed under the length of the pipe.
  - Compact the base and sidewall material before placing the pipe in its bed.
  - Lay the pipe on a well-compacted base. Poor basal compaction will cause settling or deflection in the pipe and can result in separation at a coupling or rupture in the pipe wall.
  - Backfill material should be free of rocks, limbs or other debris that could dent or puncture the pipe or allow water to seep around the pipe.
  - Cover one end of the culvert pipe, then the other end. Once the ends are secure, cover the center.
  - Tamp and compact backfill material throughout the entire process, using water as necessary for compaction.
  - Backfill compacting will be done in 0.5 – 1.0 foot lifts until 1/3 of the diameter of the culvert has been covered.
  - Push layers of fill over the crossing to achieve the final design road grade, at a minimum of one-third to one-half the culvert diameter.
- Critical dips shall be installed on culvert crossings to eliminate diversion potential.
- Road approaches to crossings shall be treated out to the first drainage structure (i.e. waterbar) or hydrologic divide to prevent transport of sediment.
- Road surfaces and ditches shall be disconnected from streams and stream crossings to the greatest extent feasible. Ditches and road surfaces that cannot be feasible disconnected from streams or stream crossings shall be treated to reduce sediment transport to streams.
- If downspouts are used, they shall be secured to the culvert outlet and shall be secure on fill slopes.
- Culverts shall be long enough so that road fill does not extend or slough past the culvert ends.
- Inlet of culverts and associate fill shall be protected with appropriate measures that extend at least as high as the top of the culvert.
- Outlet of culverts shall be armored with rock if road fill sloughing into channel can occur.
- Armor inlets and outlets with rock, or mulch and seed with grass as needed (not all stream crossings need to be armored).
- Where debris loads could endanger the crossing a debris catchment structure shall be constructed upstream of the culvert inlet.
- Bank and channel armoring may occur when appropriate to provide channel and bank stabilization.

Figure 4A - Culvert Specifications

Culvert Installation Specifications

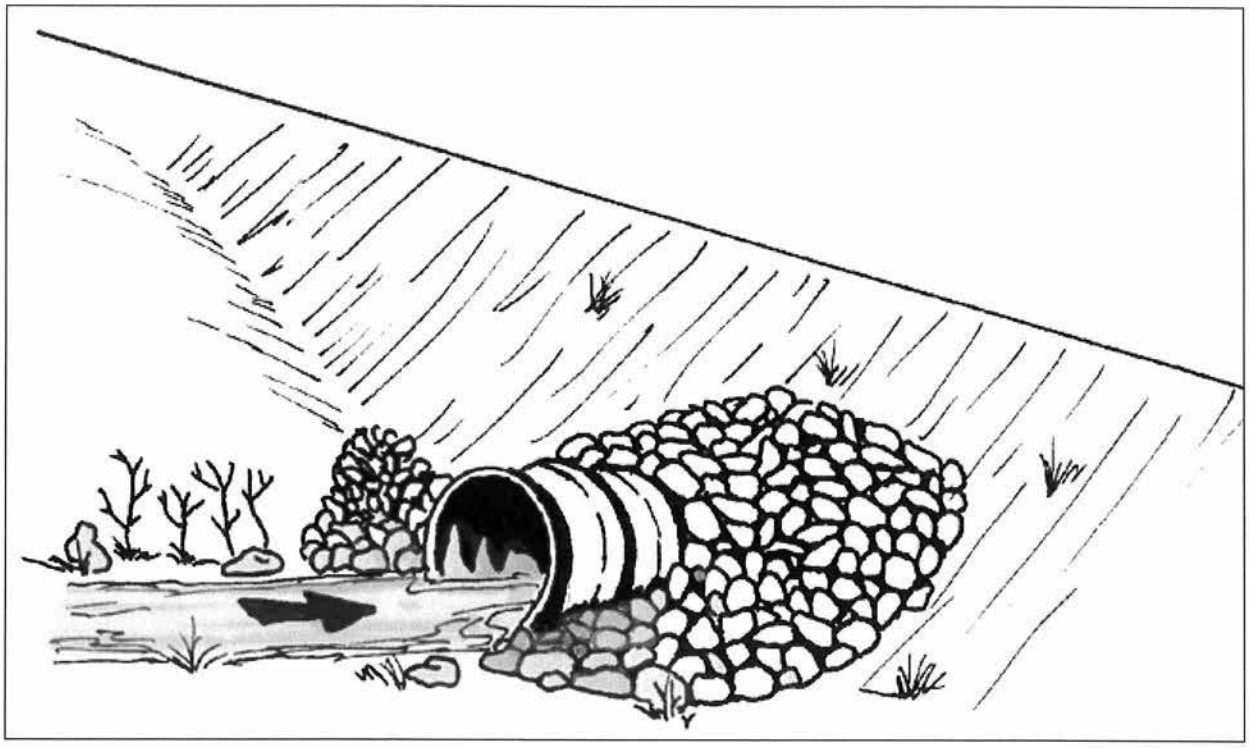




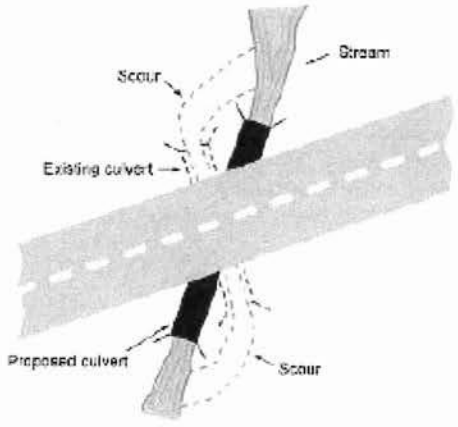
Riprap installed to protect the inlet and outlet of a stream crossing culvert from erosion or for energy dissipation should be keyed into the natural channel bed and banks to an approximate depth of about 1.5x the maximum rock thickness. Riprap should be placed at least up to the top of the culvert at both the inlet and outlet to protect them from splash erosion and to trap any sediment eroded from the newly constructed fill slope above.

Figure 4B - Culvert Specifications

Culvert Installation Specifications



Rock armor used for inlet and outlet protection (i.e., not as energy dissipation) does not have to be sized to protect against high velocity scour. If the culvert is properly sized and its length is adequate, it should be able to transmit flood flows without scouring the inlet or eroding the outlet around the culvert. Armor shown here is designed to protect the culvert outlet and basal fill from splash erosion and from occasional submergence and currents within standing water (at the inlet) when the culvert plugs. Importantly, inlet and outlet armor also serves to trap sediment that has been eroded or slides down the new constructed fill face in its first several years, until the slope becomes well vegetated.



HANDBOOK FOR FOREST, RANCH AND RURAL ROADS

FIGURE 97. *Culvert alignment should be in relation to the stream and not the road. It is important that the stream enters and leaves the culvert in a relatively straight horizontal alignment so streamflow does not have to turn to enter the inlet or discharge into a bank as it exits. This figure shows a redesigned culvert installation that replaces the bending alignment that previously existed. Channel turns at the inlet increase plugging potential because wood going through the turn will not align with the inlet. Similarly, channel turns at the inlet and outlet are often accompanied by scour against the channel banks (Wisconsin Transportation Information Center, 2004).*

Figure 4C - Culvert Specifications

Culvert Installation Specifications

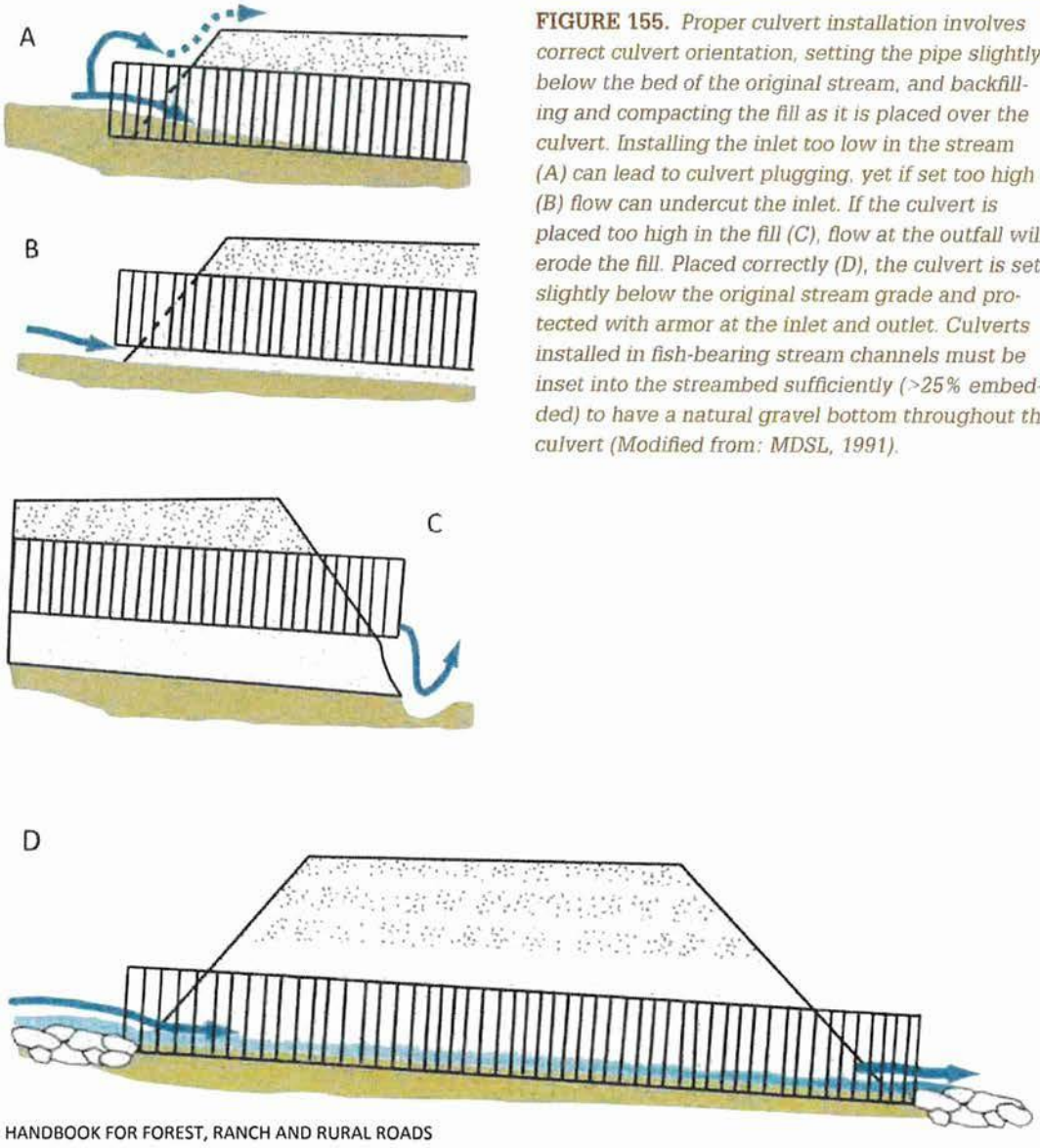
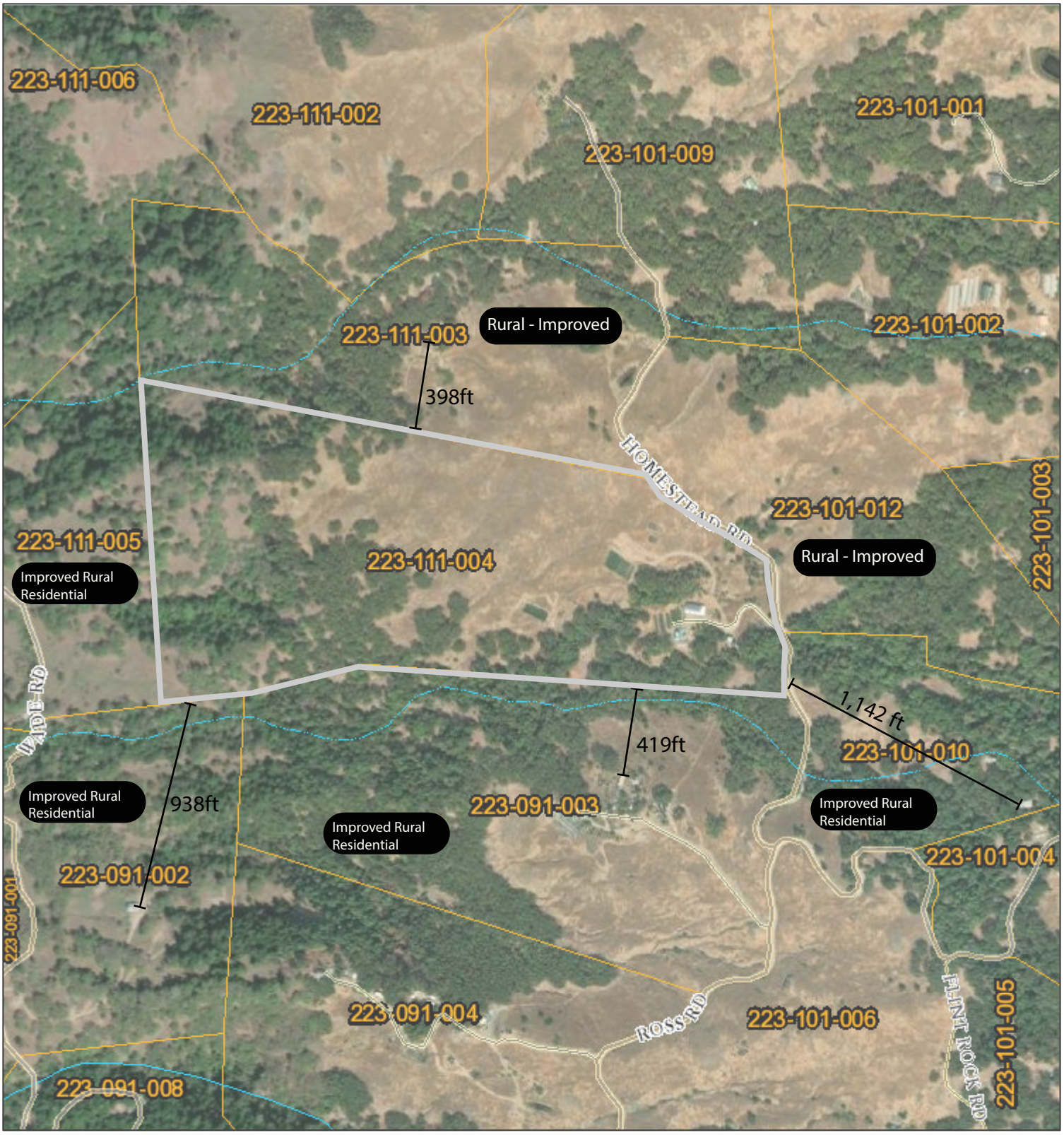


FIGURE 155. *Proper culvert installation involves correct culvert orientation, setting the pipe slightly below the bed of the original stream, and backfilling and compacting the fill as it is placed over the culvert. Installing the inlet too low in the stream (A) can lead to culvert plugging, yet if set too high (B) flow can undercut the inlet. If the culvert is placed too high in the fill (C), flow at the outfall will erode the fill. Placed correctly (D), the culvert is set slightly below the original stream grade and protected with armor at the inlet and outlet. Culverts installed in fish-bearing stream channels must be inset into the streambed sufficiently (>25% embedded) to have a natural gravel bottom throughout the culvert (Modified from: MDSL, 1991).*

HANDBOOK FOR FOREST, RANCH AND RURAL ROADS

Figure 4D - Culvert Specifications

Distance to Nearst Adjoining Parcel Stuctures & Adjoing Parcel Use Code Descriptions



Eagle Creek Parcel Map

Humboldt County Planning and Building Department

0 350 700 1,400 Feet

0 0.05 0.1 0.2 Miles

RF= 1:9,028 1 in = 752 ft

N W E S

Printed: October 31, 2022 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: Humboldt County GIS, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Highways and Roads
- Principal Arterials
- Minor Arterials
- Major Collectors
- Minor Collectors
- Local Roads

- Private or Unclassified
- Major River or Stream

Blue Line Streams
- Perennial 1-3
- Perennial >4

- Intermittent
- Subsurface
- City Boundary
- Counties
- Parcels
- Parcels (no APN labels)

Figure 5 - Adjacent Parcels