Site Management Plan

(Tier 1, Low Risk)

WDID - 1_12CC418891

Humboldt County
APN: 211-183-008-000, 211-184-006-000

Apps 10821

Prepared by:

Timberland Resource Consultants

165 South Fortuna Boulevard, Fortuna, CA 95540
707-725-1897 • fax 707-725-0972
trc@timberlandresource.com

9/8/2021

Purpose

This Site Management Plan (SMP) has been prepared on behalf of the cannabis cultivator for the Humboldt County property identified as Assessor Parcel Numbers 211-183-008 and 211-184-006, by agreement and in response to the State Water Resources Control Board Cannabis Cultivation Policy (Cannabis Policy), in congruence with Order WQ 2019-0001-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (General Order). The General Order implements the Cannabis Policy requirements, specifically those requirements that address waste discharges associated with cannabis cultivation activities. Cannabis cultivators covered under the General Order are subject to the requirements of the Cannabis Policy in its entirety. The Cannabis Policy provides a statewide tiered approach for permitting discharges and threatened discharges of waste from cannabis cultivation and associated activities, establishes a personal use exemption standard, and provides conditional exemption criteria for activities with a low threat to water quality.

Tier Designation

Tiers are defined by the amount of disturbed area. Tier 1 outdoor commercial cultivation activities disturb an area equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet). Tier 2 outdoor commercial cultivation activities disturb an area equal to or greater than 1 acre. Risk designation for Tier 1 and Tier 2 enrollees under the Cannabis Policy is based on the slope of disturbed areas and the proximity to a surface water body. Characterization is based on the risk designation summarized in Table 1 below.

Table 1: Summary of Risk Designation

Low Risk	Moderate Risk	High Risk
• No portion of the disturbed area is located on a slope greater than 30 percent, and • All of the disturbed area complies with the setback requirements.	• Any portion of the disturbed area is located on a slope greater than 30 percent, and • All of the disturbed area complies with the setback requirements.	• Any portion of the disturbed area is located within the setback requirements.

A thorough assessment of the project area including roads, disturbed areas, legacy features, and cultivation areas classify this enrollment into the **Tier 2, Low-Risk** designation.

Scope of Report

Tier 1 and Tier 2 cannabis cultivators are required to submit and implement a Site Management Plan that describes how they are complying with the requirements listed in Attachment A. The description shall describe how all applicable Best Practicable Treatment or Control (BPTC) measures are implemented. Cannabis cultivators within the North Coast Regional Water Quality Control Board jurisdiction are required to submit and implement Site Management Plans that describe how the Requirements are implemented property-wide, to include legacy activities. The SMP includes an Implementation Schedule to achieve compliance, but all work must be completed by the onset of the Winter Period each year. The cannabis cultivator shall ensure that all site operating personnel are familiar with the contents of the General Order and all technical reports prepared for the property copy of the General Order, and technical reports required by the General Order shall be kept at the cultivation site. Electronic copies of these documents are acceptable. Either format of maintained documents kept on site must be immediately presentable upon request.

Methods

The methods used to develop this SMP include both field and office components. The office component consisted of aerial photography review and interpretation, existing USGS quad map review, GIS mapping of field data, review of on-site photography points, streamflow calculations, general planning, and information gathered from the cannabis cultivator and/or landowner. The field component included mapping of all access roads, vehicle parking areas, Waters of the State, stream crossings, drainage features, cultivation sites, buildings, disturbed areas, and all other relevant site features within the project area and surrounding areas (as feasible). Cultivation areas, associated facilities, roads, and other developed and/or disturbed areas were assessed for discharges and related controllable water quality factors from the activities listed in the General Order. The field assessment also included an evaluation and determination of compliance with all applicable BPTC's per Section 2 of the General Order.

Property Description

The property assessed consists of two parcels totaling 97 acres located approximately 6 miles east of Honeydew, California, at an elevation of approximately 2,000 feet above mean sea level. The property is located in Sections 30 and 31, T2S, R2E, HB&M, Humboldt County, from the Bull Creek and Weott USGS 7.5' Quadrangle. Unnamed Class II and III watercourses flow north-south through the property that drains to Westlund Creek, which is tributary to the Mattole River.

Site Management Plan

Order WQ 2019-0001-DWQ [WDID - 1_12CC418891]

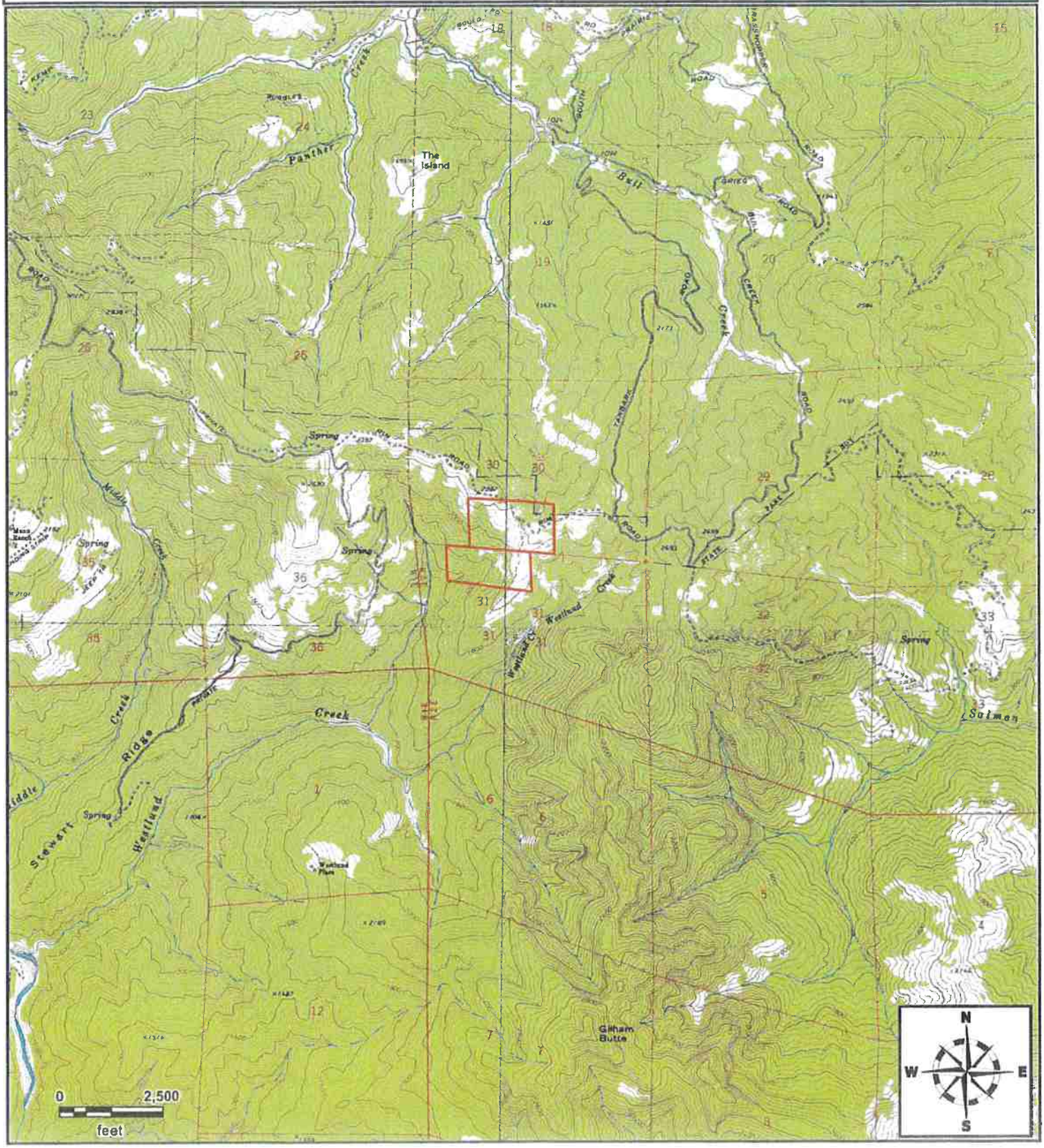
Sections 30,31, T2S, R2E, HB&M, Humboldt County, Bull Creek and Weott 7.5' USGS Quadrangle

TRC-523

General Locator Map

Property Boundary

Timberland Resource Consultants



Project Description

Cannabis cultivation on the property consists of four 34' x 105' hoop-houses/greenhouses and three 34' x 98' hoop-houses/greenhouses for a total general cultivation area of 24,366 ft². The cultivation areas are located within 65,469 ft² of disturbed area, which are located in four separate areas on the property. This project is being permitted by Humboldt County to cultivate cannabis. This project was previously enrolled in the North Coast Regional Water Quality Control Board Order No. R1-2015-0023 under WDID-1B16151CHUM and has since enrolled with the State Water Resources Control Board as WDID-1_12CC418891. This project is being classified as Tier 2, Low Risk.

Table 1: Cultivation Site Parameters.

Cultivation Area	Land Disturbance Area (ft²)	General Cultivation Area (ft²)	Adjoining Hillslopes (% Grade)
A	18,200	8,200	27
B	23,257	6,664	28
C	9,000	3,600	23
D	17,752	3,332	28
Totals:	68,209	21,796	

Table 2: Project Permitting

Additional Required Permits Related to Project, Type, and Status	
LSAA/1600	Lake and Streambed Alteration Agreement from CDFW – Notification No. 1600-2019-0447-R1
401 WQC	Approved

Table 3: Disturbance Area and Riparian Setback Distances

Disturbed Area	Disturbance Area Distances and Riparian Setbacks				
	Class I [Setback: 100']	Class II [Setback: 100']	Class III [Setback: 50']	Perennial Spring or Wetland [Setback: 50']	Disturbed Area Within Setbacks [ft²]
Cultivation Area A	>200'	>100'	60'	>200'	0
Cultivation Area B	>200'	>100'	60'	>200'	0
Cultivation Area C	>200'	>100'	>200'	>200'	0
Cultivation Area D	>200'	>100'	>200'	>200'	0
				Total =	0

Water Storage and Use:
Project Compliance Y☒/N☐

All water on the property is derived from two groundwater wells located on the property. The wells meet and exceed the required water demands for both domestic and agricultural use. At present, there are no metering devices or procedures in place to record water usage associated with the irrigation of cannabis. Metering devices and/or a procedure to monitor water usage shall be used to record all water used for the irrigation of cannabis and domestic use. No matter the source or means of measurement, per the State General Order, all water used for the irrigation of cannabis shall be recorded daily, and recorded water use data shall be kept and maintained for 5 years. Water use may be recorded by a meter(s), calculated irrigation times, pump and fill tank measurements, or any other reasonably accurate means. These records are to be current, maintained, kept on-site, and presentable should they be requested. The monthly water usage shall be recorded for annual reporting purposes.

Water is stored in one 6,500-gallon tank, five 2,500-gallon tanks, and one 20,000-gallon bladder. Fertilizer mixing occurs in three 500-gallon tanks. Tank lids shall be kept closed at all times when access is not needed to prevent access and entrapment of wildlife. Tanks that do not utilize lids shall be retrofitted to be enclosed from wildlife.

Table 5: Estimated Annual Water Use

	Jan	Feb	March (10%)	April (20%)	May (35%)	Jun (80%)	Jul (100%)	Aug (100%)	Sep (70%)	Oct (20%)	Nov	Dec
Agriculture			5669	11,330	19,188	43,859	54,824	54,824	38,376	10,965		
Sq. ft. =	% = percent of peak usage											
24,386												

Total AG Water Use = 233,365

Cannabis cultivators should be advised that transition to the state General Order will require additional infrastructure to use bladders for water storage. Per Cannabis Cultivation Policy: Attachment A, Section 2, No. 88 - 89 for cannabis cultivators, bladders shall be safely contained within a secondary containment system with sufficient capacity to capture 110 percent of a bladders maximum volume in the event of bladder failure and if open to rainfall, and/or (whichever is larger) capable to accommodate precipitation and stormwater inputs from 25 year, 24 hour storm event. Secondary containment is recommended in the form of a dirt berm, containment pit, a combination of both, or impermeable material with skeletal support.

SITE MANAGEMENT PLAN GENERAL GUIDANCE OUTLINE

The Site Management Plan General Guidance Outline describes how the Discharger is implementing the best practical treatment or control (BPTC) measures listed in Attachment A of the Cannabis Cultivation Policy. The assessment of applicable BPTC measures consisted of a field examination on July 21, 2021. Anywhere applicable BPTC measures are not met on the property, descriptions of the assessments and the prescribed treatments are outlined following each associated section below.

Summary of BPTC Measures Compliance
1. Sediment Discharge BPTC Measures Y☐/N☒
2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures Y☒/N☐
3. Petroleum Product BPTC Measures Y☐/N☒
4. Trash/Refuse, and Domestic Wastewater BPTC Measures Y☐/N☒
5. Winterization BPTC Measures Y☐/N☒

1. Sediment Discharge BPTC Measures

1.1. Site Characteristics

1.1.1. Provide a map showing access roads, vehicle parking areas, streams, stream crossings, cultivation site(s), disturbed areas, buildings, and other relevant site features.

See attached Site Map.

1.1.2. Describe the access road conditions including estimating vehicle traffic, road surface (e.g., paved, rocked, or bare ground), and maintenance activities. Describe how stormwater is drained from the access road (e.g., crowned, out slope, armored ditch, culverts, rolling dips, etc.).

The property contains multiple permanent roads, one seasonal road, and one trail. The majority of the road surfaces were in good condition, adequately rocked, and gently outsloped to allow surface water drainage. However, there were areas of the roads that require maintenance and/or installation of surface water drainage features (see Sediment Erosion Prevention section below for details). Vehicle traffic throughout the property is expected to be limited mainly to ATV and truck use, except for construction equipment when needed for maintenance. There is an inside ditch along the permanent road extending from Site 13 to 14 with the potential of becoming hydrologically connected to the Class III watercourse located 50' downslope of Site 13. There are several rolling dips located throughout

the property that are installed correctly and functioning properly, as well as a French drain extending from Site 15 to Site 16 that is also installed correctly and functioning properly. However, there is erosion occurring on the permanent road from Site 13 to 11 that is hydrologically connected to a Class III watercourse 30' downslope, south of Site 11.

1.1.3. Describe any vehicle stream crossing including the type of crossing (e.g., bridge, culvert, low water, etc.).

Three vehicle stream crossings are located on Class III watercourses on a permanent road at Sites 04, 05, and 07. See the attached Mitigation Report and Site Maps for more details.

1.1.3.1. For Region 1 Dischargers, identify, discuss, and locate on the site map any legacy waste discharge issues that exist on the property.

Not applicable. No legacy waste discharge issues were identified during the assessment of the property.

1.2. Sediment Erosion Prevention and Sediment Capture (Moderate risk Tier 1 or Tier 2 Dischargers are required to submit a Site Erosion and Sediment Control Plan. Those Dischargers may refer to that plan rather than repeat it here)

1.2.1. Erosion Prevention BPTC Measures

1.2.1.1. Describe the BPTC measures that have been, or will be implemented to prevent or limit erosion. Provide an implementation schedule for BPTC measures that have not yet been implemented. Identify the erosion prevention BPTC measures on a site map.

Sites 02, 03, 08, 09, 10, 11, 13, 14, 15, 16, 19, 23, 24, 26, and 27 on the Mitigation Report, Treatment Implementation Schedule, and the Site Maps include a site-specific description of the physical BPTC measures being prescribed.

1.2.1.1.1. The description shall address physical BPTC measures, (e.g., placement of straw mulch, plastic covers, slope stabilization, soil binders, culvert outfall armoring, etc.) and biological BPTC measures (vegetation preservation/replacement, hydroseeding, etc.).

See Mitigation Report, Treatment Implementation Schedule, and the Site Maps include a site-specific description of the physical BPTC measure being prescribed.

1.2.2. Sediment Control BPTC Measures

1.2.2.1. Describe the BPTC measures that have been, or will be implemented to capture sediment that has been eroded. Provide an implementation schedule for BPTC measures that have not yet been implemented. Identify the sediment control BPTC measures on a site map.

Not applicable.

1.2.2.1.1. The description shall address physical BPTC measures, (e.g., placement of silt fences, fiber rolls, or settling ponds/areas, etc.) and biological BPTC measures (vegetated outfalls, hydroseeding, etc.).

1.2.3. Maintenance Activities - Erosion Prevention and Sediment Control

1.2.3.1. Describe how erosion prevention and sediment control BPTC measures will be monitored and maintained to protect water quality.

Erosion prevention BPTC measures and all corresponding work shall be inspected before and in conjunction with winter monitoring, as described in the "Monitoring Plan" to ensure proper placement, installation, and function remain intact before and throughout the Winter Period.

1.2.3.2. Describe how any captured sediment will be either stabilized in place, excavated and stabilized on-site, or removed from the site.

Not applicable.

1.2.4. Erosion control BPTC measures: Describe the interim soil stabilization, if applicable and long-term BPTC measures implemented to prevent sediment transport at each identified disturbed area(s) and improperly constructed features.

Not applicable. There was no erosion observed at any of the disturbed areas and there are no improperly constructed features.

2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures

2.1. Provide a summary table that identifies the products used at the site, when they are delivered to the site, how they are stored, and used at the site. If products are not consumed during the growing season, describe how they are removed from the site or stored to prevent discharge over the winter season.

See table under 2.3

2.2. Provide a site map that locates storage locations.

See attached Site Map. Fertilizers and soil amendments are currently stored properly in the structures labeled Storage and Fertilizer Storage.

2.3. Describe how bulk fertilizers and chemical concentrates are stored, mixed, applied, and how empty containers are disposed of.

Fertilizer, Pesticides, and Herbicide Products Potentially Used on Site

Product	Delivery and Storage	On-site usage	How removed or stored
Dyna-Gro – Grow, Dyna-Gro – Bloom, Cal-Mag, Bone Meal, Liquid Fish, Molasis	Brought to the property in spring and during the season as needed in the Storage, Fertilizer Shed, and Barn shown on the Site Map. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 through 115 that is attached.	Solid fertilizers and soil amendments are mixed into the soil before planting. Liquids are mixed into tanks with water, then irrigated to plants as needed during irrigation.	Unused products that remain on the parcel shall be removed or disposed of properly per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 through 115. Cannabis cultivators are required to contain and regularly remove all debris and trash associated with cannabis cultivation activities from the cannabis cultivation site.

3. Petroleum Product BPTC Measures

3.1. Provide a summary table that identifies the products used at the site, when they are delivered to the site, how they are stored, and used at the site. If products are not consumed during the growing season, describe how they are removed from the site or stored to prevent discharge over the winter season.

See comprehensive table under 3.3.

3.2. Provide a site map that locates storage locations.

Petroleum products are stored in/around the Cultivation Areas and structures labeled Barn, Drying House, and a shed located at Site 6. There are two diesel generators without cover located on concrete pads at Sites 01 and 20. There are also two 500-gallon steel tanks containing diesel tanks and one 500-gallon steel tank containing gasoline at Site 21 with containment but no cover. The structure labeled Shed contains small amounts of petroleum products and is located just within the riparian setback area of a Class III watercourse. The Shed at Site 6 provides cover, but all petroleum products must be properly secured in secondary containment if they are to remain in the Shed per Cannabis Cultivation Policy: Attachment A, Section 2, Term 105. See attached Site Maps.

3.3. Describe how fuels, lubricants, and other petroleum products are stored, mixed, applied, and empty containers are disposed of.

Petroleum Products

Products used on site	When they are delivered to the site	How they are stored and used	How removed or stored
Gasoline	Brought to the site when needed throughout the year.	Fuel is transferred from in-bed auxiliary fuel tanks installed onto trucks/fuel delivery trucks, standard 5-gallon fuel canisters, and 500-gallon steel tanks. Used to fuel equipment.	Stored in 5-gallon canisters and 500-gallon steel tanks around the cultivation sites, and the equipment's fuel tanks until it is used or within storage structures.
Diesel	Brought to the site when needed throughout the year.	Stored in a 500-gallon steel fuel tanks, within the equipment's fuel tanks, and standard fuel canisters with secondary containment, but lacking cover from precipitation.	Stored in steel tanks, canisters, and the equipment's fuel tanks until it is used.
Propane	Brought to the site when needed throughout the year.	Stored in a fixed location propane tank or portable propane tanks. Used to fuel generators.	Stored in the fixed location propane tank or portable tanks until used.
Motor oil	Brought to the site when needed throughout the year.	Stored alongside equipment or within storage sheds. Used to lubricate internal combustion engines.	After oil changes, the used motor oil is stored in either the container it came in or in sealed 5-gallon buckets for later disposal at an appropriate waste disposal facility.

3.4. Describe procedures for spill prevention and cleanup.

Any/all fuel canisters, motor oil containers, and generators, large or small, shall be stored in secondary containment (e.g. drip pans, plastic totes, or sealed metal boxes) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. Adequate quantities of absorbent materials are stored at all locations where these types of materials are used, stored, or mixed. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied as well as any contaminated soil will be removed and disposed of appropriately for the spilled material.

4. Trash/Refuse, and Domestic Wastewater BPTC Measures

4.1. Describe the types of trash/refuse that will be generated at the site. Describe how the material is contained and properly disposed of.

Domestic and commercial cannabis refuse will be generated at the site. The refuse is stored in trash bags at the Cultivation Areas and storage structures on the Site Maps, except for trash piles located at Sites 12, 17, and 18.

4.1.1. Provide a site map that locates the trash/refuse storage locations.

Trash/refuse is stored in the structures labeled Storage and Barn, as well as around the Cultivation Areas. However, there are cultivation-related waste piles improperly stored at Sites 12, 17, and 18. The refuse pile at Site 12 is within the riparian zone and must be immediately removed to prevent the movement of cultivation related waste into a Class III watercourse. See attached Site Maps.

4.2. Describe the number of employees, visitors, or residents at the site.

Four regular employees are at the site during the cultivation season. Additional employees are brought onto the property for short periods to complete projects requiring additional employees. Visitors are occasionally on-site, including consultants and regulatory agencies. There is also a full-time residence on the property as well labeled with a house symbol on the attached Site Maps.

4.2.1. Describe the types of domestic wastewater generated at the site (e.g., household-generated wastewater or chemical toilet).

Domestic sewage and wastewater (greywater) are generated on-site.

4.2.2. Describe how the domestic wastewater is disposed of.

4.2.2.1. Permitted onsite wastewater treatment system (e.g., septic tank and leach lines).

Domestic sewage is disposed of via a septic system located within the residence on the property.

4.2.2.2. Chemical toilets or holding tanks. If so, provide the name of the servicing company and the frequency of service.

Not applicable.

4.2.2.3. Outhouse, pit privy, or similar. Use of this alternative requires approval from the Regional Water Board Executive Officer; include the approval from the Executive Officer and any conditions imposed for use of this alternative.

Not applicable.

4.2.2.3.1. Provide a site map that locates any domestic wastewater treatment, storage, or disposal area.

See attached Site Map for the location of the house containing the septic system.

5. Winterization BPTC Measures

5.1. Describe activities that will be performed to winterize the site and prevent discharges of waste. The description should address all the issues listed above.

See Mitigation Report and Annual Winterization Measures for prescribed general winterization measures that will be performed before each Winter Period, and site-specific interim measures that will be performed before the Winter Period until permanent, prescribed treatments can be executed.

5.2. Describe maintenance of all drainage or sediment capture features (e.g., drainage culverts, drainage trenches, settling ponds, etc.) to remove debris, soil blockages, and ensure adequate capacity exists.

Existing drainage structures will be maintained or repaired as feasible and necessary with hand tools during annual winterization and winter monitoring. Prescribed repair and maintenance will be executed following the Mitigation Report and Treatment Implementation Schedules.

5.3. Describe any revegetation activities that will occur either at the beginning or end of the precipitation season.

See attached Mitigation Report and Treatment Implementation Schedule above.

5.4. If any BPTC measure cannot be completed before the onset of the Winter Period, contact the Regional Water Board to establish a compliance schedule.

See the attached Mitigation Report and Treatment Implementation Schedule for site descriptions, treatments, and the implementation schedule.

5.5. For Region 1 Dischargers, describe any activities that will be performed to address legacy waste discharge issues. Region 6 Dischargers should consult with Regional Water Board staff to confirm if any other activities in addition to BPTCs are necessary to address legacy waste discharge issues.

See attached Mitigation Report and Treatment Implementation Schedule above.

Annual Winterization Measures

Winterization measures consist of general cleanup and winter-preparation activities that both prepare for and utilize, anticipated, local winter weather. In project areas that may become inaccessible during periods or the entirety of the winter, additional winterization procedures and precautions may be required due to the potential absence of winter monitoring.

- Any exposed soils resulting from winterization activities shall be seeded and straw mulched.
- Any/all areas of exposed soils in and around cultivation areas are seeded and either straw mulched with weed-free straw or wood chips.
- All existing culvert inlets, interiors, and outlets shall be cleared of any existing or potential obstructions to include; debris upstream of the culvert such as sediment, loose, moveable rocks, and small woody debris.
- Damage or wear resulting from vehicular use to road surfaces (such as rutting or wheel tracks) and/or road surfacing (such as rock) that would impair road surface drainage or drainage features (such as outsloping, waterbars, rolling dips, etc.) shall be repaired before the Winter Period.
- All existing surface drainage features and sediment capture features shall be maintained if needed to ensure continued function through the Winter Period.
- All fertilizers and petroleum products will be stored in an area located outside of riparian setbacks, completely sealed, placed in secondary containment (liquids), and stored in a manner that prevents contact with precipitation and surface runoff.
- Chemical toilets will be removed from the property until need resumes the following cultivation season, or at a minimum serviced and left unused during periods when not in use.
- Water storage tank lids shall be appropriately closed to prevent the access of wildlife.
- All refuse/trash shall be removed and disposed of appropriately.
- All inorganic material capable of being transported by wind or rain shall be secured and stored appropriately.

Monitoring Plan for Tier 2 Low-Risk

Cannabis cultivators shall regularly inspect and maintain the condition of access roads, access road drainage features, and watercourse crossings. At a minimum, cannabis cultivators shall perform inspections before the onset of fall and winter precipitation and following storm events that produce at least 0.5 in/day or 1.0 inch/7 days of precipitation. See Required Monitoring tables below for site-specific monitoring and reporting requirements. Cannabis cultivators are required to perform all of the following maintenance:

- Remove any wood debris that may restrict flow in a culvert.
- Remove sediment that impacts access road or drainage feature performance.
- Place any removed sediment in a location outside the riparian setbacks and stabilize the sediment.
- Maintain records of the access road and drainage feature maintenance for annual reporting.

Cannabis cultivators that are operating in areas that are, or may become, inaccessible during winter months due to extreme weather such as snow, road closures, seasonal access roads to the property, or any other such conditions shall make additional efforts to enhance winterization measures in the absence of monitoring during storm events.

Monitoring Requirements

(Tier 2, Low Risk)

Monitoring Requirement	Description
Winterization Measures Implemented	Report winterization procedures implemented, any outstanding measures, and the schedule for completion.
Tier Status Confirmation	Report any changes in the tier status.
Third-Party Identification	Report any change in third-party status as appropriate.

Annual Reporting

Annual Reports shall be submitted to the North Coast Regional Water Quality Control Board by March 1st following the year being monitored. The first Annual Report for this enrollment shall be submitted by March 1st, 2022, and a report on monitoring done during the 2021 calendar year. Annual reporting is required each subsequent year of enrollment.

Site Management Plan

Project Site Map

Order WQ 2019-0001-DWQ [WDID - 1_12CC418891]

Sections 30,31, T2S, R2E, HB&M, Humboldt County, Bull Creek and Weott 7.5' USGS Quadrangle

40' Contour Intervals

TRC-523

Map Legend

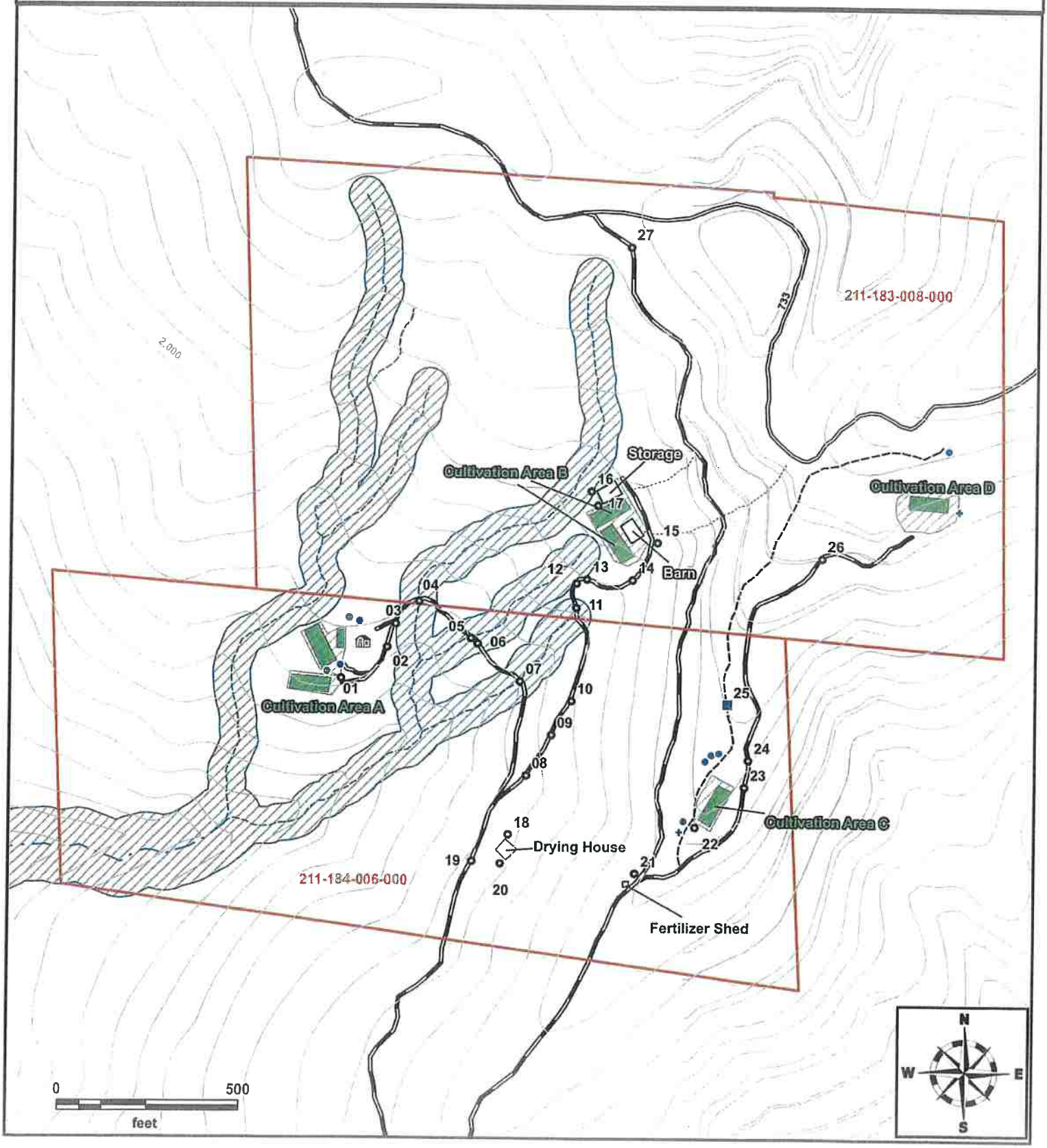
- Property Boundary
- Disturbed Area
- Cultivation Area
- Structure
- Watercourse Setback

Roads
- Permanent
- Seasonal
- Trail

Watercourses
- Class I
- Class II
- Class III
- Undefined

- Site
- Well
- Tank
- Bladder
- House

Timberland Resource Consultants



Site Management Plan

Project Site Map

Order WQ 2019-0001-DWQ [WDID - 1_12CC418891]

Sections 30,31, T2S, R2E, HB&M, Humboldt County, Bull Creek and Weott 7.5' USGS Quadrangle

NAIP DOQ 2020

TRC-523

Property Boundary
Disturbed Area
Cultivation Area
Structure
Watercourse Setback

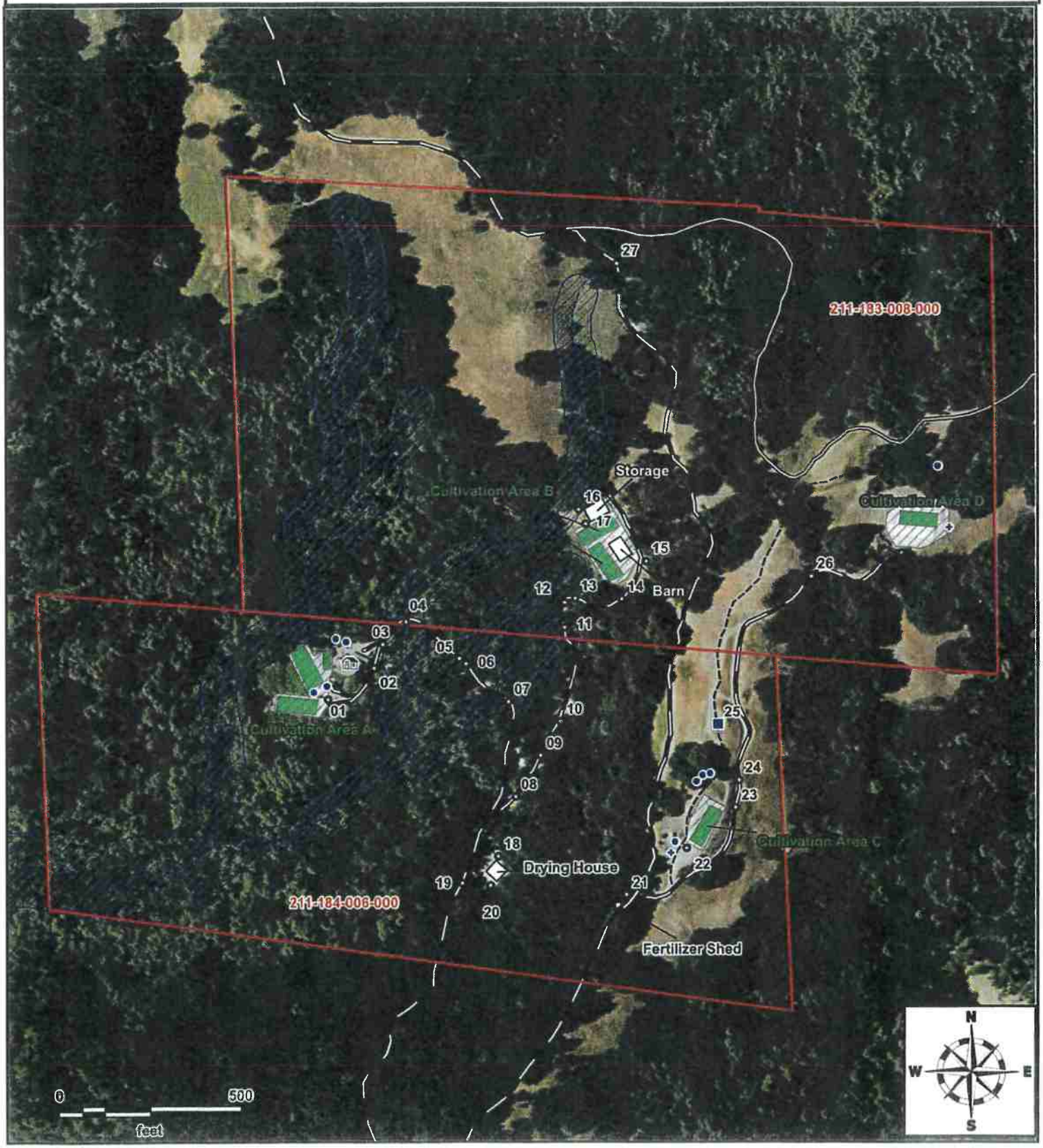
Map Legend

Roads
Permanent
Seasonal
Trail

Watercourses
Class I
Class II
Class III
Undefined

Site
Well
Tank
Bladder
House

Timberland Resource Consultants



Timberland Resource Consultants

Treatment Implementation Schedule

Unique Point	Proposed Work Completion Date
Immediately	
Site 12	Immediately
Site 17	Immediately
Site 18	Immediately
Liquid Petroleum Products	Immediately
Generators and Gas Powered Pumps	Immediately
Prior to 10/15/21	
Site 01	Prior to 10/15/21
Site 06	Prior to 10/15/21
Site 20	Prior to 10/15/21
Site 21	Prior to 10/15/21
Site 22	Prior to 10/15/21
Water Storage and Use	Prior to 10/15/21
Prior to 10/15/22	
Site 02	Prior to 10/15/22
Site 03	Prior to 10/15/22
Site 04	Prior to 10/15/22 pending the approval of any required permits
Site 05	Prior to 10/15/22 pending the approval of any required permits
Site 07	Prior to 10/15/22 pending the approval of any required permits
Site 11	Prior to 10/15/22
Site 13	Prior to 10/15/22
Site 14	Prior to 10/15/22
Site 23	Prior to 10/15/22
Site 25	Prior to 10/15/22
Annually Prior to 10/15	
Site 08	Annually prior to 10/15
Site 09	Annually prior to 10/15
Site 10	Annually prior to 10/15
Site 15	Annually prior to 10/15
Site 16	Annually prior to 10/15
Site 19	Annually prior to 10/15
Site 24	Annually prior to 10/15
Site 26	Annually prior to 10/15
Site 27	Annually prior to 10/15

Timberland Resource Consultants

SMP - Mitigation Report

WDID# - 1_12CC418891

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 01	-124.003436 40.254575	Permanent	X	-	-	Prior to 10/15/21	
Current Condition: A diesel and gasoline generator located next to Cultivation Area A does not have proper secondary cover.						Prescribed Action: Provide proper covering for generator and store away in the winter. See attached BMPs: Generator, Fuel, and Oil Management for further details. All petroleum products are required to be used and stored per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110, and 116 - 118 attached.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 02	-124.002989 40.254733	Permanent	X	-	-	Prior to 10/15/22	
Current Condition: Permanent road leading down to Cultivation Area A contains an erosional gulley that extends up to the parking lot of the residence. The road is currently outsloped with dirt surfaces.						Prescribed Action: Regrade the road with gentle outsloping from Site 01 to Site 03 then install a waterbar per the specifications outlined in the attached BMPs: Waterbar Construction, General Operations BMPs, and General Erosion Control specifications. Maintain as needed per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 03	-124.002912 40.254908	Permanent	X	-	-	Prior to 10/15/22	
Current Condition: Permanent road leading down to Cultivation Area A contains an erosional gulley that extends up to the parking lot of the residence. The road is currently outsloped with dirt surfaces.						Prescribed Action: Regrade the road with gentle outsloping from Site 01 to Site 03 then install a waterbar per the specifications outlined in the attached BMPs: Waterbar Construction, General Operations BMPs, and General Erosion Control specifications. Maintain as needed per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 04	-124.002689 40.255078	Permanent	X	-	X	Prior to 10/15/22 pending the approval of any required permits	
Current Condition: Existing 18-inch diameter corrugated metal culvert on a Class III watercourse. Culvert is undersized, shot-gunned, and partially plugged with forest litter at the inlet.						Prescribed Action: Clean-out inlet then upgrade culvert to minimum 36-inch diameter culvert that is installed to grade, aligned with the natural stream channel, and long enough that it extends lengthwise completely beyond the toe of fill. The crossing upgrade will require the excavation and temporary displacement of approximately 44 cubic yards of fill (30 feet long by 10 feet deep by 4 feet wide) and 120 ft2 of overall disturbance (30 feet length and 4 feet width) per the LSAA #1600-2019-0447-R1.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 05	-124.002172 40.25481	Permanent	X	-	X	Prior to 10/15/22 pending the approval of any required permits	

Current Condition:	Prescribed Action:
Existing 24-inch diameter corrugated plastic culvert on a Class III watercourse. The culvert is undersized, too short, and shot-gunned.	Upgraded to a 30-inch diameter culvert to grade, aligned with the natural stream channel, and long enough that it extends lengthwise completely beyond the toe of fill. The crossing upgrade will require the excavation and temporary displacement of approximately 41 cubic yards of fill (35 feet long by 8 feet deep by 4 feet wide) and 140 ft2 of overall disturbance (30 feet length and 4 feet wide) per the LSAA #1600-2019-0447-R1.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 06	-124.002108 40.254772	Permanent	X	-	-	Prior to 10/15/21	

Current Condition:	Prescribed Action:
Shed used for storage of petroleum products is located within the riparian setback of a Class III watercourse. The shed has wooden floors and adequate cover, but petroleum products are not in proper secondary containment.	Put all petroleum products in proper secondary containment. See attached BMPs: Generator, Fuel, and Oil Management for further details. All petroleum products are required to be used and stored per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110, and 116 - 118 attached.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 07	-124.001691 40.254495	Permanent	X	-	X	Prior to 10/15/22 pending the approval of any required permits	

Current Condition:	Prescribed Action:
Existing 24-inch diameter corrugated plastic culvert on a Class III watercourse. The culvert is adequately sized, slightly shot-gunned, and the inlet is partially buried.	Replace 24-inch diameter corrugated plastic culvert with 24-inch diameter corrugated metal culvert that is set to grade and aligned correctly. Rock armor the inlet and outlet with appropriately sized rock per the LSAA #1600-2019-0447-R1.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 08	-124.001611 40.253792	Permanent	-	X	-	Annually prior to 10/15	

Current Condition:	Prescribed Action:
Existing rolling dip is installed correctly and functioning adequately.	Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 09	-124.001374 40.254099	Permanent	-	X	-	Annually prior to 10/15	

Current Condition:	Prescribed Action:
Existing rolling dip is installed correctly and functioning adequately.	Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 10	-124.001184 40.254354	Permanent	-	X	-	Annually prior to 10/15	

Current Condition:	Prescribed Action:
Existing rolling dip is installed correctly and functioning adequately.	Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 11	-124.001157 40.25505	Permanent	X	-	-	Prior to 10/15/22	
Current Condition: Erosional gulley exists on a permanent road downhill of Cultivation Area B. The section of road with erosion occurring is located within riparian setbacks of two separate Class III watercourses and has the potential of becoming hydrologically connected to both watercourses.						Prescribed Action: Regrade the road from Site 11 to Site 13 with gentle outsloping then install a rolling dip along with a 8' x 8' leadout that is rock armored with adequate sized rock. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 12	-124.00116 40.255235	Permanent	X	-	-	Immediately	
Current Condition: A pile of cultivation related debris is within the riparian setback of a Class III watercourse.						Prescribed Action: Cultivation-related wastes shall be removed and stored in a manner where they cannot be transferred into a watercourse. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 119 - 125 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 13	-124.00106 40.255266	Permanent	X	X	-	Prior to 10/15/22	
Current Condition: Erosion at the outfall of a roadside ditch that is just outside the riparian setback of a Class III watercourse that extends up to Site 14.						Prescribed Action: Rock armor the entire roadside ditch with adequately sized rock as well as the outfall of the roadside ditch per the specifications outlined in the attached BMPs: General Operations BMPs and General Erosion Control specifications. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 14	-124.000612 40.255264	Permanent	X	X	-	Prior to 10/15/22	
Current Condition: Start of a roadside ditch that leads down to Site 13 is hydrologically connected to a Class III watercourse.						Prescribed Action: See Site 13	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 15	-124.000378 40.255548	Permanent	-	X	-	Annually prior to 10/15	
Current Condition: French drain extending to Site 16 is installed correctly and functioning properly.						Prescribed Action: Monitor and maintain as needed.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 16	-124.001033 40.255925	Permanent	-	X	-	Annually prior to 10/15	
Current Condition: See Site 15						Prescribed Action: See Site 15	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 17	-124.000966 40.25582	-	X	-	-	Immediately	
Current Condition: A pile of cultivation related debris is 25' from the riparian setback of a Class III watercourse.						Prescribed Action: Cultivation-related wastes shall be removed and stored in a manner where they cannot be transferred into a watercourse. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 119 - 125 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 18	-124.001771 40.25335	Permanent	X	-	-	Immediately	
Current Condition: A pile of cultivation related debris, and petroleum canisters without proper containment are located next to a drying house.						Prescribed Action: Cultivation-related wastes shall be removed of properly, and petroleum products will be placed in proper secondary containment. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Terms 103 through 110 and 116 through 125 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 19	-124.002115 40.253147	Permanent	-	X	-	Annually prior to 10/15	
Current Condition: Existing rolling dip is installed correctly and functioning adequately.						Prescribed Action: Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 20	-124.001844 40.253133	Permanent	X	-	-	Prior to 10/15/21	
Current Condition: A diesel generator located next to a drying house does not have proper secondary containment or cover.						Prescribed Action: See attached BMPs: Generator, Fuel, and Oil Management for further details. All petroleum products are required to be used and stored per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110, and 116 - 118 attached.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 21	-124.000514 40.253043	Permanent	X	-	-	Prior to 10/15/21	
Current Condition: Two 500-gallon diesel tanks and one 500-gallon gasoline tank that have proper secondary containment but no secondary cover.						Prescribed Action: See attached BMPs: Generator, Fuel, and Oil Management for further details. All petroleum products are required to be used and stored per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110, and 116 - 118 attached.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 22	-123.999952 40.253427	Permanent	X	-	-	Prior to 10/15/21	
Current Condition: Existing soil pile is uncovered. The soil shows no signs of migration away from the pile is located outside of riparian areas.						Prescribed Action: The soil pile shall be properly cover prior to a rain event and throughout winter per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 57 - 62 attached.	

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 23	-123.999479 40.253731	Permanent	X	X	-	Prior to 10/15/22	

Current Condition: Erosion gully starts at the roads edge and extends east downslope 200'.	Prescribed Action: Rock armor the head of the gully at the roads edge with adequate sized rock and maintain the rolling dip up grade at Site 24.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 24	-123.999448 40.253931	Permanent	-	X	-	Annually prior to 10/15	

Current Condition: A series of existing rolling dips are installed correctly and functioning adequately.	Prescribed Action: Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 25	-123.999656 40.254345	-	X	X	-	Prior to 10/15/22	

Current Condition: A large active bladder is not properly stored in secondary containment.	Prescribed Action: Provide proper secondary containment for the existing bladder per Cannabis Cultivation Policy: Attachment A, Section 2, No. 87 - 89 for cannabis cultivators.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 26	-123.998768 40.255448	Permanent	-	X	-	Annually prior to 10/15	

Current Condition: Existing series of rolling dips are installed correctly and functioning adequately.	Prescribed Action: Monitor and maintain as needed. See "Rolling Dip Design and Placement" in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 27	-124.000694 40.257758	Permanent	-	X	-	Annually prior to 10/15	

Current Condition: Road is rocked/outsloped with minor build up of road material along the outboard edge.	Prescribed Action: Continue to grade the road as necessary to keep the functioning outsloped drainage pattern. See General Erosion Control in the attached BMP's. See Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 1 - 29 that is attached for specifications.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Well	-124.000105 40.253389	-	-	-	-	-	

Current Condition:	Prescribed Action: None

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Well	-123.997439 40.255822	-	-	-	-	-	

Current Condition:	Prescribed Action: None

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Water Storage and Use		-	X	-	-	Prior to 10/15/21	

Current Condition: At present there are no devices or procedures in place to record water usage associated with the irrigation of cannabis and domestic use.	Prescribed Action: Water metering devices, or procedures for the wells, shall be installed to record all water diverted, pumped, and used water for the irrigation of cannabis and domestic use. Water meter(s) and water supply infrastructure shall be designed/installed in a manner such that water usage for the irrigation of cannabis can be recorded separately from water used for domestic use. Monthly water usage shall be recorded for annual reporting purposes. Water conservation measures such as drip line irrigation, morning or evening watering, and mulch or cover cropping of cultivated top soils shall also be implemented. All terms must be met per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 65 - 98 attached.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Liquid Petroleum Products	0 0	-	X	-	-	Immediately	

Current Condition: There are currently petroleum products on the property that are stored incorrectly and without proper containment.	Prescribed Action: Any/all liquid petroleum products and their containers shall be stored in secondary containment (e.g. plastic totes or sealed metal boxes) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. See attached BMPs: Generator, Fuel, and Oil Management for further details. All terms must be met per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110 and 116 - 118 attached.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Generators and Gas Powered Pumps		-	X	-	-	Immediately	

Current Condition: There are currently generators and gas powered pumps on the property that are stored incorrectly and without proper containment.	Prescribed Action: Any/all liquid petroleum powered generators or pumps (large or small) shall be stored in secondary containment (e.g. plastic totes, sealed metal boxes, drip pans, prefabricated portable containment berms or fabricated and lined containment basins) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. See attached BMPs: Generator, Fuel, and Oil Management for further details. All terms must be met per Cannabis Cultivation Policy, Att. A, Sec. 2, - Term 103 - 110 and 116 - 118 attached.

Photographs

Photo Dates: July 21st, 2021
See attached Mitigation Report for site details.

Photo looking at gasoline and diesel generators without proper containment at Site 01.

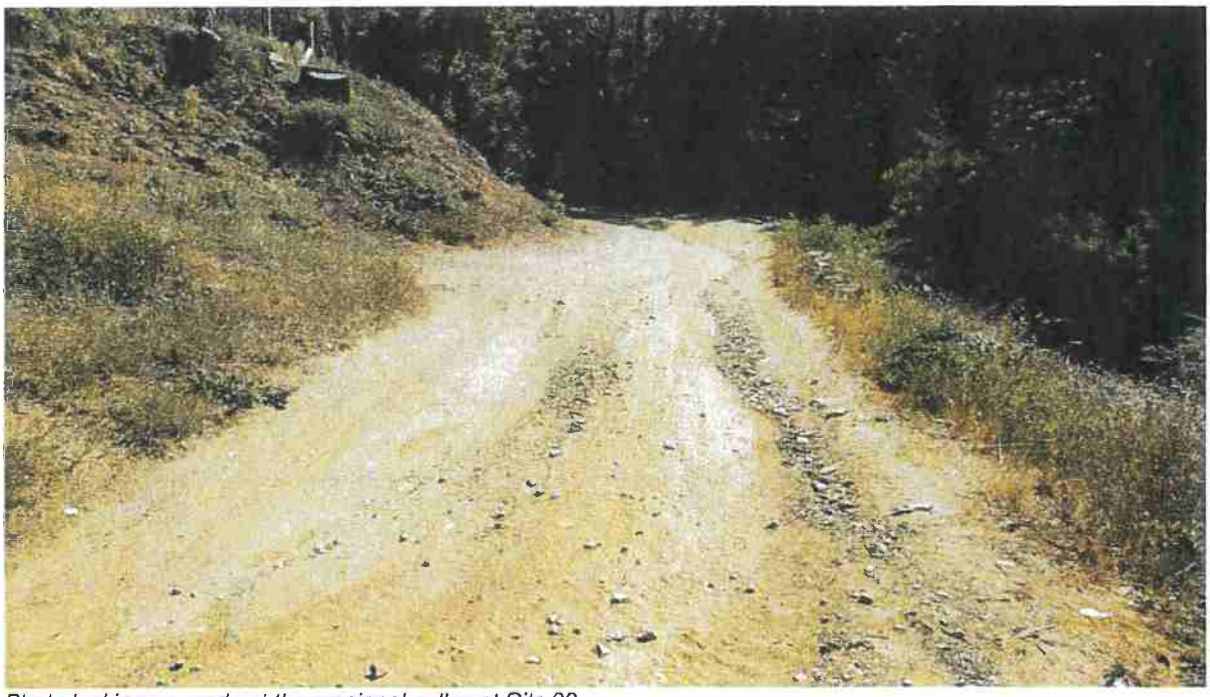


Photo looking up grade at the erosional gulley at Site 02.

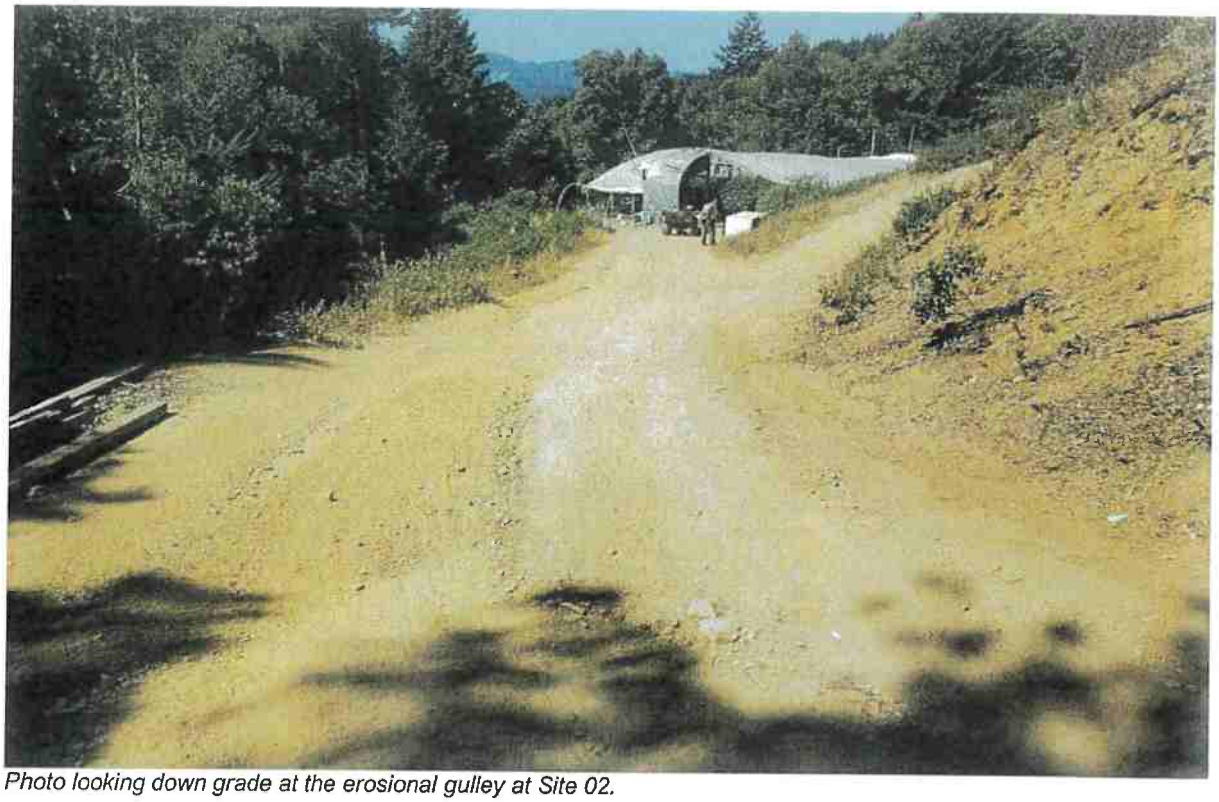


Photo looking down grade at the erosional gulley at Site 02.

Photo looking up grade at the erosional gulley at Site 03.

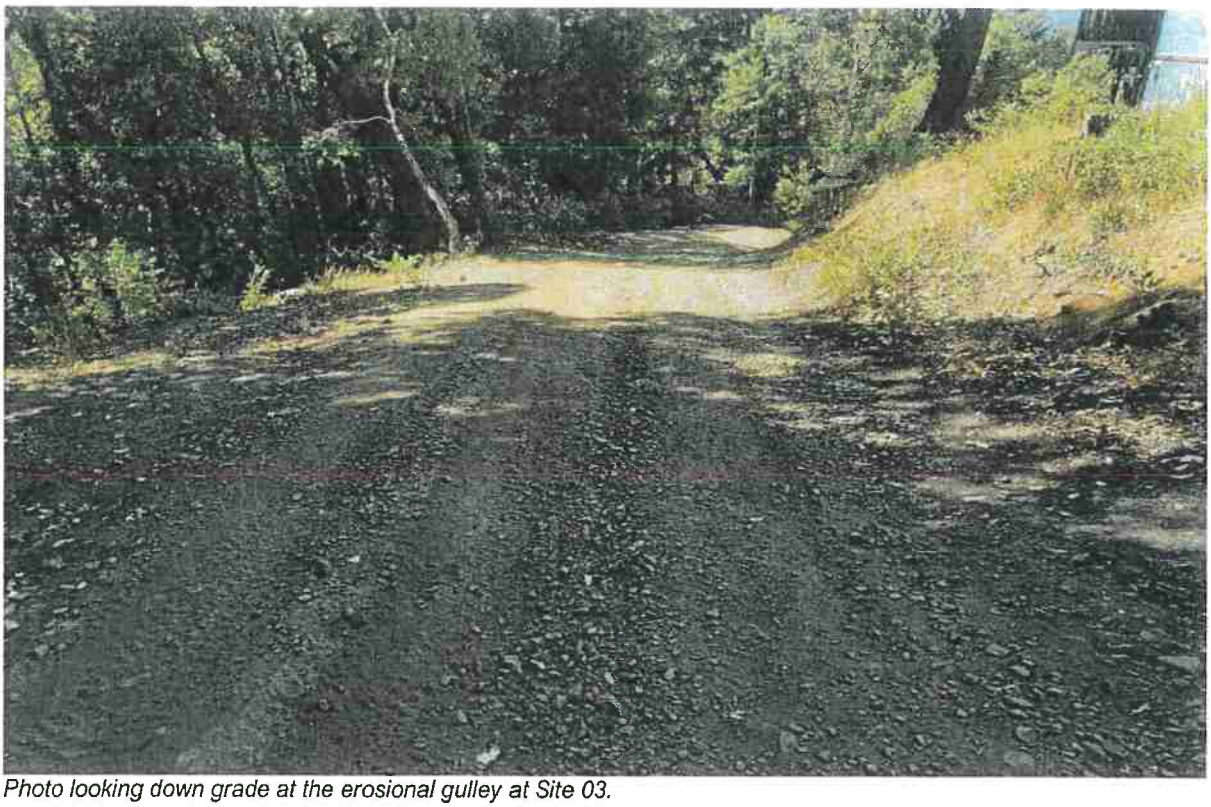


Photo looking down grade at the erosional gulley at Site 03.

Photo looking at the inlet of the culvert at Site 04.

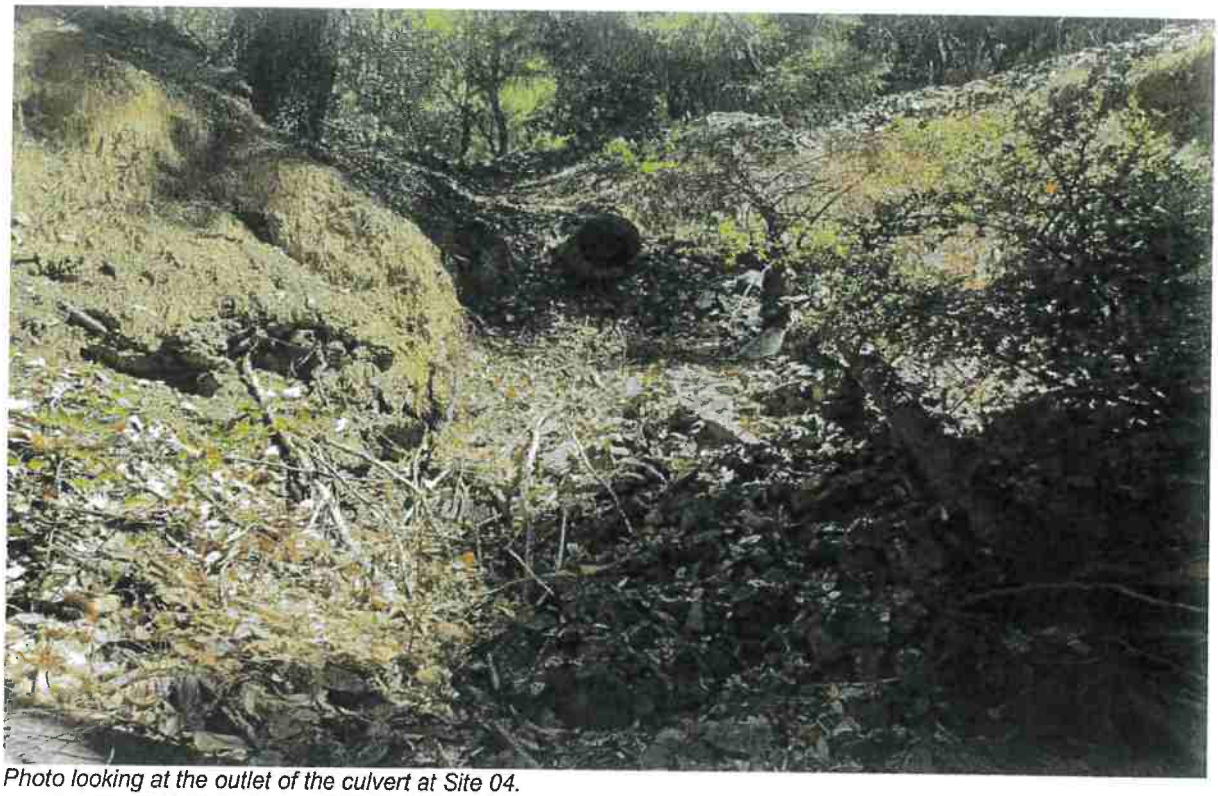


Photo looking at the outlet of the culvert at Site 04.

Photo looking at the inlet of the culvert at Site 05.

Photo looking at the outlet of the culvert at Site 05.

Photo looking at the outlet of the culvert at Site 05.

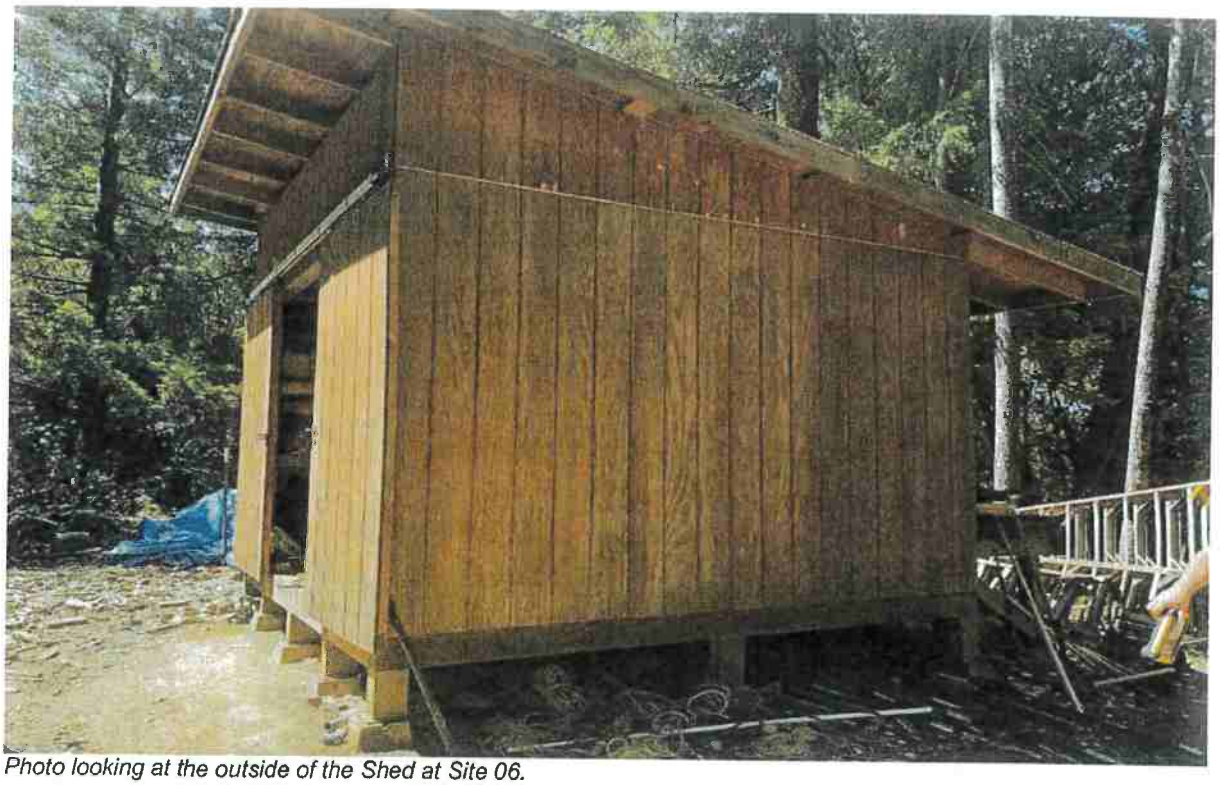


Photo looking at the outside of the Shed at Site 06.

Photo looking inside the Shed located at Site 06.

Photo looking at the inlet of the culvert at Site 07.

Photo looking at the outlet of the culvert at Site 07.

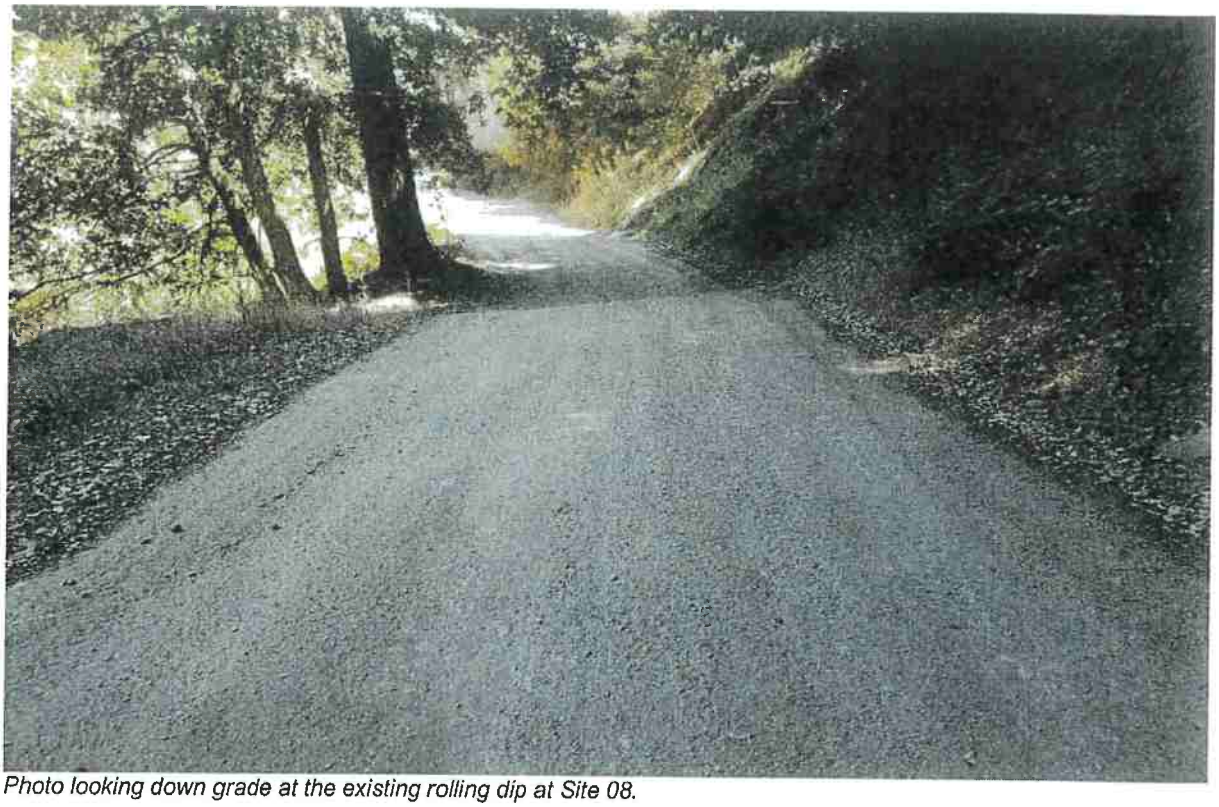


Photo looking down grade at the existing rolling dip at Site 08.

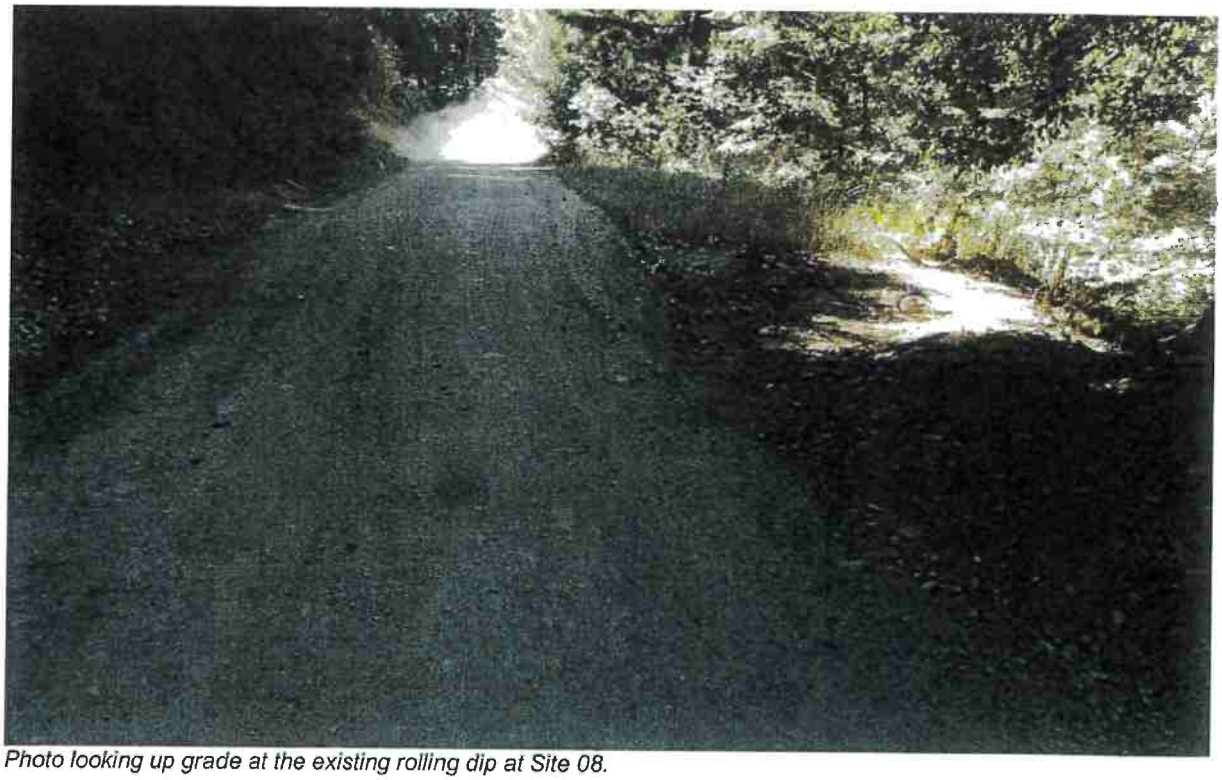


Photo looking up grade at the existing rolling dip at Site 08.

Photo looking up grade at the erosion at Site 11.

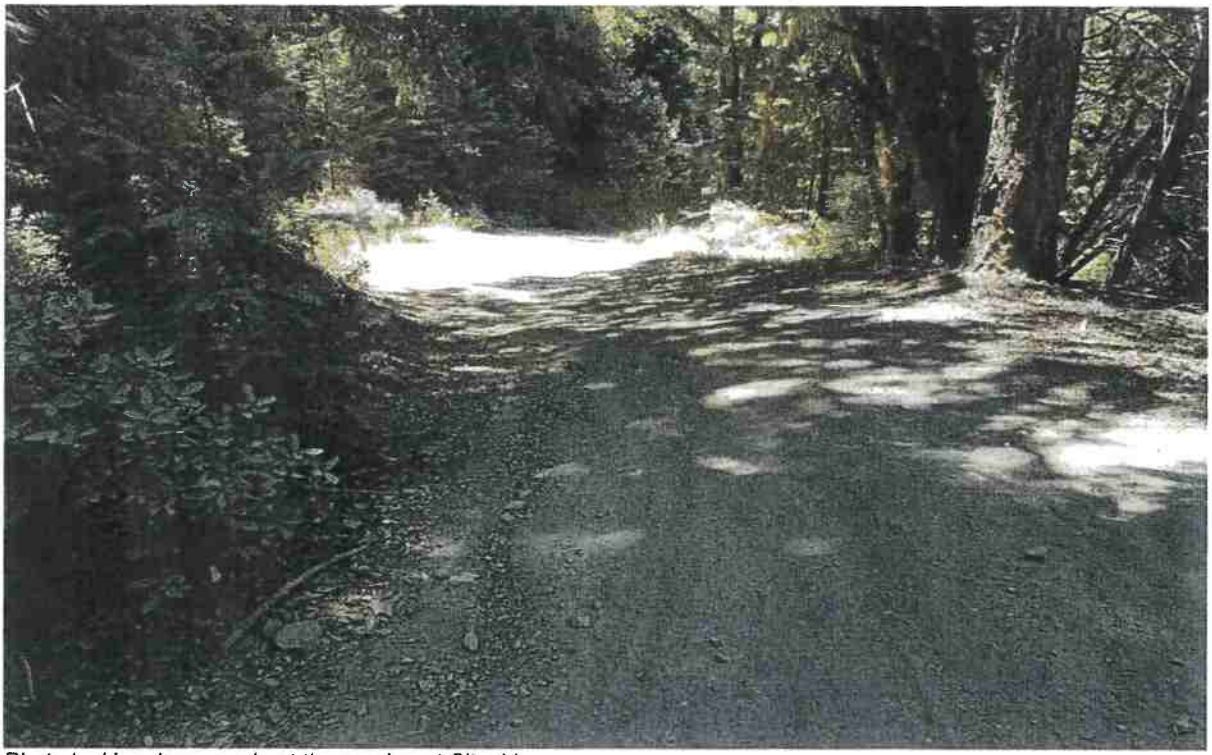


Photo looking down grade at the erosion at Site 11.

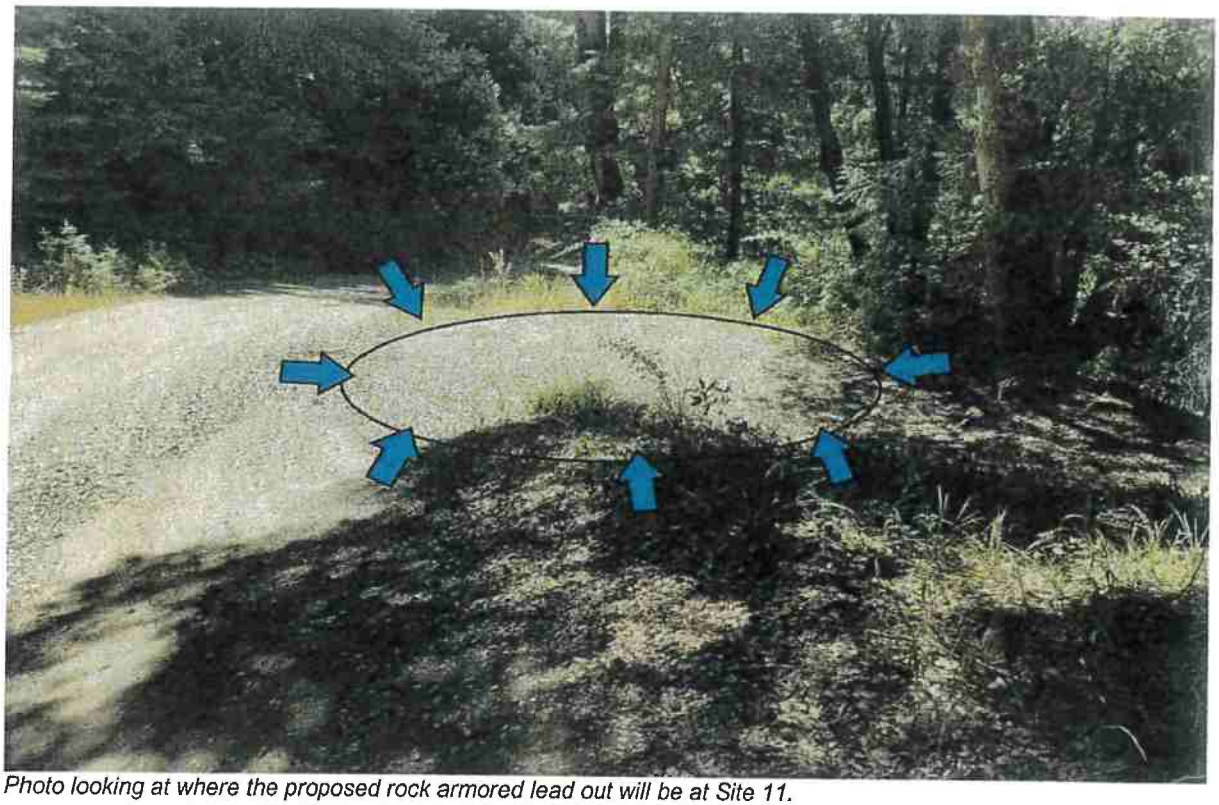


Photo looking at where the proposed rock armored lead out will be at Site 11.

Photo looking at the trash pile within the riparian setback of a Class III watercourse at Site 12.

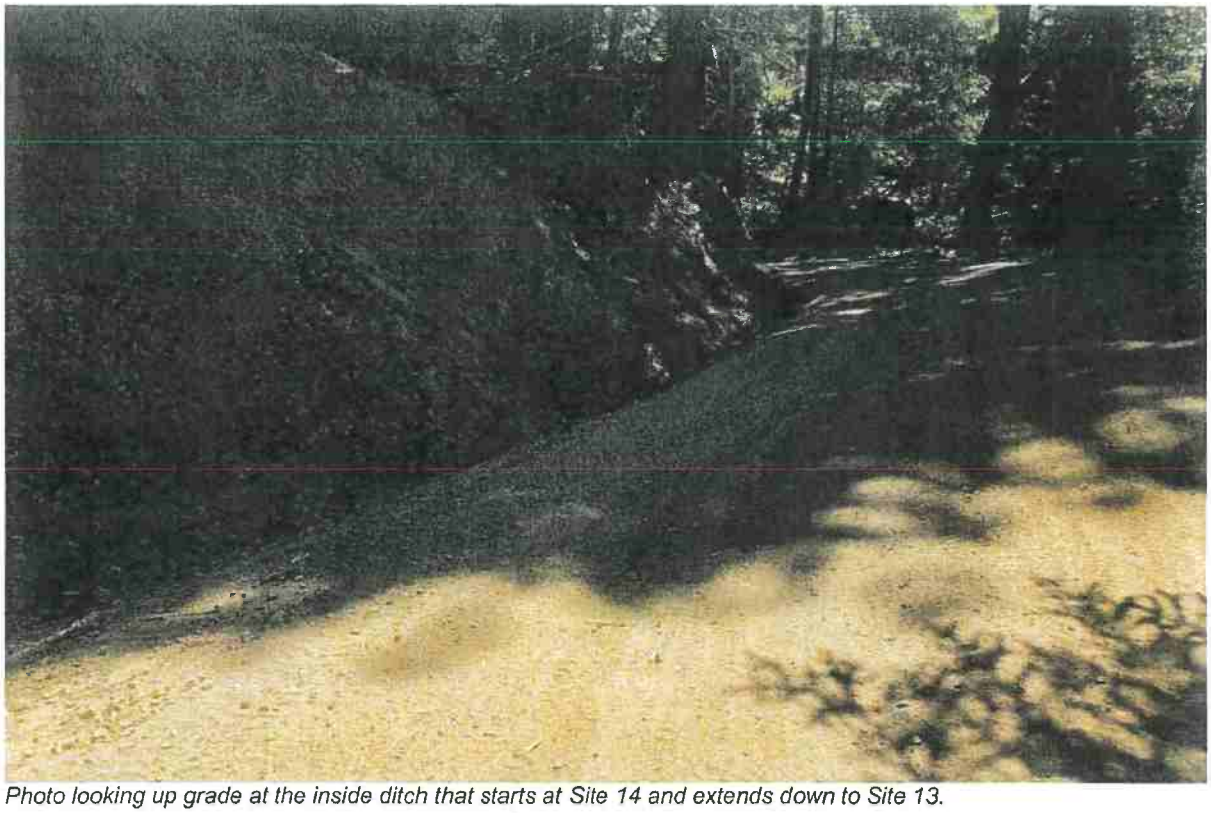


Photo looking up grade at the inside ditch that starts at Site 14 and extends down to Site 13.

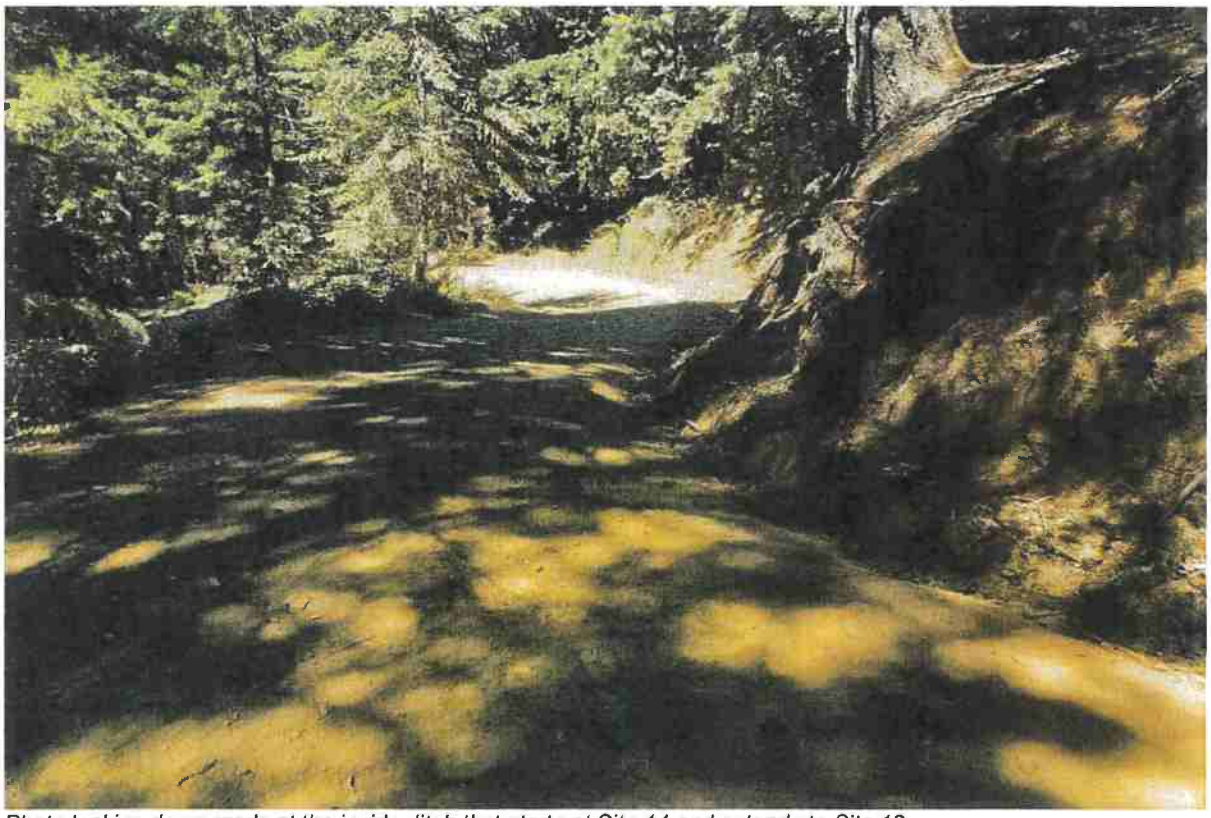


Photo looking down grade at the inside ditch that starts at Site 14 and extends to Site 13.

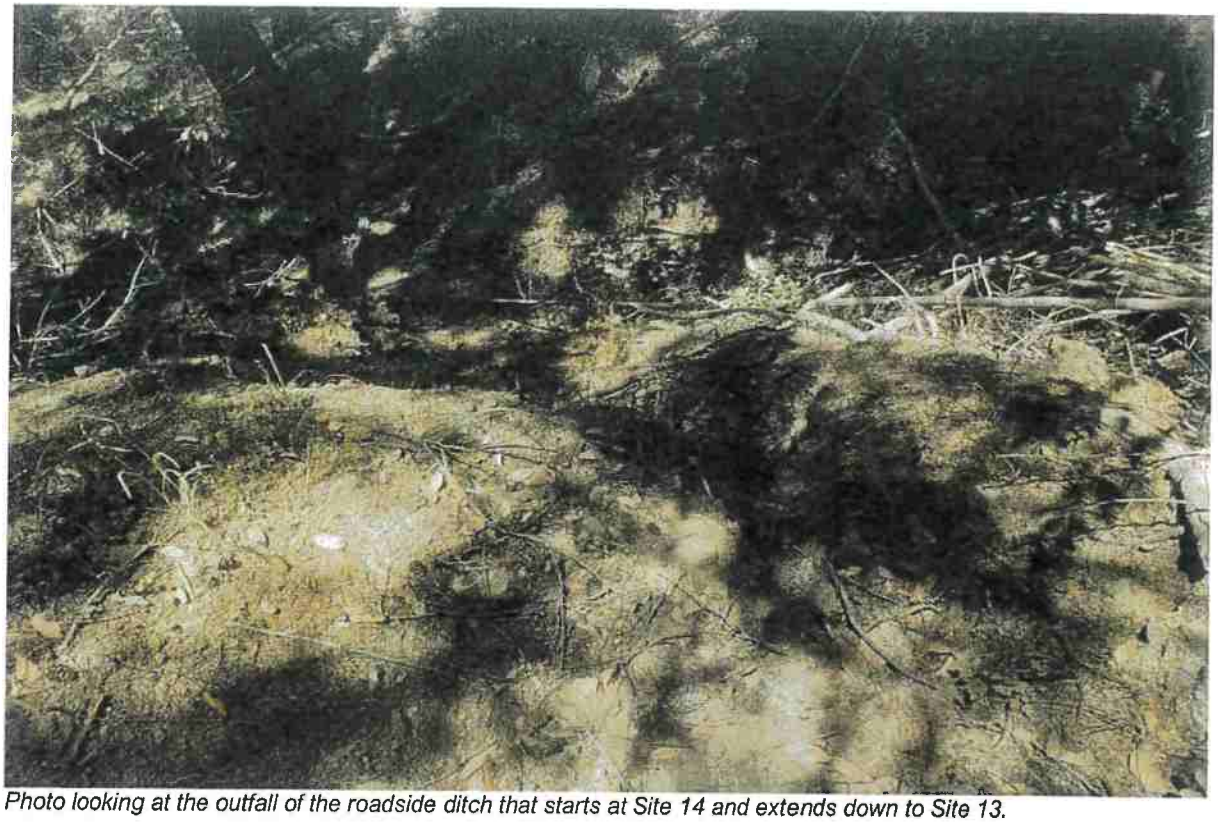


Photo looking at the outfall of the roadside ditch that starts at Site 14 and extends down to Site 13.

Photo looking at the outfall of the roadside ditch that starts at Site 14 and extends down to Site 13.

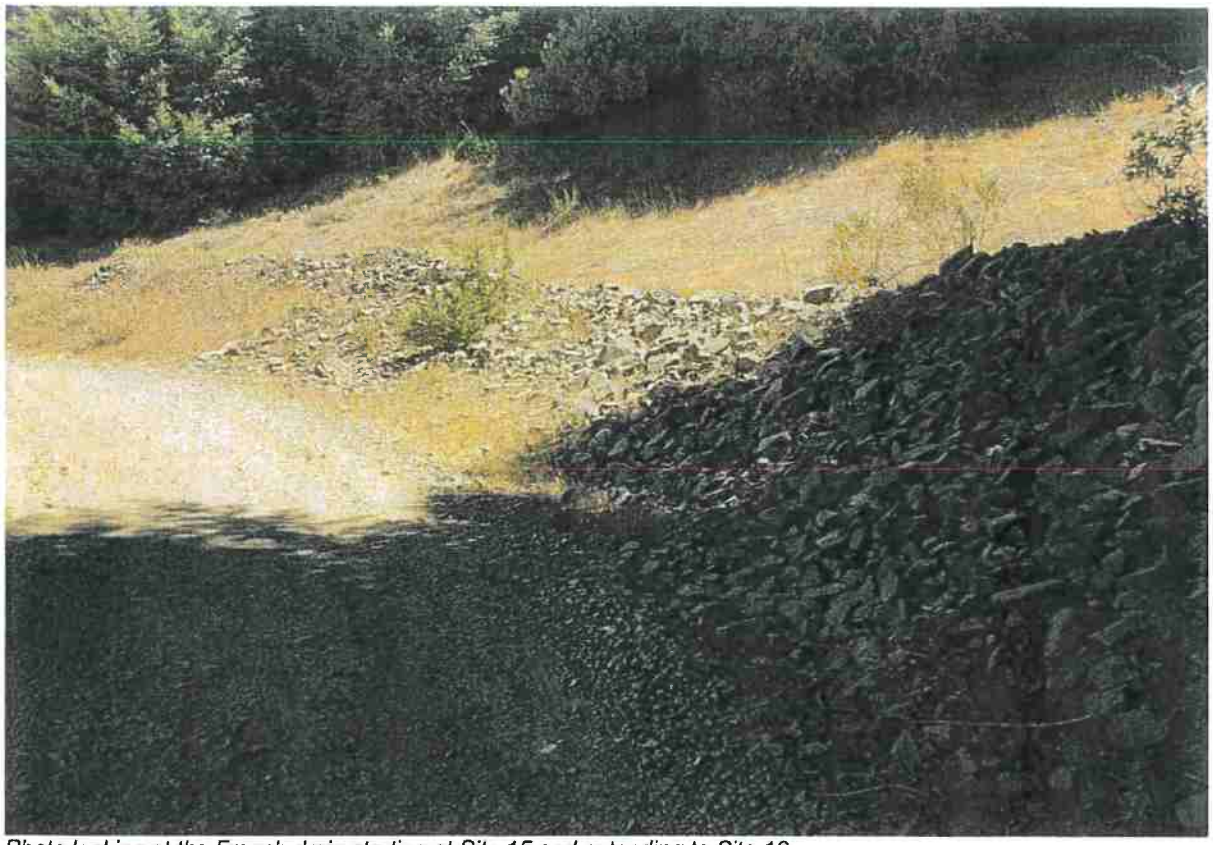


Photo looking at the French drain starting at Site 15 and extending to Site 16.

Photo looking at the outlet of the French drain at Site 16.

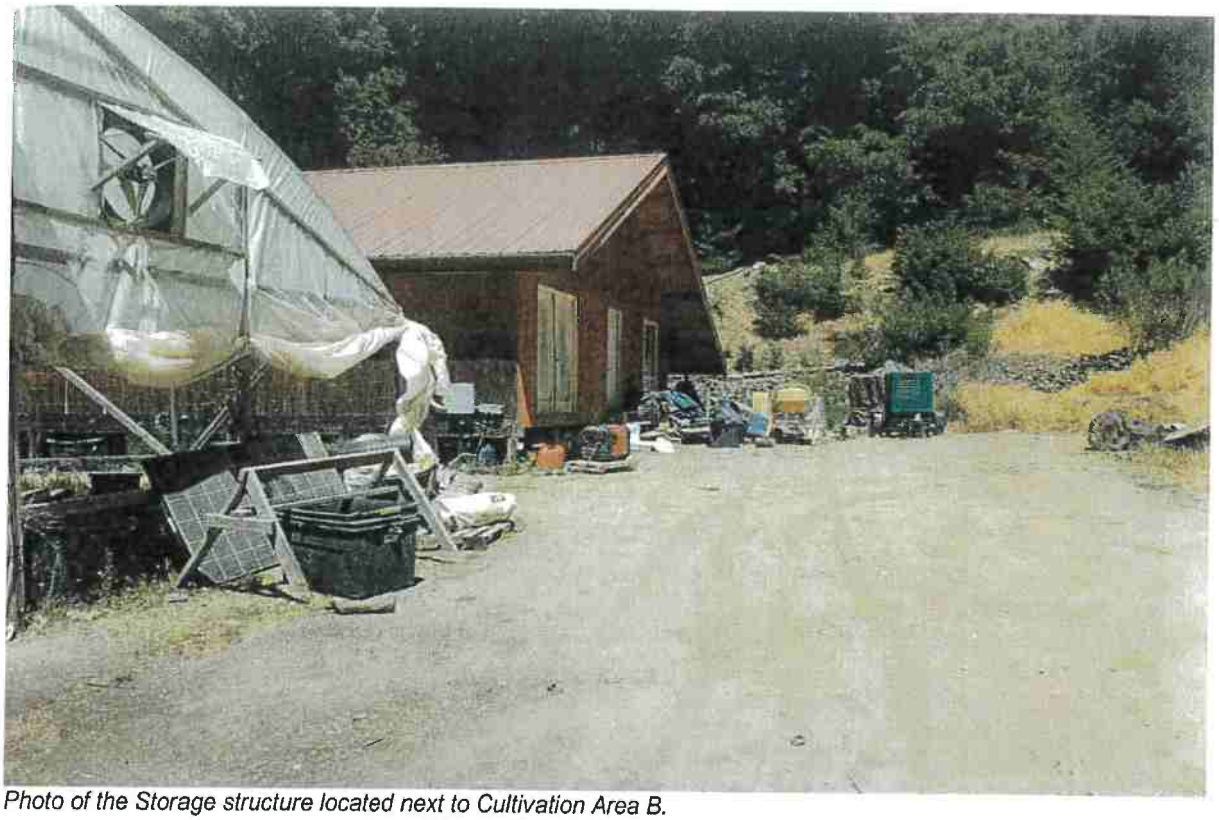


Photo of the Storage structure located next to Cultivation Area B.

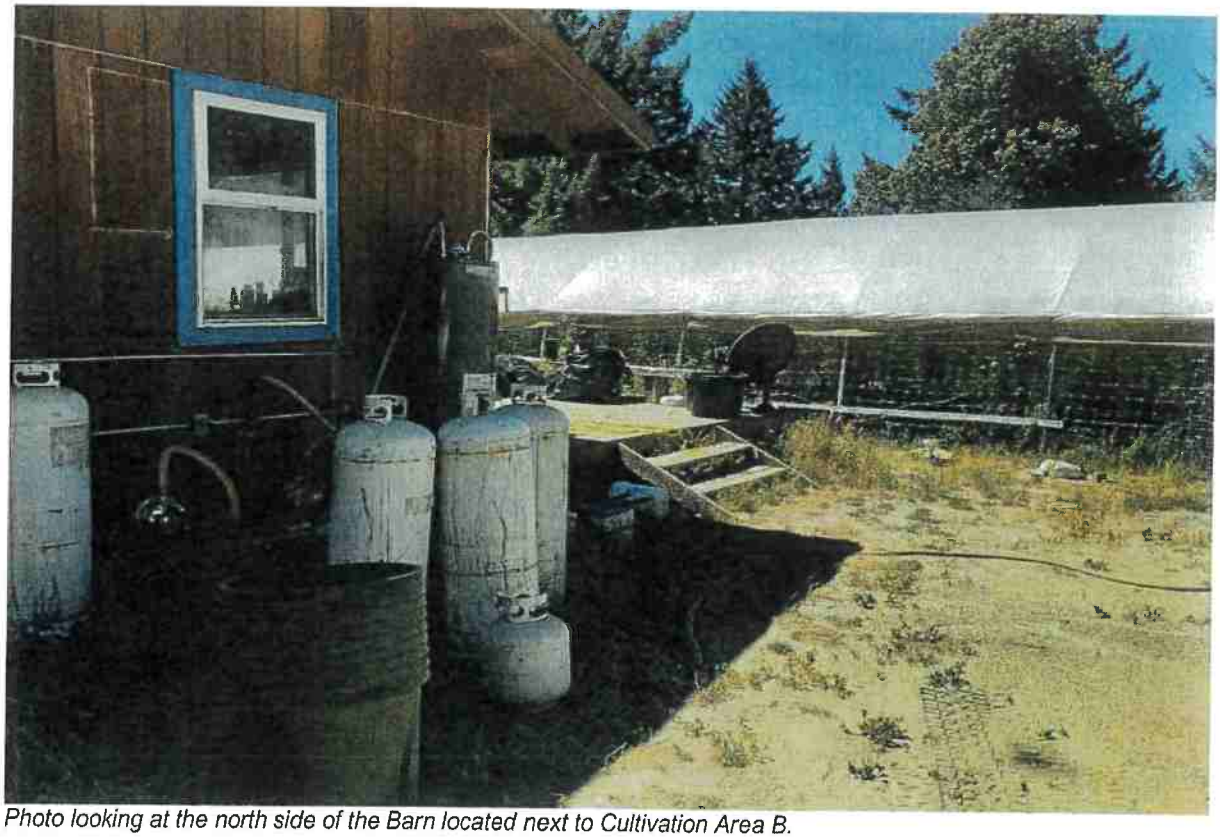


Photo looking at the north side of the Barn located next to Cultivation Area B.

Photo looking at the cultivation related waste at Site 18.

Photo looking at the uncovered diesel generator at Site 20.

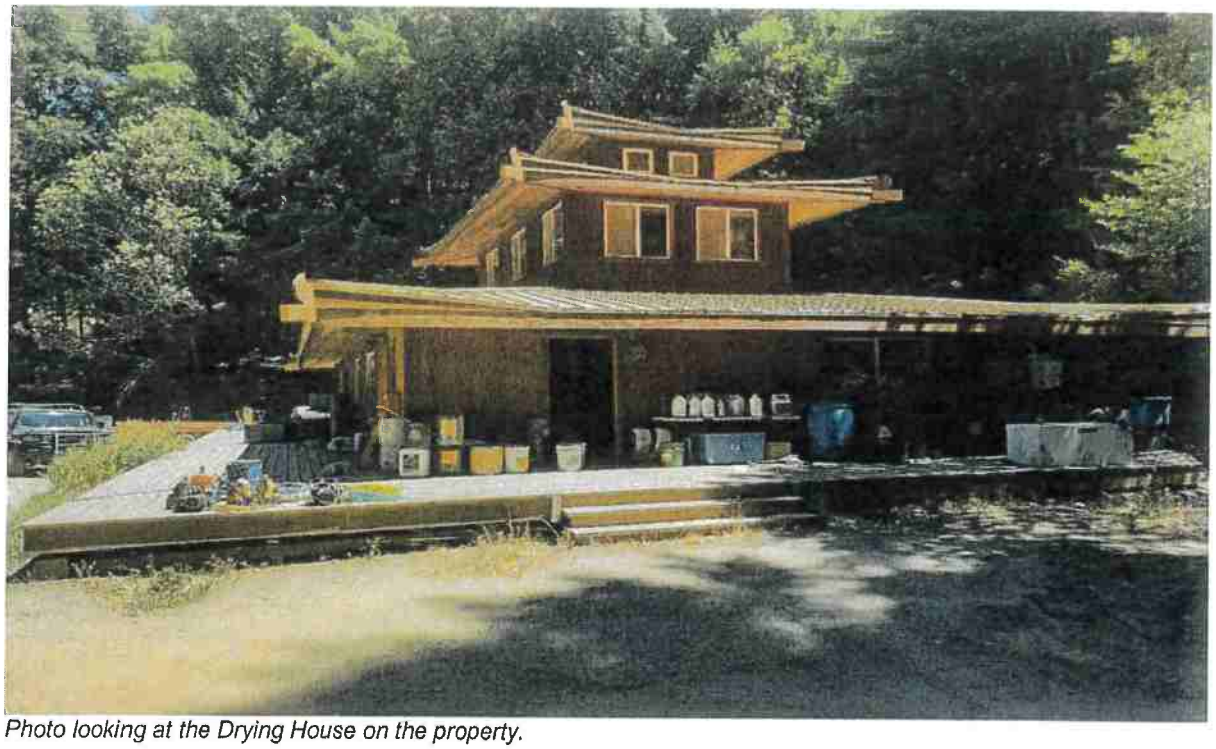


Photo looking at the Drying House on the property.

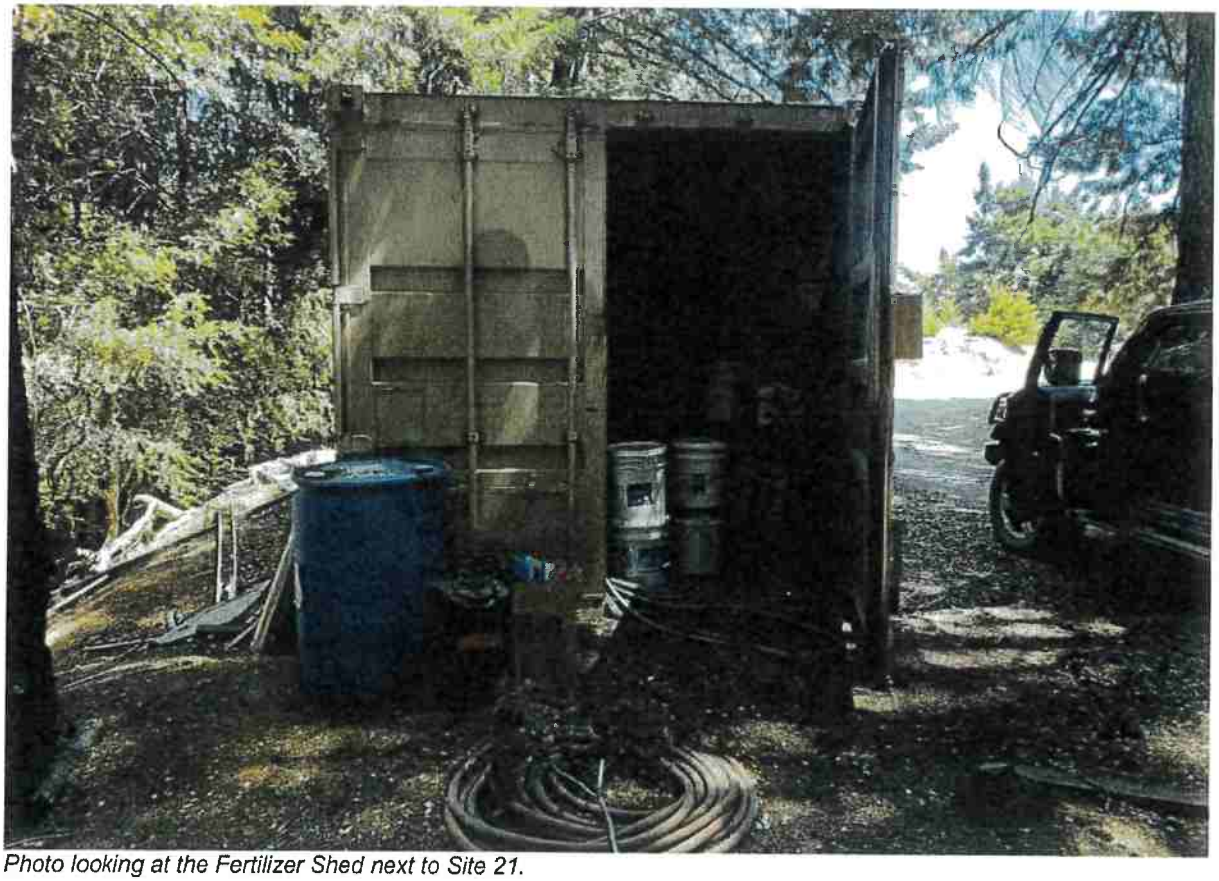


Photo looking at the Fertilizer Shed next to Site 21.

Photos looking at the petroleum tanks that don't have proper cover at Site 21.

Photo looking at the uncovered soil pile at Site 22.

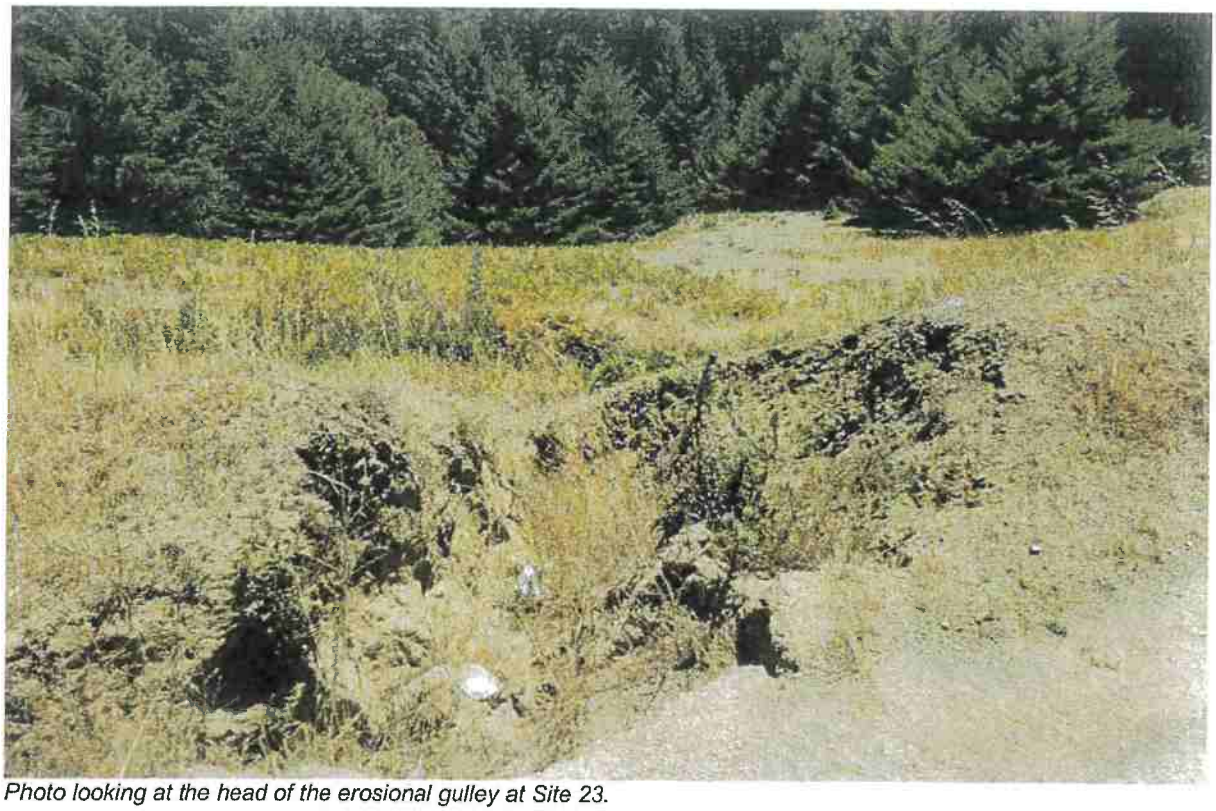


Photo looking at the head of the erosional gulley at Site 23.

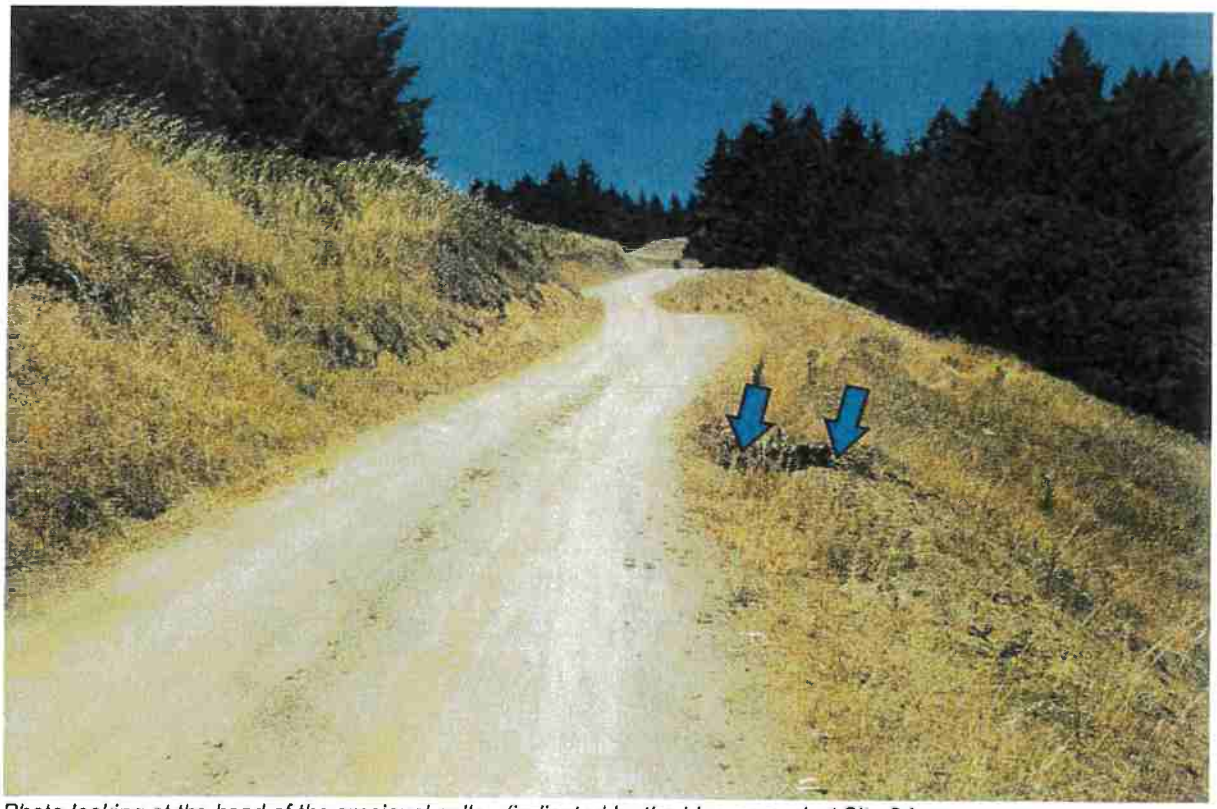


Photo looking at the head of the erosional gulley (indicated by the blue arrows) at Site 24.

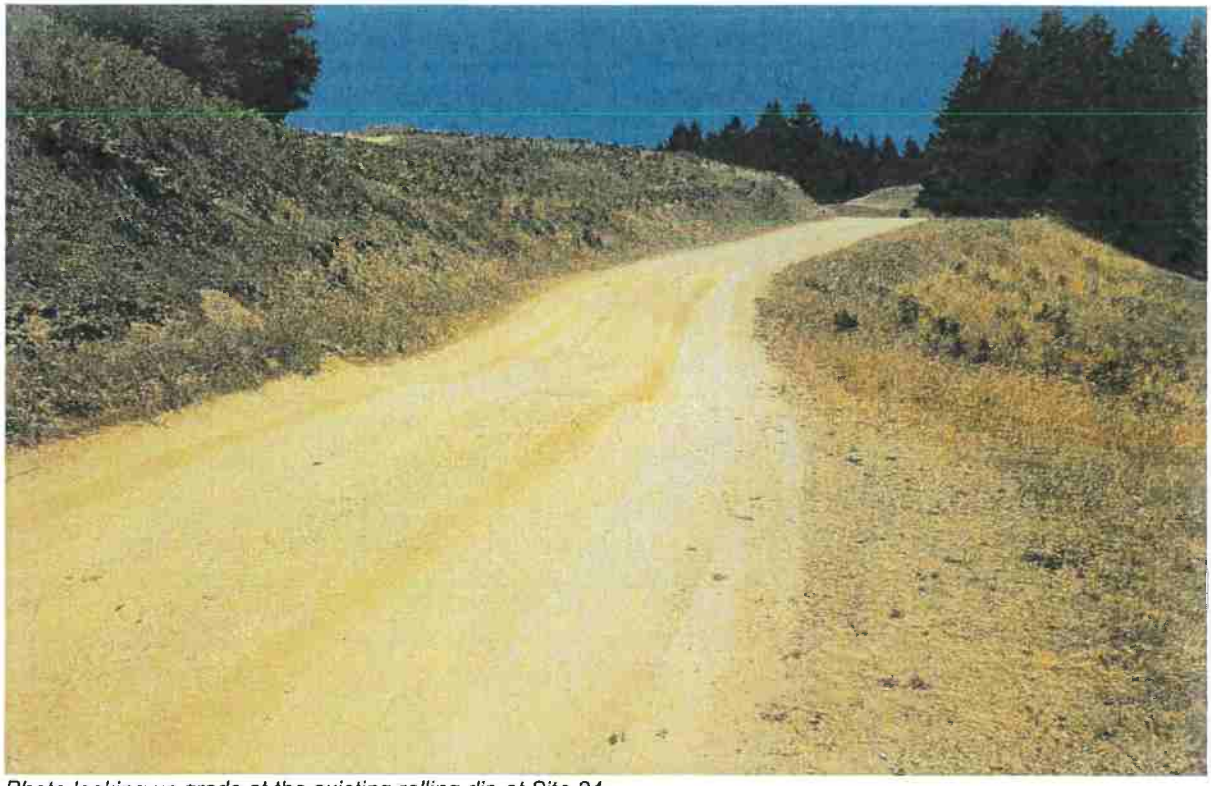


Photo looking up grade at the existing rolling dip at Site 24.

Photo looking down grade at the existing rolling dip at Site 24.

Photo looking at the active bladder at Site 25.

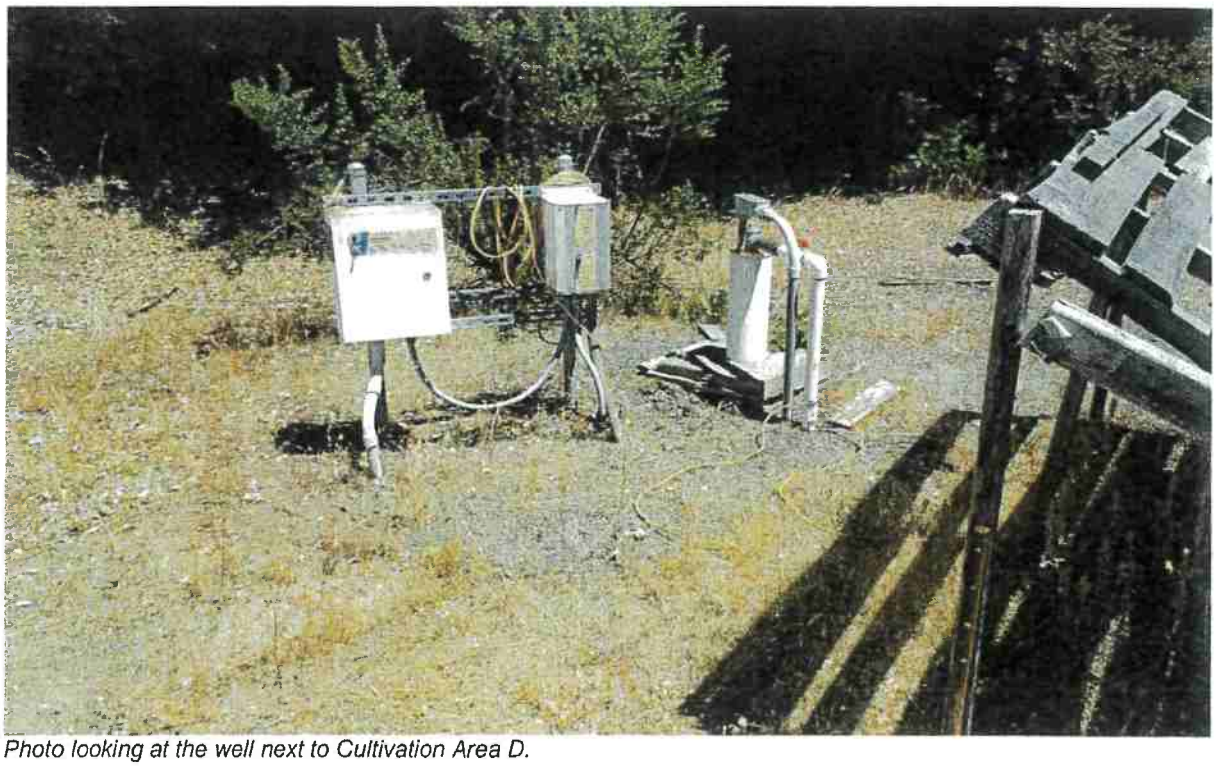


Photo looking at the well next to Cultivation Area D.

STATEMENT OF CONTINGENT AND LIMITING CONDITIONS CONCERNING THE PREPARATION AND USE OF REPORTS ADDRESSING GENERAL WASTE DISCHARGE REQUIREMENTS UNDER ORDER WQ 2017-0023-DWQ

Prepared by Timberland Resource Consultants

1. This document has been prepared for the property within APNs 211-183-008 and 211-184-006, in Humboldt County, for enrollment in the General Waste Discharge Order WQ 2019-0001-DWQ.

2. Timberland Resource Consultants does not assume any liability for the use or misuse of the information in this document.

3. The information is based upon conditions apparent to Timberland Resource Consultants at the time inspection(s) were conducted. Changes due to land use activities or environmental factors occurring after inspection have not been considered in this document.

4. Maps, photos, and any other graphical information presented in this report are for illustrative purposes. Their scales are approximate, and they are not to be used for locating and establishing boundary lines.

5. The conditions presented in this document may differ from those made by others or from changes on the property occurring after inspections were conducted. Timberland Resource Consultants does not guarantee this work against such differences.

6. Timberland Resource Consultants did not investigate a legal survey of the property.

7. Persons using this document are advised to contact Timberland Resource Consultants before the site describes such use.

8. Timberland Resource Consultants will not discuss this document or reproduce it for anyone other than the Client for which this document was prepared without authorization from the Client.

Alex Benn

Timberland Resource Consultants