

## **Water Resources Protection Elements**

APN: 212-015-020

### **RD1/2, OG1, R1/2/3 Overview**

The cultivation site (OG1) does not meet the required minimum setbacks (50-feet) from a surface watercourse/wetland. It is recommended that the cultivation boundary be moved upslope to exceed the minimum setback requirements, buffers be installed and riparian restoration be implemented. The following elements describe the specific portions of the recommendations.

### **Existing and Recommended Cultivation Boundaries (A) (B)**

The present cultivation boundary (A) is within the required minimum setback (50-feet) of a Class-III watercourse/wetland. It is recommended that the cultivation boundary be moved upslope (B) to exceed the minimum setback requirements. The removal of this portion of the cultivation site will require remediation and restoration. This includes, but is not limited to: restoring slope and drainage features that protect water quality, revegetation to prevent erosion and surface discharge, and margins that facilitate the transition from developed/cultivated sites to natural riparian zones.

### **Riparian Buffer (C)**

A professional restorationist is recommended for establishing a riparian buffer plan.

### **Remediation Buffer / Integrated Pest Management (D)**

On-contour swales (linear ditches) that evenly distribute water throughout the length of the system due to their on-contour (same elevation, level bed) design. Swale size is determined by the infiltration rate of the native soil (high infiltration rate, smaller volume; low infiltration rate, larger volume). All on-contour swales require redundant, armored overflow points to facilitate discharge during high stormwater events. The material removed to create the swale is deposited on the downslope side to act as a berm with its downslope side shaped to match the natural slope and contour of the land. The berm is an ideal location to plant *Integrated Pest Management* species (IPM). The swales should be backfilled with woody, chip material to facilitate the breakdown of nitrogenous runoff. These chips can be spread throughout the cultivation area after the wet season to enhance soil quality for future plant nutrition.

### **Water Conservation Margin (E)**

Exposed, lined ponds experience increased levels of evaporation, algae growth and poor water quality. It is recommended that an upper canopy be established on the south aspect of the pond (R1) to decrease evaporation and algae growth rates and increase water quality. It is further recommended that an egress structure be established to protect wildlife.

### **Riparian Restoration Zone (F)**

A professional restorationist is recommended for establishing a management plan.

**Rainwater Catchment System (G)**

Plumb rooftop gutters (RD1, RD2) into jumper tanks that are pumped via 12v-solar system to storage (R1). This will ensure pond fills in less than average rainfall years and provides supplemental volume from summer storm events.

**Topographical Drainage (H)**

A professional restorationist is recommended for establishing a management plan.

**Required Permitted Crossing (I)**

Implement crossing strategy per engineer's design. Permits are required. Implementation should be through a licensed professional.

-----

**OG2/MS2 Overview**

This site has been designed to fit the preexisting natural contours. The gardens have been set into the landscape with hand-work only. There are some small unstable features; however, these do not pose a threat to water quality.

**On-Contour Native Herbaceous Plants**

Utilizing an A-Frame to determine lines of contour plant native, herbaceous plants that will facilitate infiltration for groundwater recharge as well as slope stabilization.

-----

**OG3/MS3/R4 Overview**

This site is isolated from the main use areas of the parcel and is limited to a narrow strip of topography along a ridge. Given this isolation, fuel management is of the highest priority.

**Fuel Modification (FM)**

Road margins and ceilings require fuel modification (see specific agency requirements governing the specs). Activities should be conducted in such a way so as to promote a healthy forest margin of understory species as well as promoting infiltration and slope stabilization from road and slope runoff. The byproduct material from this management can be chipped to provide soil protection and plant nutrition in cultivated sites, remediation of agricultural runoff and greywater systems. The infiltration of rainwater is a key component in recharging groundwater supplies that can have positive, cumulative effects on forest health and in-stream flows.

**Forest Restoration (FR)**

Forest should be managed for a healthy matrix of hard and soft woods as well as vertical integration from canopy to ground cover. This includes the processing of forest side cast materials from grading and increased solar insolation activities. The plan must include protocols for managing the presence invasive species as well as their

immigration from restoration activities (day-lighting, disturbed soil). The management of buffers beyond the restoration site and prior to the riparian zone must be of natural slope and native vegetation. This will facilitate a tertiary system of discharge protection from surface waters. Utilize large woody debris as velocity dissipators and natural areas of depression as infiltration sites. The infiltration of rainwater is a key component in recharging groundwater supplies that can have positive, cumulative effects on forest health and in-stream flows.

### **Road Management (RM)**

Roads must be managed to prevent the destabilization of slopes, the sedimentation of watercourses and minimize the footprint of forest disturbance. A road assessment by a licensed professional is recommended to identify discharge strategies (i.e. outsloping, inboard ditch with relief culvert, etc.), frequency and location of discharge points and surfacing with high grade aggregate material.

The above are recommendations and not prescriptions of method and manner. Your WRPP provides short term strategies to prevent the discharge of sediment and cultivation related wastes from entering surface waters until permanent systems can be deployed during the appropriate time of year. All recommendations should be engineered and implemented by licensed professionals.

Lynn Ryan

APN 212-015-020

RI-2  
T2-3  
RD1  
R3  
T4-6  
T1  
OG1  
C1

MS2  
OG2

OG12  
R4  
T7



Legend  
RD: Residence  
MS: Materials Storage  
R: Pond  
T: Water Storage  
OG: Outdoor Garden  
C: Proposed Culvert



Google earth

1000 ft



Water Resources Protection Elements  
APN: 212-015-020 (RD1/2, OG1, R1 2/3)

Legend

- A: Existing Cultivation Boundary
- B: Recommended Cultivation Boundary
- C: Riparian Buffer
- D: Remediation Buffer/IPM
- E: Water Conservation Margin
- F: Riparian Restoration Zone
- G: Rainwater Catchment System
- H: Topographical Drainage
- I: Required Permitted Crossing



Google earth

Distances, locations, use only as references. Recommendations are not prescriptions of method or material.



200 ft



Water Resource Protection Elements  
APN: 212-015-020 (MS2/OG2)  
Legend  
A: On-Contour, Native Herbaceous Plants



Google earth

Relative locations, use as reference only. Recommendations and not prescriptions of method or manner.



**Lynn Ryan (OG3)**

APN: 212-015-020

**Legend**

FM: Fuel Modification

FR: Forest Restoration

RM: Road Management

OG3

10%

FM

RM

FR

R4

~32,000-gallons



200 ft



Google earth



<b>Site Triage Plan 2017</b> <b>APN: 212-015-020</b>					
Season: W (winter), Sp (spring), Su (summer), F (fall), A (all), V (various)					
System	Element	Site Code	Notes	Season	Completed
Assessments	Roads	C1	Grading, surface and discharge points.	A	
	Riparian Restoration	C/F/H	Slope, discharge and vegetation.	A	
	Ponds	R1-3	Grading per county code.	A	
Cultivation Sites	Hydrologic Connectivity	OG1	Maintain hydrologic disconnection with the headwall of the Class-III stream.	A	
	Spoils	OG1	Establish a processing site and plan for all spoils and used soil that is greater than 200-feet from any watercourse.	A	
	Fertigation Tank	OG1	Install mulch-basin at fertigation tank to process clean out.	A	
Developed Site	Human Waste	OH	Begin longterm planning for septic system.	A	
	Blackwater	RD1	Kitchen sink discharge is too close to headwall of Class-III stream. Relocation and updated system is required.	A	
	Greywater	RD1	Shower, bathroom sink and laundry requires mulch-basin and set backs from surface waters.	A	
Water System	Data	OG1	Determine total volume of irrigation storage required for 180-day forbearance period.	A	
	Rainwater Catchment	RD1 RD2	Install catchment system at all structures and plumb to irrigation storage.	A	

This is a guiding framework for best management practices related to private, rural properties. Its purpose is to provide the client with information to design systems based on environmental compliance and permaculture principals. This document does not replace the official documents required by governing agencies. These are recommendations only and not prescriptions for method or manner. All work should be designed and implemented by licensed professionals. We accept no liability for owner-build work based on this management plan.



Standard Conditions Compliance Requirements - 2017						
Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>1. Site Maintenance, Erosion Control and Drainage Feature</b>						
All OG2 OG3	Roads  Satellite Road	Road Maintenance Other Corridors	<b>Triage Items</b> <ul style="list-style-type: none"> <li>• Full road assessment by a licensed professional.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Hand-dig water bars at frequent intervals to discharge road runoff into protected discharge points.</li> <li>• Lay straw-flake checkdams or straw wattles at frequent intervals to discharge road runoff into protected discharge points.</li> <li>• Seed margins and discharge points with erosion mix per manufacturers instructions and mulch with straw.</li> <li>• Clear in-board ditches and the head of relief culverts of accumulated sediment dams and only enough vegetative debris to facilitate functionality.</li> <li>• Install small, rock checkdams in in-board ditches as a sediment control device.</li> <li>• Install trash-rack at the head of the relief culvert.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See <i>Water Resources Protection Elements</i> document.</li> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>	2		

			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Implement road drainage, discharge and maintenance per licensed professional's assessment.</li> <li>• Road elements to include but not limited to:</li> <li>• Shape and grade road to outslope to continually shed stormwater so as not to overwhelm in-board drainage features.</li> <li>• Increase number of rolling dips and/or other discharge strategies.</li> <li>• Upgrade size of ditch relief culvert per assessment.</li> <li>• Surface road with appropriate, high quality rock.</li> <li>• Revegetate margins with native species.</li> <li>• Decommission roads and other corridors based on <i>Cannabis Cultivation Site Matrix</i> results. Decommissioning to include regrading to natural slope and revegetating with native species. Temporary erosion control strategies must be implemented before and immediately after earthworks.</li> </ul>		September 2018	
All	Roads	Discharge Points	<b>Triage Items</b> <ul style="list-style-type: none"> <li>• Assessment by a licensed professional.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Utilize riprap or large woody debris at points of discharge to prevent erosion and disperse flow to promote infiltration.</li> <li>• Install straw bales or straw wattles per erosion prevention protocol.</li> <li>• Establish revegetation protocol.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See <i>Water Resources Protection Elements</i> document.</li> <li>• See attached documents <i>Satellite Roads</i> and <i>Disturbed Soil Management</i> documents for more information.</li> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>	2		
OG1 OG2	Satellite Road					
RD1 MS1 MS2 MS3	Developed Sites					
OG1 OG2	Cultivation Site					



			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Implement discharge strategies per licensed professional's assessment.</li> <li>• Discharge elements to include but not limited to:</li> <li>• Armor the outflow end of discharge point and install a velocity dissipater.</li> <li>• Replace waterbars with rolling dips.</li> <li>• Increase frequency of discharge points.</li> <li>• Install infiltration basins at points of discharge.</li> <li>• Install on-contour swales to promote infiltration and surface flow disconnection.</li> <li>• Implement revegetation protocol.</li> <li>• Temporary erosion control strategies must be implemented before and immediately after earthworks.</li> </ul>		September 2018	
All OG1 OG2  RD1 MS1 MS2 MS3  OG1 OG2	Roads  Satellite Road  Developed Sites  Cultivation Site	Hydrologic Disconnection	<b>Triage Items</b> <ul style="list-style-type: none"> <li>• Assessment by a licensed professional.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Reestablish connectivity with designed discharge strategy (i.e. install waterbar to reconnect road runoff with in-board ditch).</li> <li>• Protect discharge point with checkdam, straw flakes, large woody debris, etc. to slow the flow of discharge and allow sediment to fall out of suspension.</li> <li>• Hand-dig water bars at frequent intervals to discharge road runoff into protected discharge points.</li> <li>• Lay straw-flake checkdams or straw wattles at frequent intervals to discharge road runoff into protected discharge points.</li> <li>• Establish straw-flakes or straw wattles along the entire perimeter of developed or cultivated sites (flats) at all potential points of hydrologic connectivity.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See <i>Water Resources Protection Elements</i> document.</li> <li>• Establish revegetation protocol.</li> <li>• See attached documents <i>Satellite Roads</i> and <i>Disturbed Soil Management</i> documents for more information.</li> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>	2		

			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Implement hydrologic disconnection strategies per licensed professional's assessment.</li> <li>• Disconnection elements to include but not limited to:</li> <li>• Replace waterbars with rolling dips.</li> <li>• Install infiltration basins at points of discharge.</li> <li>• Increase frequency of discharge points.</li> <li>• Regrade flats to shed stormwater into protected infiltration areas.</li> <li>• Implement revegetation protocol.</li> </ul>		September 2018	
MS1 MS2 MS3	Materials Storage	Stockpiled Materials	<b>Triage Items</b> <ul style="list-style-type: none"> <li>•</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Utilize secure structure for potentially hazardous materials (materials that pose a threat to water quality).</li> <li>• Organize benign materials (materials that do not pose a threat to water quality).</li> <li>• Remove refuse and other unwanted materials from the property and dispose of offsite at an appropriate disposal facility.</li> <li>• Process byproducts related to road/site maintenance.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
			<b>Permanent Strategies</b>		On Going	



Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>2. Stream Crossing Maintenance</b>						
C1	Culverts Fords Topographical Drainages	Hydrologic Calculations Organism Passage Functionality	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Assessment by a licensed professional.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Ensure that road surfaces approaching the crossing drain into protected discharge points prior to watercourse.</li> <li>Remove vegetative debris from the head of the culvert.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>Establish revegetation protocol for bank of riparian zone.</li> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>	1		
			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>Implement stream crossing maintenance strategies or upgrade per licensed professional's assessment.</li> <li>Assure that pipe diameter will facilitate a 100-year storm event and is sufficient for the passage of aquatic life during all life stages.</li> <li>Crossing elements to include but not limited to: <ul style="list-style-type: none"> <li>Increase basin size at culvert head and protect with riprap.</li> <li>Install riprap at the toe of the culvert to reduce erosive force.</li> <li>Surface road with appropriate, high quality rock.</li> </ul> </li> <li>Ensure that road surfaces approaching the crossing drain into protected discharge points prior to watercourse.</li> <li>Install critical dip or other redundant system to protect the fill prism in the event of a plugged crossing.</li> <li>Implement revegetation protocol for riparian zone.</li> </ul>		September 2018	

Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>3. Riparian and Wetland Protection and Management</b>						
OG1 OG2 OG3	Cultivation Site	Setbacks  Buffers	<b>Triage Items</b> <ul style="list-style-type: none"> <li>• Soil nutrition testing to guide feeding regiment to prevent the overuse of fertilizers and amendments thus preventing excessive leaching.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Deploy temporary strategies to disconnect cultivation site from surface water via surface runoff.</li> <li>• Mulch all exposed and disturbed soil including pathways, slope faces and pads or deploy other forms of erosion prevention.</li> <li>• Relocate fertigation system to a site greater than 200-feet from a watercourse.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See <i>Water Resources Protection Elements</i> document.</li> <li>• See attached document <i>Cannabis Cultivation Site Matrix, Cannabis Cultivation Buffers</i>, and <i>Site Design for Cannabis Cultivation</i> for more information.</li> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
C1  R1 R2 R3	Crossing  Grading  Unstable Feature	Hydrologic Disconnection  Functionality	<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Install remediation buffer at all downslope points of discharge to riparian zones.</li> <li>• Install remediation basin at fertigation tank to process discharge from clean out.</li> </ul>		On Going	



Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>4. Spoils Management</b>						
SP	Soil and Spoils Processing Site	Discharge Setbacks Forest Side Cast	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Cultivation related spoils can not be burned.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Contain used soil pile with a straw bale or wattle perimeter.</li> <li>Seed and mulch or tarp used soil pile.</li> <li>Contain non-compostable byproducts, such as rock-wool rooting medium, to be disposed of properly offsite.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
OG1 OG2 OG3	Cultivation Site		<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>Establish a 3-tiered composting system for vegetative byproducts.</li> <li>Rip compacted soils prior to placing spoils to promote the infiltration of tailwater.</li> </ul>		On Going	
Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>5. Water Storage and Use</b>						
POD	Point of Diversion	Water Quality	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Assessment of storage pond (levee and slope stability, spillway) by a licensed professional.</li> <li>Install a water meter and collect monthly data. Separate domestic use from agricultural use.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Check organism exclusion device for functionality.</li> <li>Mulch all exposed soil to reduce evaporative rates.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>Assessment for microclimate enhancement plan.</li> <li>Assessment for <i>Living Soils</i> style of cultivation to reduce irrigation.</li> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
TT	Transfer Tank	Wetland Protection				
T R1 R2 R3	Water Storage	Water Conservation				
OG1 OG2 OG3	Cultivation Site					

			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Install irrigation system so that water is applied at the root zone to promote deep, wide root growth.</li> <li>• Replace plastic valves at tank with metal gate valves.</li> <li>• Manifold tanks greater than 3,000-gallons internally.</li> <li>• Install rainwater catchment system at all structures and plumb to main storage.</li> <li>• Install rainwater harvesting systems on the upslope perimeter and within the the cultivation site to recharge groundwater supplies.</li> <li>• Implement microclimate enhancement plan.</li> <li>• Implement <i>Living Soils</i> design plan.</li> </ul>		On Going	
Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>6. Irrigation Runoff</b>						
OG1 OG2 OG3	Cultivation Site	Discharge	<b>Triage Items</b> <ul style="list-style-type: none"> <li>• Monitor irrigation volumes to avoid runoff.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>• Soil nutrition testing to guide feeding regiment to prevent the overuse of fertilizers and amendments thus preventing excessive leaching.</li> <li>• Maintain and update irrigation system to prevent leaks.</li> <li>• Employ rain-triggered shutoff devices for automated irrigation systems.</li> <li>• Mulch all exposed soil including planting areas, pathways and pads.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>• See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>• See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
			<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>• Install remediation buffer at at all downslope points of discharge.</li> </ul>		On Going	



Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>7. Fertilizers and Soil Amendments</b>						
OG1 OG2 OG3	Cultivation Site	Discharge  Secure Storage	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Utilize a secure storage facility for all cultivation related materials.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Place all liquid-based materials in secondary containment (totes).</li> <li>Products shall be labeled properly and applied according to the label.</li> <li>Periodically calibrate application equipment.</li> <li>Post inventory of cultivation related materials with application rates.</li> <li>Store spill-kit at each storage facility.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>Assessment for <i>Living Soils</i> style of cultivation to reduce offsite inputs.</li> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
MS1 MS2 MS3	Materials Storage	Inventory and Application Rates	<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>Install remediation basin for fertigation system discharge/clean-out.</li> <li>Install anti-backflow devices on fertigation systems.</li> <li>Implement <i>Living Soils</i> design plan.</li> </ul>		On Going	

Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>8. Pesticides and Herbicides</b>						
OG1 OG2 OG3	Cultivation Site	Discharge  Secure Storage	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Utilize a secure storage facility for all cultivation related materials.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Place all liquid-based materials in secondary containment (totes).</li> <li>Products shall be labeled properly and applied according to the label.</li> <li>Periodically calibrate application equipment.</li> <li>Post inventory of cultivation related materials with application rates.</li> <li>Store spill-kit at each storage facility.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>Develop an <i>Integrated Pest Management</i> program to replace packaged products.</li> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
MS1 MS2 MS3	Materials Storage	Inventory and Application Rates	<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>Implement <i>Integrated Pest Management</i> program.</li> </ul>		On Going	
Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
<b>9. Petroleum Products and Other Chemicals</b>						
MS1 MS2 MS3	Materials Storage	Discharge  Secure Storage  Inventory  Spill Protocol	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Utilize a secure storage facility for all petroleum-based materials.</li> <li>Store spill-kit at each storage facility.</li> <li>Provide appropriate fire prevention strategies and fire suppression equipment at each facility.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Place all liquid-based materials in secondary containment (totes).</li> <li>Assess solar battery system for leaks.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			



			Permanent Strategies		On Going	
Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
10. Cultivation Related Wastes						
SP	Soil and Spoils Processing Site	Discharge Processing	<b>Triage Items</b> <ul style="list-style-type: none"> <li>Establish a 3-tiered composting system for vegetative byproducts.</li> </ul> <b>Monitoring, Maintenance and Protocols</b> <ul style="list-style-type: none"> <li>Contain used soil pile with a straw bale or wattle perimeter.</li> <li>Seed and mulch or tarp used soil pile.</li> <li>Contain non-compostable byproducts such as rock-wool rooting medium to be disposed of properly offsite.</li> </ul> <b>Design</b> <ul style="list-style-type: none"> <li>Establish a soil management plan for the purpose of reducing off-site soil.</li> <li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li> <li>See attached documents for information related to <i>monitoring requirements</i>.</li> </ul>			
OG1 OG2 OG3	Cultivation Site		<b>Permanent Strategies</b> <ul style="list-style-type: none"> <li>Rip compacted soils prior to placing spoils to promote the infiltration of tailwater.</li> <li>Implement <i>living-soils</i> management for the purpose of eliminating the need for off-site soil.</li> </ul>		On Going	

Site Code	Map Point Description	Standard Condition	Recommendations	Action Priority	Permanent Strategy	Completion Date
11. Refuse and Human Waste						
RD1	Residence	Discharge	<b>Triage Items</b> <ul style="list-style-type: none"><li>Utilize a secure storage facility for all refuse to be disposed of offsite.</li><li>Assessment of permanent human-waste facility (septic system).</li><li>Relocate greywater and blackwater system to at site greater than 200-feet from a watercourse.</li></ul> <b>Design</b> <ul style="list-style-type: none"><li>See attached documents for more information related to <i>short term strategies for protecting water quality</i>.</li><li>See attached documents for information related to <i>monitoring requirements</i>.</li></ul>			
MS1	Materials Storage	Containment				
MS2						
MS3						
			<b>Permanent Strategies</b> <ul style="list-style-type: none"><li>Install mulch basin at greywater system discharge point.</li><li>Installation of permanent human-waste facility (septic system,).</li></ul>		On Going	