Carnegie SVRA
Storm Water Management Program
2023 Annual Report

California Department of Parks and Recreation
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Date: March 2024

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Appendices

1 Purpose

The Carnegie State Vehicular Recreation Area (Carnegie SVRA) Storm Water Management Plan's (SWMP) purpose is to reduce or eliminate potential pollutant discharges from Carnegie SVRA using site-specific structural and non-structural best management practices (BMPs) to protect and improve water quality, while also providing high quality Off-Highway Vehicle (OHV) recreational opportunities.

Carnegie SVRA formally implemented the SWMP in February of 2012. The SWMP requires that an annual report be submitted to the Central Valley Regional Water Quality Control Board (CVRWQCB). The purpose of the annual report is to provide the status of measurable goals and summarize monitoring information collected during the reporting period. In July 2013, Carnegie SVRA submitted a Notice of Intent for and received coverage under the Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit (Phase II Permit) as a Non-Traditional Permittee. The SWMP implementation, which is in its 12th year, is often performed in conjunction with the Phase II Permit compliance activities.

Carnegie SVRA is subject to the requirements of the Phase II Permit as a Non-Traditional Permittee. The Phase II Permit requires the submittal of an Annual Report to summarize the previous year's compliance effort. An Effectiveness Assessment (EA) has been created to provide the information requested in question number 55 of the 2022-2023 Annual Report, which includes the following (see Appendix A):

- A description of the implementation of the Program Effectiveness Assessment and Improvement Plan (PEAIP);
- A summary of the data obtained by conducting a program EA;
- An analysis of the EA data; and
- A summary of the short and long-term progress of the storm water program.

The SWMP program requires activities that are used to evaluate the storm water program's impact on improving water quality. Activities include rehabilitation of OHV riding areas, installing BMPs, inspecting Resource Management Areas, and monitoring storm water to name a few. The Phase II Permit Annual Report and EA summarize most of the details of the SWMP annual activities and are submitted electronically to the Water Board each year. The SWMP Annual Report summarizes the data in a similar format, and also includes photo points, as well as additional water quality data. The SWMP Annual Report is drafted by environmental staff and submitted for review and approval to the Diablo Range District Superintendent and the RWQCB.

The 2022-2023 reporting year marks the 12th year of SWMP implementation for Carnegie SVRA. After the SVRA received coverage under the Phase II Permit in July 2013, the annual report evaluating the year from July 2013 to June 2014 became the first reporting period (Year 1). Thererefore, all data for the 2022-2023 reporting year will be referenced as "Year 10." The Year 10 SWMP data and analysis are presented in the following sections.

1.1 Site Background

The SVRA is operated by the Diablo Range District under the guidance of the Off-Highway Motor Vehicle Recreation Division (OHMVRD) of the California Department of Parks and Recreation (DPR). The park is located along Corral Hollow Road, between the cities of Livermore and Tracy, California (see Figure 1-1). This unit of the California State Park System provides approximately 1,500 acres of off-highway vehicle (OHV) riding opportunities to the public. The park was purchased by the State in 1979 to continue providing existing off-highway vehicle recreation previously provided by a private motorcycle park. With a diversity of terrain ranging from rolling hills to steep canyons, Carnegie has become a popular destination for off-road enthusiasts of all skill levels.

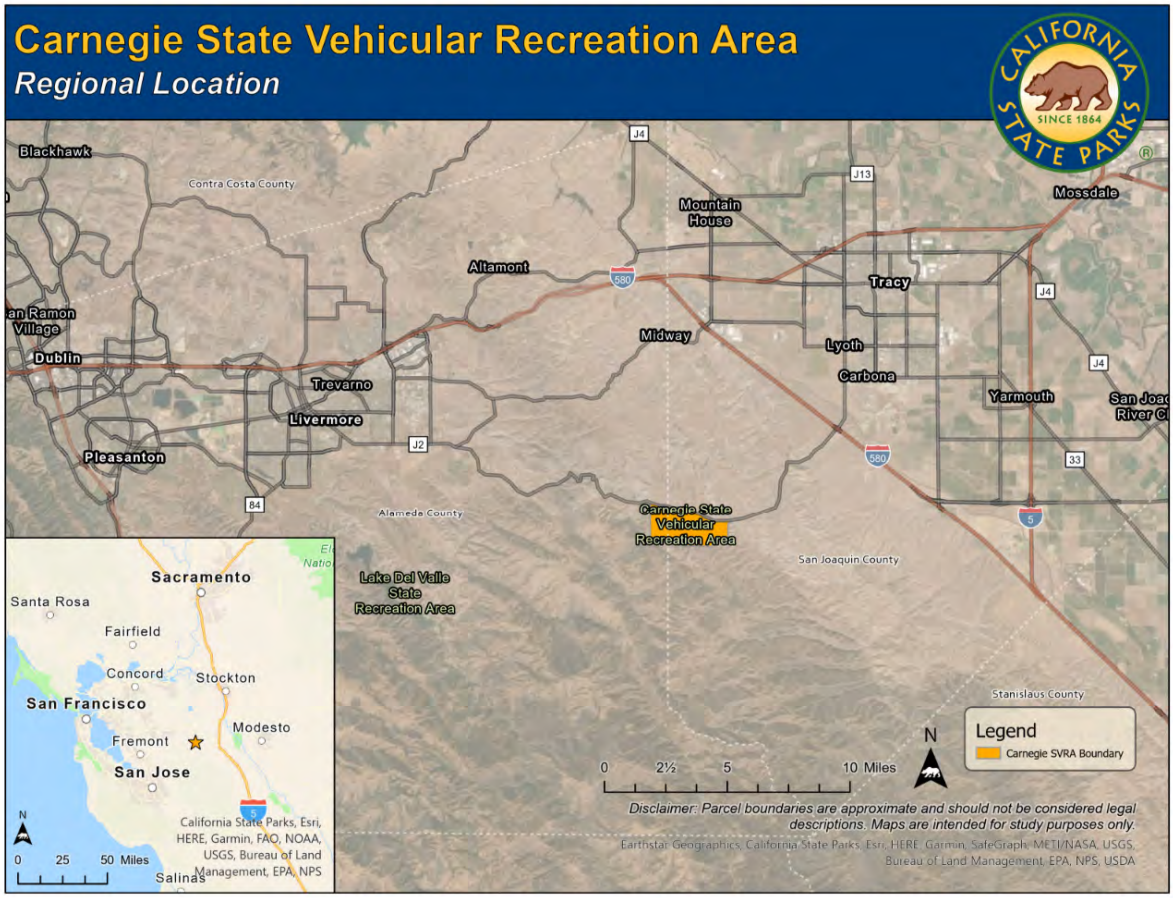


Figure 1-1: Regional Map of Carnegie SVRA

The OHMVRD initiated a stormwater management program at Carnegie SVRA in an effort to protect the park's natural resources, improve water quality and meet the requirements of the National Pollution Discharge Elimination System (NPDES) and the Clean Water Act (CWA). In order to achieve these water quality objectives, a number of projects and programs have been planned and/or are being implemented.

From 2004 to 2007, the OHMVRD contracted with Salix Applied Earth Care and Geosyntec consultants to assess the Corral Hollow watershed. The purpose of the Corral Hollow Watershed

Assessment (CHWA) was to provide the OHMVRD, Carnegie staff, and community stakeholders with an understanding of the historical occurrences that have shaped the watershed. The assessment was also performed to define the current state of the watershed in order to develop future management practices that can be implemented to improve water quality and the health of the watershed. The findings from the CHWA were used to develop design recommendations to reduce erosion and sediment issues through innovative BMPs and active adaptive management framework focused on meeting water quality objectives. This framework includes continual assessment of erosion and sediment generators, implementation of appropriate BMPs, on-going monitoring and evaluation of these actions and plans for long-term maintenance to ensure the success of these actions.

The OHMVRD stormwater management program also included activities related to the Wildlife Habitat Protection plan and Soil Conservation plan, such as the ongoing development and implementation of the Trails Management Plan (now known as the Resource Management Areas program), annual species surveys, and habitat rehabilitation activities. Further components included the implementation, monitoring, and maintenance of projects associated with the OHMVRD Soil Conservation Standard and Guidelines, as well as the use of the OHV-specific BMP manual for selecting, implementing, and maintaining appropriate BMPs. These components are discussed in more detail in the OHV Trails and Facilities Management section.

In February of 2012, this SWMP was implemented with the purpose of reducing or eliminating pollutant discharges from Carnegie SVRA by implementing site-specific structural and non-structural BMPs that protect and improve water quality while allowing for high quality OHV recreational opportunities. This SWMP also includes an OHV element dedicated to discussing management goals and activities for maintaining OHV trails and facilities as they relate to meeting our water quality objectives.

1.2 Regulatory Background

The SWMP was prepared for Carnegie SVRA to describe the procedures and practices used to reduce or eliminate the discharge of pollutants to its drainage facilities and receiving waters. The SWMP addresses discharges of storm water and authorized non-storm water to waters of the United States (as defined by the U.S. Environmental Protection Agency or EPA) and waters of the State of California (as defined by the Porter-Cologne Water Quality Control Act).

The SWMP guides Carnegie SVRA staff on how to comply with the requirements of the *NPDES Waste Discharge Requirements (WDRS) for Storm Water Discharges from Small MS4s* (Order No. 2013-0001-DWQ), issued by the California State Water Resources Control Board (SWRCB) on February 5, 2013 (SWRCB, 2013) (Phase II Permit) and effective July 1, 2013. The SWMP also helps ensure compliance with the *NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (State Construction General Permit or State CGP) (Order No. 2009-0009-DWQ) (SWRCB, 2009) as amended by Order No. 2012-0006-DWQ.

On April 7, 2015, the SWRCB adopted an amendment to the *Water Quality Control Plan for the Ocean Waters of California to Control Trash and Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (together, referred to as the

Trash Amendments). The Trash Amendments apply to all Phase I and II permittees that are subject to the NPDES MS4 permits.

2 Description of SWMP Implementation

The purpose of the SWMP is to reduce or eliminate pollutant discharges from Carnegie SVRA to the Maximum Extent Practicable (MEP). The SWMP achieves this by providing a description of the BMPs that are currently being used or that have been proposed for storm water management at the park. A description of BMPs for each of the following seven program areas (also referred to as Minimum Control Measures) is included in the following sections:

- Section 2.1 – Education and Outreach Program
- Section 2.2 – Public Involvement and Participation Program
- Section 2.3 – Illicit Discharge Detection and Elimination Program
- Section 2.4 – Construction Site Runoff Control Program
- Section 2.5 – Pollution Prevention/Good Housekeeping Program
- Section 2.6 – Post-Construction Storm Water Management Program
- Section 2.7 – OHV Trails and Facility Management

The purpose of completing a SWMP Annual Report is to regularly summarize the SWMP activities from the past year. The data collected in any given year will be used to make potential improvements. It is important to note that the SWMP process is iterative, and subject to its own evaluation and revision to ensure the provided feedback is useful.

2.1 Education and Outreach Program

Public education and outreach is key to effectively implementing the SWMP, ensuring that water quality objectives are met, and promoting greater support for the projects, BMPs and actions undertaken by Carnegie SVRA to protect water quality. The Education and Outreach Program will provide information and resources to staff, volunteers, visitors, and stakeholders (the public) that will improve their understanding of the SWMP. Education and outreach promote better compliance with minimum control measures by teaching individuals about the responsibilities expected of them and others in the community, including actions the public can take to protect or improve the environment. Carnegie SVRA has opted to fulfill the education and outreach requirements within its own jurisdiction with some level of coordination with other organizations to implement public education campaigns, as well as participate in public outreach and education activities with neighboring MS4 permittees.

Figure 2-1: Public Education and Outreach

A majority of Public Education and Outreach is conducted through the existing Interpretive Program. The Interpretive Program addresses natural and cultural resource topics, and is composed of a variety of outreach programs including:

- Junior Rangers;
- School Group Tours;
- Roving Interpretation; and
- Information Station booth and displays .
- Family Rides

2.1.1 Winter Storm Closures and Impacts on Public Education and Outreach

Public Education and Outreach was greatly impacted by the winter storms in this reporting period. Carnegie SVRA was completely closed to the public for 103 continuous days due to heavy rains, which caused damage from flooding and mudslides that made access into the canyon difficult for staff. Since the closure occurred during red sticker season, the Interpreter was unable to conduct the educational programs that were planned for the season. To educate the public on the effects of the storms that resulted in the extended closure, multiple videos on storm damage repairs were posted on social media. Carnegie staff also worked collaboratively to put together an ESRI StoryMap to showcase the storm damages at Carnegie in a format that would be easy for members of the public to view. As of December 2023, the StoryMap has had 471 views. This StoryMap is posted to Carnegie's public webpage for visitors to view and has been shared using a QR code during events in the park. The StoryMap was also shared in a Carnegie Advisory Team meeting and with regulatory agencies as a tool to portray the damage the park received from the winter storms and how diligently staff worked to get the park reopened after the storms.

2.1.2 Website

The Carnegie SVRA website has a Resource Management page, with information on Resource Management Areas (RMAs) and Storm Water Quality. On this page, links to the Storm Water Quality brochure (Figure 2-2 and Figure 2-3) and RMA map are available, as well as a copy of the SWMP, Carnegie's wet weather closure policy, and other educational resources.

2.1.3 Educational Brochures

Carnegie staff created an educational SWMP brochure to help visitors understand how they can protect their riding opportunity and improve water quality by reducing sediment, vehicle parts, vehicle fluids, and trash in storm water runoff. The brochure describes the pollutants of concern and how visitors can prevent them from affecting water quality. This brochure is available on the Carnegie SVRA website, at the entrance station, and at the educational booth during special events and some weekends.

During this reporting period, the distribution of this brochure continued at the park kiosk, the Information Station on the weekends, and in-park special events like the October 2022 Hill Climb and the April 2023 Carnegie Visitor Appreciation Day. In 2023, the interpretation staff updated the SWMP brochure with a new design (Figure 2-2 and Figure 2-3 to be shared with visitors through the website, social media, and in the park. The SWMP brochure was also used as part of staff training during this reporting period. New staff and contractors continue to receive the brochure, which is available in Appendix B and on the OHV website.

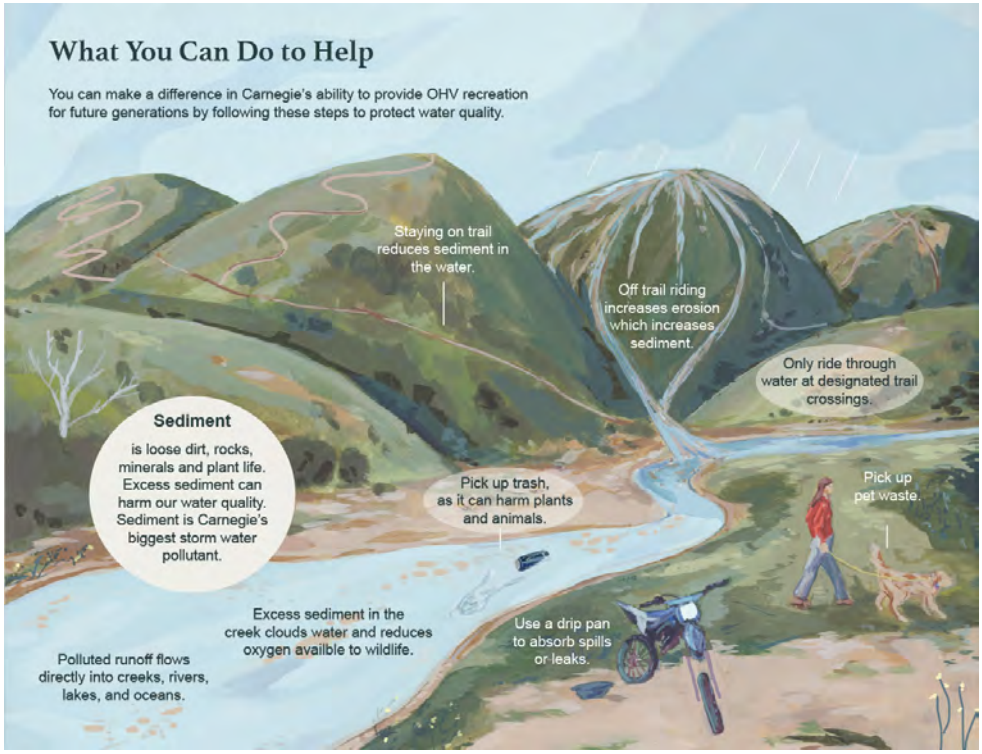


Figure 2-2: SWMP Brochure

Figure 2-3: SWMP Brochure (continued)

2.1.4 Interpretive Panels

A series of interpretive panels help explain the SWMP and its components to Carnegie SVRA's visitors (Appendix B). Four of the panels are about different habitats in the park, the plants and animals that live in those habitats, and how they are affected by water quality. Other panels discuss preventing illicit discharges, outlining the pollutants of concern and explaining what visitors can do to protect water quality. A few of these panels were installed at the park store, where visitors congregate. Additional panels are placed throughout the park in well-trafficked areas. The goal of these panels is to make visitors aware of the importance of protecting water quality, and ways in which they can help. Recently, additional panels were placed throughout the park to communicate project progress and the importance of staying on-trail. A new panel was created in November 2022 for Los Osos Trail that describes erosion, its effects on water quality, and how RMAs combat erosion (Figure 2-4).

Figure 2-4: Storm Water Interpretive Panel

In 2023, work started on creating a riparian area panel (Figure 2-5) on how park staff are working to restore Corral Hollow Creek and how park visitors can continue to protect it. The panel will include a watercolor painting of the riparian area, and will describe how native plant and animal life use the creek. The panel will have flaps that visitors can lift up to see what is happening underground in the riparian area. This panel is expected to be complete in Spring of 2024.

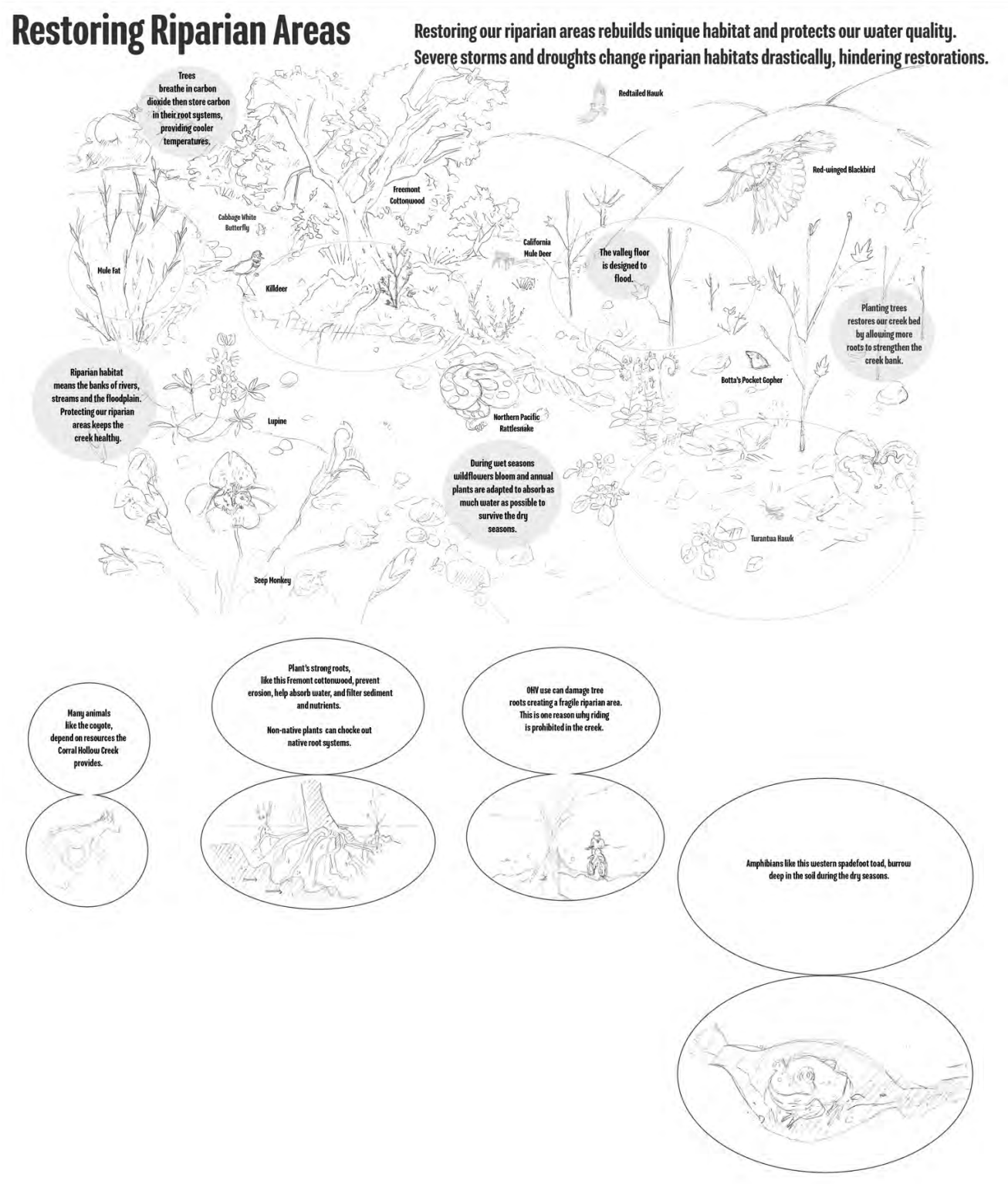


Figure 2-5: Restoring Riparian Area Panel (Draft)

2.1.5 Educational Booth and Information Station

Carnegie hosts approximately four special events per year. At each of these events, an educational booth is set up. Additionally, an information station is set up in the park each weekend during the red-sticker season (i.e. October through April). Both outreach booths allow Carnegie SVRA to educate and inform park users about protecting wildlife and habitat, cultural resources, and water quality. The educational booth at special events typically reaches three hundred visitors per weekend, whereas the information station that is set up over the weekends reaches around thirty visitors per day.

Figure 2-6: The Information Station

The information station is open on the first Saturday of every month during red-sticker season and is located near the concession store. The same materials offered in the booth are set up on Sundays during red-sticker season next to the park store. Educational handouts, which are described in Section 2.1.3, are provided at the kiosk and at the concession store with information about the RMAs. During rehabilitation projects, the information station also provides educational handouts that explain the need for the project, the project location, and the process for reopening. This same booth is taken to events outside the park two to three times a year. Materials available at the education booth include the SWMP brochure, an RMA flyer, as well as information on animals and habitats found within the park.

The park's interpreter is constantly coming up with new ideas to inform the public on aspects of the SWMP. In 2022 (Year 9), for example, the Interpreter constructed an erosion box to demonstrate how vegetation helps increase the park's storm water quality (see Figure 2-7).

During this reporting period, the interpreter initiated the process of having a watershed model constructed for the Corral Hollow Creek watershed to use for demonstrations. Having this watershed model will allow the interpreter to present visitors with visual examples of how processes in the watershed can be influenced by illicit discharges or illegal dumping, and how these things can affect the recreation at Carnegie SVRA. The watershed model is expected to be completed during the 2023-2024 (Year 11) reporting period.

Figure 2-7: Erosion Box

2.1.6 Social Media

Carnegie's Facebook and Instagram page are an effective means for communicating with the public about the Storm Water Management Plan and its requirements. Posts are made several times a week during red-sticker season to keep the public informed about projects or activities that may be occurring in the park. Social media is also updated to notify park visitors about any wet weather closures the park may be experiencing. The public has frequent questions about this policy, and this forum allows Carnegie Staff to respond effectively to already curious users. As of December 2023, the Facebook page has about 9.5K followers, with an engagement of 2.3K users per post. For Instagram, the profile has over 7,746 followers with an average engagement of 8K users per post.

In March of 2021, a video about Carnegie's RMAs and storm water was posted to Facebook with 1.7K views. The social media pages also include Wildlife Wednesday posts throughout the year. This year, there were three posts about wildlife.

2.1.7 Junior Rangers

Since 2021, Carnegie's Interpretation staff have begun hosting a drop-in educational booth for kids, known as the Junior Rangers. The booth is stationed by the kids track area and is set up once or twice per month during red sticker season. Each Junior Rangers booth has a different theme

which is sometimes repeated. Presently, the Junior Ranger themes are Safety, Archaeology, Wildlife, Geology, Birds of Prey, Insects, Snakes, and Wildflowers. The Interpretation staff has plans to create more themes, including a Watershed theme planned for the 2023-2024 reporting period that will incorporate the watershed model discussed in Section 2.1.5. The Junior Rangers booth is a great opportunity to reach the younger generation of riders and educate them on protecting wildlife, habitats, and the importance of mitigating the effects of storm water.

Figure 2-8: Junior Rangers Educational Booth

2.1.8 Volunteer Programs

In Year 10, two volunteers were added to the growing trail maintenance team. Currently the park has a total of eleven volunteers within two volunteer programs: Trail Patrol and Trail Maintenance. The Trail Patrol has been active for over 30 years and assists the Rangers with monitoring park trails to enhance visitor safety. The Trail Maintenance program was created in October 2021 and works with the Natural Resources Trail Crew to help maintain park trails. All volunteers help to educate the public about the importance of staying on the trails. Volunteers learn about Carnegie's SWMP and its importance during training and in the volunteer manual.

Additionally, in February 2023, Carnegie SVRA held a volunteer day to put up fencing to delineate the area where riding is not permitting in the riparian zone of Corral Hollow Creek. The creek delineation fencing was damaged in the 2022-2023 winter storms and new temporary fencing needed to be installed to prepare the park for reopening after the closure from the storm damage. A team of ten volunteers attended a half-day of work to install approximately 6,000 feet of temporary fencing. Lunch was provided for the volunteers and was sponsored by CA Adventours, a company who offers ATV training classes at local SVRAs.

2.1.9 Project Fact Sheets

An informational handout is developed at the beginning of every project implementation to describe the location and reasoning associated with temporary closures for projects in the park. An additional flyer is created and handed out when the area reopens to describe the rehabilitation work that was done, the types of trails that have been put back in, the need for staying on-trail, who to contact with any questions or concerns, and a map of the new trail layout on the back. These fact sheets are handed out by park staff at the park kiosk, at the interpretive booth, and at temporally relevant events.

2.1.10 Biannual Staff Training

Over the last decade, Michael Baker International has served as the SVRA's storm water consultant and has developed and presented biannual training for Carnegie SVRA staff. Training courses typically include illicit discharge detection and elimination (IDDE), as well as pollution prevention/good housekeeping (PPGH). In 2022, Michael Baker set out to identify opportunities to make its storm water training an even more enjoyable process by increasing excitement, access, and participation. For example, the NPDES training included competitive games, collaborative activities, and prizes (e.g., Storm Water Bingo, dynamic Mentimeter quizzes, and scenario planning). Additional activities such as outdoor and hands-on activities will be identified and implemented during the next biannual training in Fall of 2023.

Figure 2-9: Biannual Staff Training

Additionally, the annual assessment was administered after the training to gauge SVRA staff's understanding of water quality issues. Results are discussed in Section 2.2.2, Target Audience Awareness.

2.1.11 Carnegie Advisory Team

On February 21, 2013, the Carnegie Advisory Team (CAT) met for the first time. The CAT's mission is to provide input on park projects and operations that relate to the user's recreational experience and safety. The overall goal is to give stakeholders and members of the public a voice with park staff to present ideas, complaints, and views on current projects, future projects,

operations, and public outreach. CAT meetings provide a forum for park staff to inform stakeholders of park functions, park planning, and regulations and how they pertain to the way the park is or will be operated. This partnership allows management to hear the visitor's ideas and concerns and consider them when making decisions on activities that will affect the park. The partnership also brings transparency to the stakeholders on management decisions regarding park planning and operations. Figure 2-10 shows Fiona Catalano, Carnegie SVRA Interpreter, talking to Carnegie's Advisory Team about the SWMP and how off-trail riding contributes to sediment pollution in Corral Hollow Creek.

Meetings have been typically held monthly to discuss new projects in the park and any relevant park updates. Duties also include trail creation and review, public education, and point of contacts for the public to voice concerns and discuss with park staff. After a brief hiatus due to COVID-19, the CAT meetings were restarted in January of 2023 and continue to be held monthly with SVRA staff, park visitors, and stakeholders in attendance.

Figure 2-10: Carnegie Advisory Team

2.2 Public Involvement and Participation Program

2.2.1 Public Involvement

To effectively implement a SWMP, engaging the public is critical to fostering an understanding of their role in its implementation. Public involvement and participation helps to ensure the SWMP reflects the actions and efforts stakeholders have committed to in support of reducing pollutant discharges, promoting safe and responsible use of park facilities and following all park rules in order to protect and improve water quality.

In addition, engaged individuals will be valuable connections to other citizen and government groups in the community. This section describes how the public may engage in implementing the storm water program.

2.2.2 Target Audience Awareness

The primary target audience for the Carnegie SVRA storm water program includes SVRA staff and visitors. Assessing awareness is achieved by surveying and/or testing the target audience.

Assessments were completed by 22 permanent SVRA staff in June of 2023. The assessment's level of difficulty was increased slightly in recent years to better gauge SVRA staff's understanding of more in-depth water quality issues. The 25-question assessment included questions related to sediment, trash, IDDE, PPGH, and general storm water awareness. Assessment results are presented in Table 2-1 below:

Table 2-1: 2023 Phase II Permit SVRA Staff Assessment Results

Question Category[1]	Average % Correct	Number of Questions
Sediment	91%	3
Trash	98%	3
IDDE	72%	8
PPGH	71%	7
General Storm Water Awareness	81%	4
All Questions	**79%**	**25**

NOTES:
(1) The IDDE, PPGH, and General Storm Water Awareness questions addressed specific water quality concerns associated with the topic, while simultaneously incorporating potential pollutants into the questions as well (e.g., sediment and trash).

The results suggest that the entire SVRA staff has a strong understanding of the water quality topics covered, despite the increased level of assessment difficulty.

Knowledge assessments were also completed by 133 SVRA visitors in 2023. The average score of the completed visitor assessments was 78 percent correct. Table 2-2 summarizes the subject of each assessment question, as well as the average percent correct for each question.

Table 2-2: 2022 Public Assessment Results

Subject of Assessment Question	Average % Correct
Carnegie's biggest storm water pollutant of concern	61.6
Where polluted runoff ends up after entering a storm drain	87.9
Recreational impacts associated with excess sediment in creeks	93.2
Environmental impacts associated with excess sediment in creeks	82.7
Environmental impacts associated with off-trail riding	86.4
Oil and grease impact on water quality *	38.3
How riders can help reduce sediment in water	91.7
Why trash is a storm water pollutant	97.7
Approved vehicle washing locations *	52.6
Proper disposal of waste from gray/black water tanks	89.5
Approved vehicle maintenance/repair locations *	21.1
How to prevent pathogens from entering nearby creeks *	67.7
Best practices when refueling OHV	86.5
Appropriate trash disposal practices	91.0
Approved motor oil disposal location	96.2
What to do in the event of an oil, gas, or waste spill	97.0
All Questions	**77.5**

* Multi-part question (i.e. needed to select all correct answers to receive the point)

Typically, the visitor survey is made available in-person, but due to COVID-19 the more recent surveys were posted on social media. SVRA visitors were incentivized to complete the assessment with a coupon for a free day of entry to the park.

The goal set by the Carnegie SVRA storm water program was to achieve an average visitor assessment score greater than 90 percent, which would indicate a high level of understanding of water quality issues. With this goal not met, Carnegie SVRA will continue to post and distribute educational materials in support of achieving a high level of visitor awareness. SVRA knowledge assessments will continue to be administered annually to measure target audience awareness of water quality issues. Assessment questions are reevaluated annually based on the previous year's results and updates are made in an effort to decrease confusion while continuing to accurately assess and educate the public. In the next reporting year (Year 11), the format of the multi-part assessment questions and their all-or-nothing approach for points will be revisited in an effort to more accurately depict public understanding of park practices.

2.2.3 Target Audience Actions

The actions of target audiences are evaluated by performing site investigations and by internally tracking storm water program progress (e.g., illicit discharges, RMA closures, sediment and erosion control evaluations). The progress of these storm water programs are discussed in the following sections.

2.3 Illicit Discharge Detection and Elimination Program

Carnegie SVRA developed and implemented an IDDE Program to detect, investigate and eliminate illicit discharges, including illegal dumping, into its MS4 system. Although some constructed drainage features do exist at Carnegie SVRA, there are no large storm drain systems to manage storm water runoff from the park. Runoff from Carnegie SVRA infiltrates, evaporates, or directly enters local water bodies. The IDDE Program helps identify locations with high risk of pollutant introduction, identify illicit non-storm water discharges, report illegal dumping and eliminate these issues.

2.3.1 IDDE Program Monitoring Locations

Five facilities at Carnegie SVRA were originally identified as areas that could reasonably generate an illicit discharge to a receiving water: the Maintenance Yard, the Ranger Station, the Store, the Campground, and the Water Treatment Facility. These five facilities were monitored quarterly as part of the IDDE Program from April 2013 to 2017, however in 2018 IDDE inspections shifted to include the Tesla Mine Complex and daily monitoring by park staff (see Section 2.3.2 for additional details). Pollutant source maps for the original five facilities from are included in Appendix C.

2.3.2 IDDE Source Investigation and Corrective Actions

Beginning in April 2013, monthly and post-storm event inspections were performed for the five facilities identified in Section 2.3.1. The forms used for monthly and storm event inspections can be found in Appendix D. In 2015, OHMVR updated their IDDE program procedure to better align with the Phase II Permit requirements, which identified that illicit discharges will be detected in one of two ways:

1. SVRA staff identification during normal day-to-day operations
2. Complaint-driven investigation from park visitor reports

Beginning in 2018, Carnegie SVRA began to implement a new IDDE procedure. IDDE inspections of the two hotspots identified at Carnegie, the Carnegie Maintenance Yard and the Tesla Mine Complex, were conducted quarterly along with the MS4 hotspot inspections. The four other facilities identified in Section 2.3.1 are not inspected on a set schedule; instead, any illicit discharges that may originate from these sites are identified by staff during normal day-to-day operations and are reported immediately to the Carnegie Environmental Scientist.

All 2022-2023 inspections have been compiled and are available in Appendix D. There was one “complaint” driven inspection during the Year 10 reporting cycle. One illicit discharge of an oil spill from vehicle traffic was documented on November 23, 2022. The oil spill was cleaned up on November 23, bagged for disposal and picked up by American Valley Waste Oil, Inc for hazardous waste disposal. The completed inspection form can also be found in Appendix D. Pollutant-related illicit discharge tracking will continue annually, with the goal of ensuring continued elimination of their occurrence.

2.3.3 IDDE Information Panel

In an effort to help prevent future illicit discharges, an IDDE information panel was created and is included in Appendix B. These information panels have been posted in areas where visitors commonly congregate, such as near the park store and on the campground ramadas. Storm drain markers have been installed throughout the park to remind visitors of the park's policy on illicit discharges: "No Dumping – Drains to Creek".

Figure 2-11: New Storm Drain Markers

2.4 Construction Site Runoff Control Program

Clearing, grubbing, and grading activities associated with construction sites can denude large areas of vegetation, which can expose and destabilize the underlying soils. Since the natural erosion control mechanisms are removed, sediment is more easily detached and entrained in surface water runoff. As such, runoff from construction sites can have a significant impact on the quality of the receiving waters.

Construction within Carnegie SVRA is typically required for facilities maintenance, and occasionally a new building will be constructed or an old building may be replaced. The Phase II Permit and State CGP specify that any construction project that is more than one acre is subject to the State CGP requirements. In addition, the Phase II Permit requires that contract language be developed to ensure that Carnegie SVRA staff or outside contractors comply with the State CGP requirements. Accordingly, a new clause was added to the Contractor Certification Clauses (CCCs) Form CCC-307 in Exhibit C, General Terms and Conditions, in the "Doing Business with the State of California" section (CA State Parks, 2007).

A runoff control program was developed and implemented to prevent construction site discharges. The program requires use of the Off-Highway Vehicle BMP Manual during construction and training for engineers and contractors. An inspection program was implemented by Carnegie SVRA staff using the Construction Site Management Program Checklist (Appendix E).

There were no construction projects greater than one acre in size during the 2021-2022 reporting period. As such, no construction-related inspections were performed.

2.5 Pollution Prevention/Good Housekeeping Program

2.5.1 High Priority Pollutants of Concern

Carnegie SVRA's Program Effectiveness Assessment and Improvement Plan (PEAIP) was developed and implemented as part of the Phase II Permit Year 2 compliance effort. It provides a focused evaluation of priority program elements and BMPs, ensuring that they are well targeted and assists in determining whether intended results are being achieved. Carnegie SVRA's storm water program addresses many pollutants of concern (POCs) and implements a wide range of BMPs; however, consistent with Provision F.5.h. requirements, the PEAIP presents a plan for assessing the effectiveness of a subset of prioritized BMPs that are focused on high priority POCs.

The PEAIP identifies sediment as the only high priority pollutant of concern for Carnegie SVRA. The potential sources of sediment within the SVRA include park activities, rehabilitation activities, and construction. Carnegie SVRA employs several erosion control methods to manage sediment throughout the park, including sediment basins, rock check dams, and BMPs such as rolling dips. Trail evaluations and BMP inspections occur annually and determine the maintenance schedule for the BMPs and trails.

2.5.2 Pollution Prevention and Good Housekeeping Practices

Pollution Prevention and Good Housekeeping (PPGH) practices serve as Carnegie SVRA's first line of defense in preventing potential negative impacts to downstream water bodies. These practices help prevent discharges from Carnegie SVRA facilities and activities, which ultimately help eliminate sources of potential pollution. Knowing the location of facilities and activities with a high probability of potential pollutants and inspecting them regularly are key components of implementing this part of the program. Similarly, if repairs are needed, they are prioritized for maintenance. The Phase II Permit requires that an annual review and assessment be performed of all owned or operated facilities to determine their potential impact to surface waters. Each year, the Carnegie SVRA facilities listed below are reviewed and assessed for issues that may potentially increase their negative impact to surface waters.

- Campgrounds
- Hill Climb Facility
- Maintenance Yards
- District/Sector Office
- Tesla Mine Complex

Based on the facility assessment, those facilities that have a high potential to generate storm water and non-storm water pollutants are classified as hotspots. A SWPPP is developed for each facility with a high potential to generate storm water and non-storm water pollutants (i.e., a hotspot) that is in a high priority site, as identified in the Facility Assessment. The hotspots identified as part of the Facility Assessment are visually inspected quarterly to ensure that materials and equipment are clean and orderly, to minimize the potential for pollutant discharge into the MS4 system, and to ensure implementation of BMPs (see Appendix F for hotspot inspection form). To date, the only two hotspots covered under the Carnegie SVRA MS4 permit are the Tesla Complex and the Carnegie SVRA Maintenance Yard.

The inventoried facilities that are not identified as hotspots are to be inspected at least once per Phase II Permit term (once every five years until rescinded by the SWRCB, or until a new Order is issued). These facilities are evaluated annually at Carnegie SVRA, typically in June of the reporting period (see Appendix F for Year 10 Annual Facility Assessment Forms). The facilities that are annually evaluated for their potential to discharge pollutants to the creek are the campgrounds, the hill climb special event area, the District office, as well as the two hotspots, the Carnegie maintenance yard and the Tesla mine complex.

In the current reporting period, a new oil containment system was installed outside of the Carnegie maintenance shop. Prior to this new system, oil was stored on a large yellow spill containment system in the shop behind the mechanic's toolbox. The new oil containment building is fireproof with its own spill containment system. This building can store several 55-gallon drums of oil with connections to a pneumatic air system that delivers oil into the shop through a hose. This new oil containment system creates more space and reduces the chance of an oil spill in the shop since oil no longer needs to be stored in the shop.

Figure 2-12: New Oil Containment System at the Carnegie Maintenance Shop

An electric vehicle (EV) charging station was installed during the 2018 reporting period to provide for the emerging electric motorcycle market and the riders that use them in the park. Several charging stations were also installed near the Diablo Range District Office down the road from the park in 2020. In 2022, an updated EV charging system was installed at the park entrance that now services two vehicles on a trickle charge (Figure 2-13). Visitors may access this charging station while at the park for no additional cost.

Figure 2-13: Newly Installed EV Charger near the Carnegie SVRA Ranger Station

2.6 Post-Construction Storm Water Management Program

Site design measures are required for all projects that create and/or replace (including projects with no net increase in impervious footprint) between 2,500 and 5,000 square feet of impervious surface, including detached single-family homes that are not part of a larger plan of development.

"Regulated" projects, which include projects that create and/or replace 5,000 square feet or more of impervious surface, must incorporate site design measures, source control, runoff reduction, storm water treatment and baseline hydromodification management to the extent feasible.

There were no projects that met the criteria listed above during the Year 10 reporting period.

2.7 OHV Trails and Facility Management

2.7.1 Site Background

Trail systems have the potential to alter a landscape's storm water drainage patterns. These alterations can lead to higher rates of erosion and have a negative effect on storm water quality. For this reason, careful consideration must be given to trail system design and layout. Once trails are established, careful monitoring is warranted to ensure excessive erosion does not occur.

While most of the SVRA's facilities are found within the flood plain of Corral Hollow Creek, the trail system is primarily located in the steep hills to the south of the creek. These hills have four well-defined sub-watersheds, which drain to Corral Hollow Creek. Several smaller drainages proceed to Corral Hollow Creek, typically in the form of sheet flow. The trail system itself is

divided into two areas: open riding and trails-only. Approximately half of the trail system is open riding, which typically consists of grassland habitat with durable clay soils. While park visitors are generally free to travel throughout the open riding area, many portions, including the hill slopes adjacent to the valley floor, have been fenced and closed in order to maintain vegetation cover and limit erosion. The other half of the park is the trails-only area, which consists mostly of coastal scrub, oak woodlands and more friable sand/loam soils. Here, visitors are required to stay on established trails and fencing, along with signage and law enforcement actions, is used to increase compliance.

The trails are categorized as primary, secondary, tertiary, and voluntary. The primary trails are accessible by all sizes of vehicles including emergency vehicles. The secondary trails are accessible to All Terrain Vehicles (ATVs) and motorcycles. The tertiary trails are accessible by motorcycle only. Lastly, the voluntary trails are trails that have been created by unauthorized OHV recreation. Voluntary trails are blocked off or rehabilitated upon detection to prevent these trails from being used further. The primary and secondary trails receive annual maintenance, which includes grading, out sloping, installing and reconditioning of BMPs, removing outside berms and pruning vegetation. Tertiary trails are maintained as needed or as determined by annual trail evaluations and are maintained by hand tool only as equipment cannot access these trails.

Exclusion of OHV activities occurs throughout the park. Access for OHV use has been restricted in several areas of the park in order to improve storm water quality and protect natural and cultural resources.

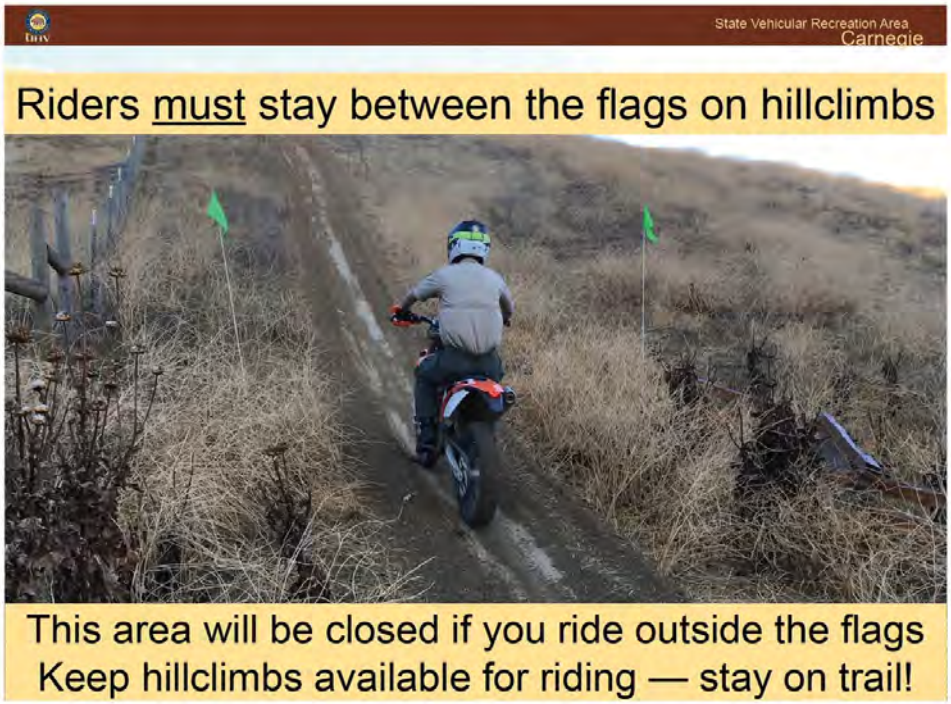


Figure 2-14: Hill Climb Information Panel

2.7.2 Trails Program

Carnegie SVRA's Trails Program aims to reduce sediment discharges resulting from park activities by creating sustainable, well-designed trail systems, and rehabilitating erosive areas of the park. The park is divided into Management Units and Resource Management Areas, as described in Section 2.7.4. The program includes the annual evaluation and classification of trail conditions throughout the park.

2.7.3 Implementing the SWMP Tactics

The tactics described below are utilized to prevent erosion and ensure successful erosion control to the MEP.

Erosion Control

- Reduce trail density
- Break hydrological connections
- Reduce the velocity of concentrated flows
- Develop sustainable trails
- Educate the OHV user to stay on-trail

Sediment Control

- Increase vegetation cover near drainages
- Slow and settle storm water in the sub-tributaries

2.7.4 Management Units and Resource Management Areas

Management Units are discrete zones established to better plan and implement management activities of areas that share common characteristics. There are ten Management Units at Carnegie SVRA, divided by sub-watersheds, that make up the SVRA (Figure 2-15). The Management Units are divided into smaller areas known as Resource Management Areas (RMAs) that allow Parks staff to make more refined management decisions based on known resources, topography, soil type, and other factors.

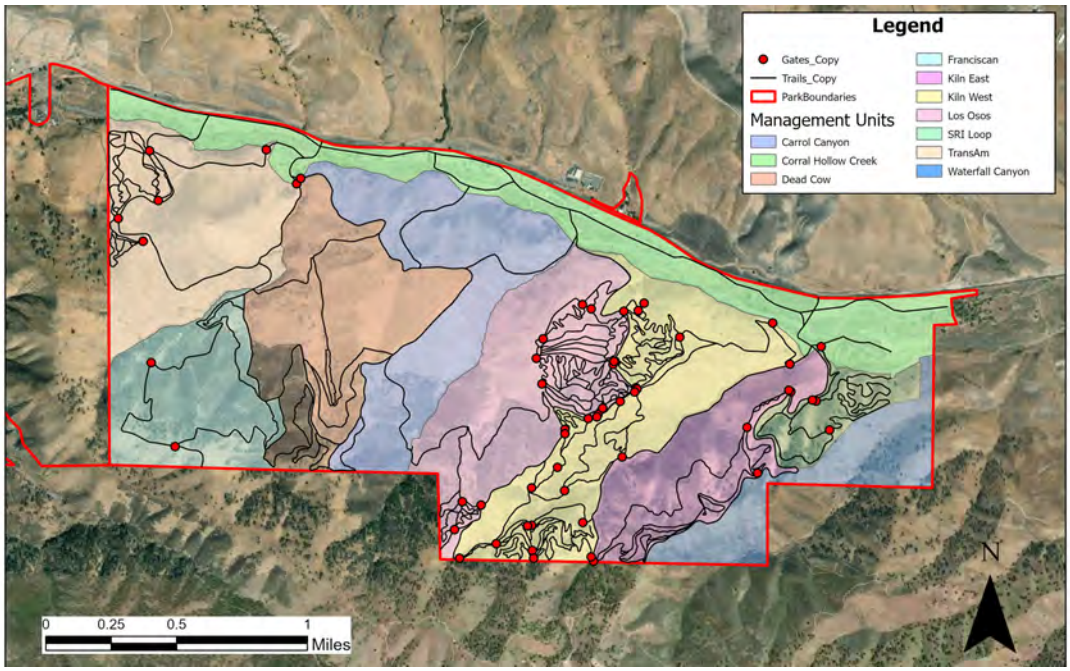


Figure 2-15: Map of Carnegie SVRA Management Units

RMA Rehabilitation Projects

Rehabilitation of an RMA begins with a scoping meeting that identifies the problems and goals for each project. The project planning process takes into consideration several items, including trail layout, connectivity, emergency access, user interest, enforcement strategy, education methods, buffer zones and a timeline for completion of the project.

The on-the-ground rehabilitation work begins with identifying any trails that have proven to be sustainable and that do not convey high concentrations of storm water elsewhere. These trails are usually incorporated into the RMAs trail network. Trails that have been identified as erosive per the soil conservation program dataset are eliminated from the trails network and the area restored. Eliminating these trails from the network often involves using heavy equipment to place soil back on the hillside and bring the hillside back to grade. Once in place, the soil is protected using BMPs from the OHV BMP manual. Typically, the BMPs used are a combination of straw wattles, which prevent soil erosion, water runoff and control sediment, and hydromulch, which protects the soil from precipitation. If the hydromulch machine is unable to access the area, then straw or native seed is used to cover the bare soil. Staff is trained in proper implementation techniques and the work is supervised by experienced rehabilitation specialists. These efforts result in an overall reduction in trail density for the area, along with a reduction of hydrological connections, two tactics outlined in this program. Special attention will be given to developing buffer zones near drainages by limiting trail density and soil disturbance within these areas to provide adequate biofiltration (sediment control). RMA closures for rehabilitation can be monitored by the public on the Carnegie website, on social media, and on the bulletin board near the main park entrance kiosk (Figure 2-16).

Figure 2-16: Bulletin Board for RMA Closures

When rehabilitation is complete, the focus turns toward providing sustainable trail access. Over the past several years, park personnel have received classroom and field training from Trails Unlimited, an enterprise of the U.S. Forest Service, on proper trail design and construction to minimize impact on the soil and habitat. This is achieved primarily by preventing accumulation of storm water using breaks-in-grade BMPs as described in the OHV BMP Manual, which change the elevation to a positive grade at regular intervals to divide storm water volumes into lower concentrations. These rehabilitation methods have been used in the park for several years, exhibiting high levels of success.

Table 2-3 summarizes the current rehabilitation efforts for each Management Unit and RMA. Figure 2-17 illustrates the RMAs that have been established as of June 2023 and function as described below.

Table 2-3: RMA Rehabilitation Status

Management Units	RMAs	Rehab Efforts Phase		
		Planning	Implementation	Complete
Corral Hollow Creek	MX Track/ 4x4 Area			x
	Kids Tracks Area			x
	ATV Track Area			x
	Remaining Areas		x	
SRI Loop	Roadrunner			x
	SRI Loop			x
	Remaining Areas	x		
Kiln East	Raven			x
	Kiln East			x
Kiln West	Black Bear East			x
	Black Bear West			x
	Through-cut			x
	Bunkhouse			x
	Harrison Hill			x
	The Knoll			x
	Kiln West		x	
	Remaining Areas	x		
Los Osos	Seven Trails			x
	Los Osos Climb			x
	Phase 3			x
	Remaining Areas	x		
Carrol Canyon	Hillclimb Facility	x		
	Remaining Areas	x		
Dead Cow Canyon	Remaining Areas	x		

Management Units	RMAs	Rehab Efforts Phase		
		Planning	Implementation	Complete
Franciscan	West Franciscan		x	
	Franciscan	x		
	Remaining Areas	x		
TransAm	Burned Pottery			x
	Remaining Areas	x		

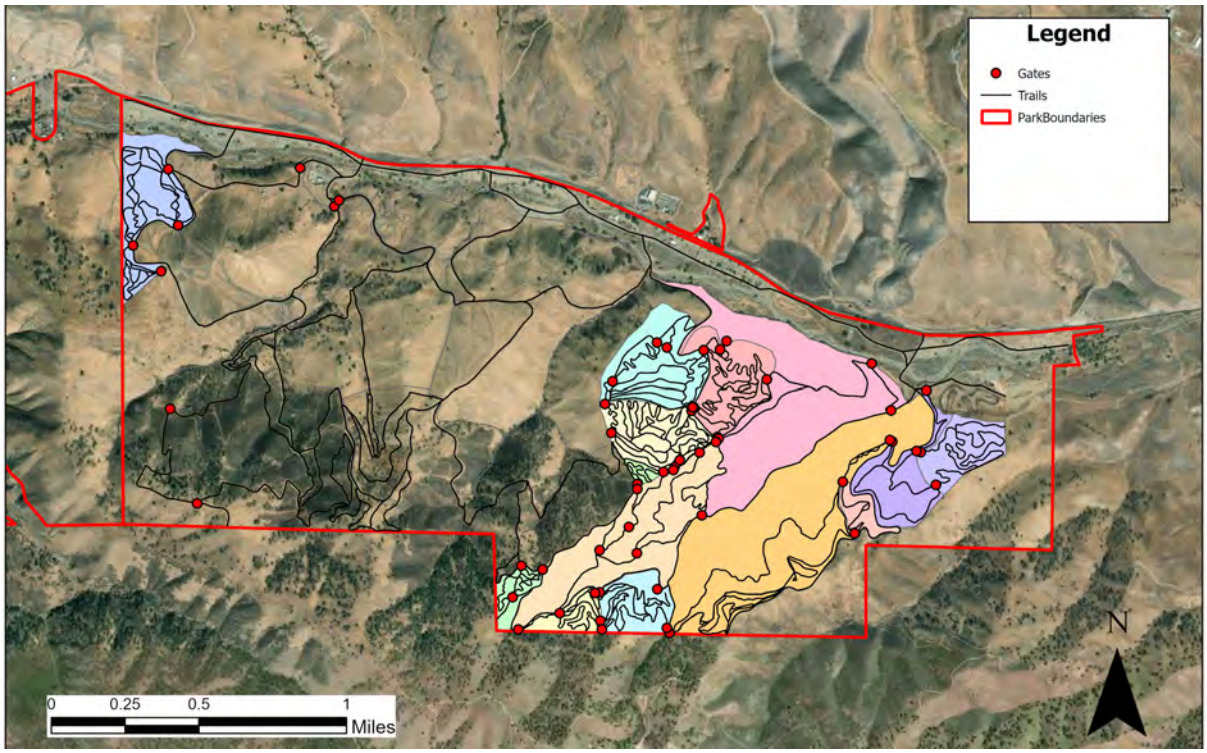


Figure 2-17: Map of Rehabilitated RMAs as of June 2023

The most innovative approach to the trails program has been a redesign of the methods used to protect the trails and restored areas. In the past, drift fencing was the primary tool to keep riders off a rehabilitated area. This method was re-evaluated and now each rehabilitated RMA is surrounded by perimeter fencing with access gates at the entry points. If voluntary trails are created, the access gates are closed for a predetermined amount of time to allow staff to make repairs and to reinforce the "trails only" message. The progress of this methodology is discussed in Section 3.2.

Figure 2-18: Signage for Trail Closures

RMA Rehabilitation Education and Enforcement

The public education and outreach component of the trail program includes working with the public through the volunteer trail patrol and the CAT, handing out brochures, and drafting interpretive panels. The volunteer trail patrol and the CAT assist with trail design and communicating to the public the need to stay on-trail.

After the rehabilitation work is completed and the area is open to the public, the RMA is inspected by park staff weekly during red sticker season and every other week during green sticker season in an effort to track and prevent off-trail riding. Park staff completes a Trail Inspection Form after each assessment of the trails. An example of the Trail Inspection forms can be found in Appendix G. Off-trail violations result in temporary closure of the entire RMA and citation(s) are given to the offender(s) when possible. This is critical to ensure the areas do not relapse into eroded hillsides and rutted trails. The violations that resulted in the closure are highly publicized so that users understand the consequences of riding off-trail. This publicized message is inclusive of photos and details of the damage and is displayed on the bulletin boards at the kiosk, as well as posted on the Carnegie website and social media.

RMA Rehabilitation Progress

As shown in Table 2-3, approximately 53.1 percent of Carnegie SVRA is managed as a completed (or near complete) RMA. If public OHV access is allowed in an RMA, it is operated as a trails-only facility. A map of the established RMAs as of June 2023 is included in Figure 2-17. Each of these areas is inspected on a regular basis to ensure strict trails-only activity. When instances of non-compliance are found, the area is closed in most instances.

The number of documented off-trail riding incidents in a given reporting year provides a measure of target audience (i.e., rider) actions. In 2016-2017, 118 off-trail incidents were documented, compared to 3 documented incidents in 2015-2016. This increase was primarily attributed to more frequent trail inspections and an expansion of available riding trails. In 2017-2018, SVRA

staff elected to modify the measure of rider actions by tracking the number of RMA closures resulting from off-trail incidents, rather than the number of incidents themselves. RMA closures allow areas damaged by off-trail riding to recover, and alert riders of the consequences associated with riding off-trail. There were 34 RMA closures documented in 2017-2018, 45 RMA closures in 2018-2019, 47 RMA closures in 2019-2020, 87 RMA closures in 2020-2021, and 89 RMA closures in 2021-2022. Year 10 (2022-2023) was an especially wet year (compared to previous years), which resulted in 31 RMA closures and several park-wide closures, as well as fewer riding days. Closures will continue to be tracked in this manner, with a goal of observing a decrease over time.

2.8 Summary of Current Projects

2.8.1 Road Reconstruction Project

One of the recommendations from the Corral Hollow Watershed Assessment (CHWA) was to redesign the roads within the park to reduce their erosion potential. The CHWA identified past, present, and future sources of erosion from the road and trail reaches, stream crossings, and the associated gullies within the park. The researchers evaluated the relative quantities of sediment lost, the probability of future erosion, the likelihood of sediment delivery to the creek, and the feasibility and chance of successful treatment. The researchers used a “geomorphic” approach to the inventory that was developed by the National Park Service and California State Parks. Once the issues were identified, rehabilitation measures were developed for each inventoried feature. These rehabilitation measures were designed to provide economical and feasible solutions to mitigate current erosion and sediment mobilization issues while preventing potential future issues.

The road and trail reconstruction measures are intended to be cost effective, reduce maintenance, increase seasonal access for staff and most importantly, reduce the down slope impacts of improper road and trail drainage (gullies, landslides, and sediment delivery). The recommended rehabilitation efforts would be implemented by Carnegie SVRA staff, equipment contractors, and/or Trails Unlimited. California Conservation Corps (CCC) members, California Department of Forestry and Fire Protection (CalFIRE) inmate crews and other volunteer groups may also be included in the rehabilitation process to provide an additional workforce or assist with public education and outreach.

Many of the objectives are aimed at reducing the overall soil disturbance and hydrological connections that currently exist. Breaking these connections will rely on a number of methods including out sloping, rolling dips, reducing trail width, and reroutes. The improvements will be made to 8.1 miles of roads along with several stream crossings.

This project has been funded as a capital outlay improvement and the CEQA work has been completed (State Clearinghouse #2011092030). Construction is scheduled to take place in Summer of 2024.

2.8.2 Bunkhouse Bridge

The purpose of the Bunkhouse Bridge project was to implement BMPs to improve storm water quality within the Bunkhouse RMA. The RMA is accessible via Kiln Canyon Trail, but requires that OHV users ride through a drainage channel to access. To avoid the negative impacts on water

quality, the Trails Team installed a bridge to allow riders to get across the drainage area without encountering the water below. The bridge was initially installed in November of 2022 with no side railings, since the bridge was not higher than 3 feet off the ground per OSHA standards. After the severe winter storms, the drainage under the bridge had incised and was now over 3 feet off the ground, prompting the installation of side railings. This bridge is the first of its kind at Carnegie SVRA and is only open to motorcycles.

Figure 2-19: Bunkhouse Bridge with Railing (Left) and without Railing (Right)

2.8.3 Kiln West Erosion Repair

The Kiln West Erosion Repair project is a three-phase rehabilitation project to repair a hillside area that was burned in the 2019 Hollow Fire to prevent potential soil loss and improve the habitat for wildlife. The project involved adding fill to return the hillside to grade, then installing storm water BMPs on rehabilitated areas after repairs were conducted. Phase 3 of the project was completed during Year 9, while Phase 1 and Phase 2 were completed during Year 10. The project area was surveyed for sensitive resources prior to the start of the project and the project area was surveyed each morning by the Environmental Scientist prior to the start of construction activities each day. Construction biomonitors were trained and remained on site during construction activities, and the Environmental Scientist was on-call for consultation during construction activities. Worker awareness training was held for each employee who worked on the project. Biomonitoring notes are available in Appendix E. The project included the installation of stormwater BMPs such as installation of straw wattles and hydromulch and native grass seed application on project areas once they have been rehabilitated for each of the three phases.

Figure 2-20: Kiln West Hillside Before (Left) and After (Right) Rehabilitation Efforts

2.8.4 Tesla Mine Complex

The Tesla Mine Complex (122 acres) current condition consists of historic industrial mine sites, including disturbed soils, tailing piles, adits/mine shafts, and the remnants of towns constructed to support the former mining activities. The site no longer has mining activities and is closed to the public. In order to limit erosion on site, several temporary BMPs have been installed over the last several years including gravel bag check dams and silt fences.

Previously, portions of the waste rock piles were covered with compost and hydromulch. The compost application that was implemented in late 2013 continued to support vegetation even after a fire had burned portions of the composted area. An additional 1.42 acres of tailing was covered in compost during the 2019 reporting cycle. In addition, approximately 600 feet of silt fence was installed to help capture sediment from entering the creek. Longer term BMPs are still being evaluated and scoped.

In June 2022 (i.e., during the previous reporting cycle), there was another fire that burned the waste rock piles. The BMPs were replaced after the fire and inspections continued quarterly. The rock piles continue to support vegetation.

Figure 2-21: Waste Rock Piles (May 2023)

Because the Tesla Mine Complex is near the perimeter of the park, the public often uses the area for illegal dumping of trash. In December 2022, State Parks teamed with Alameda County Public Works to hold a roadside clean-up of the Tesla property. Over 15 tons of trash were removed from the side of Tesla Road and from the perimeter of the Tesla Mine property.

3 Progress of the Carnegie SVRA Storm Water Program

3.1 Short-Term Progress

The Carnegie SVRA storm water program completed all 2022-2023 compliance requirements associated with the Phase II Permit as described in the Effectiveness Assessment (Appendix A), as well as the 12th year of the SWMP implementation. The purpose of the SWMP is to reduce or eliminate potential pollutant discharges from Carnegie SVRA using site-specific structural and non-structural BMPs to protect and improve water quality, while also providing high quality Off-Highway Vehicle (OHV) recreational opportunities. The SWMP implementation, which is often performed in conjunction with Phase II Permit compliance activities, includes the following:

- Education and Outreach Program;
- Public Involvement and Participation Program;
- Illicit Discharge Detection and Elimination Program;
- Construction Site Runoff Control Program;
- Pollution Prevention/Good Housekeeping Program;
- Post-Construction Storm Water Management Program;
- OHV Trails and Facilities Management;
- Program Effectiveness Assessment and Improvement;

- Total Maximum Daily Loads Compliance Requirements; and
- Online Annual Reporting.

Short-term progress was demonstrated by the storm water program's implementation through the successful completion of Phase II Permit compliance and SWMP implementation activities. In addition to Phase II Permit compliance, the following SWMP activities have been completed or initiated, and are continuing to have a positive impact on short-term progress.

- Policy Updates
    - Wet Weather Trail Closures – use of minimum closure times, cumulative precipitation measurements over specified durations, and more stringent re-opening criteria to determine the necessity of trail closures.
    - Limited Vehicle Access in Riparian Areas (Corral Hollow Creek) – Access is limited to five crossings (i.e., one bridge and four hardened low-water crossings) to allow for the re-establishment of riparian vegetation and habitat.

3.1.1 Storm Water Monitoring Data

The results of storm water monitoring for turbidity in nephelometric turbidity units (NTU) and total suspended solids (TSS) are included below in Table 3-1 and Table 3-2, respectively. This data can be used to evaluate the effectiveness of the BMPs chosen as part of the strategy.

There were eleven storm events during this reporting period for which storm water monitoring was attempted. It is worth noting that that sampling only occurs when sufficient flow is observed and when it is safe to do so. During the 103-day closure of the park, storm water sampling was not conducted since the park was not open to visitors. Lab analysis of water samples can be viewed in Appendix H. See Figure 3-1 for sampling locations.

Table 3-1: Turbidity (NTU) Data for BMP Monitoring Effectiveness

Date	CHC In	Ty 1	Ty 2	Car 1	Car 2	Kiln1	Kiln2	CHC out
09/19/22*	-	-	-	-	-	-	-	-
09/21/22*	-	-	-	-	-	-	-	-
11/08/22	-	100,000	-	100,000	484	6,510	-	-
12/02/22*	-	-	-	-	-	-	-	-
12/04/22	-	-	-	-	124	-	-	-
12/12/22	-	-	300	-	117	-	931	808
12/27/22	-	100,000	4,780	4,830	4,090	3,800	2,680	9,050
12/28/22	-	-	209	-	-	-	-	-
12/29/22	-	-	238	-	-	-	-	-
12/30/22	-	-	112	-	-	-	-	-
12/31/22	510	943	914	524	351	4,440	4,510	418

* No data at any sampling location was able to be collected.

Table 3-2: Total Suspended Sediments (TSS) Data for BMP Monitoring Effectiveness

Date	CHC In	Ty 1	Ty 2	Car 1	Car 2	Kiln1	Kiln2	CHC out
09/19/22*	-	-	-	-	-	-	-	-
09/21/22*	-	-	-	-	-	-	-	-
11/08/22	-	4,580	-	6,490	267	2,490	-	-
12/02/22*	-	-	-	-	-	-	-	-
12/04/22	-	-	-	-	34.8	-	-	-
12/12/22	-	-	232	-	103	-	233	896
12/27/22	-	6,250	2,280	9,320	2,120	2,620	1,860	8,560
12/28/22	-	-	138	-	-	-	-	-
12/29/22	-	-	71.9	-	-	-	-	-
12/30/22	-	-	246	-	-	-	-	-
12/31/22	11,700	14,200	619	9,960	3,660	7,860	1,760	5,230

* No data at any sampling location was able to be collected.

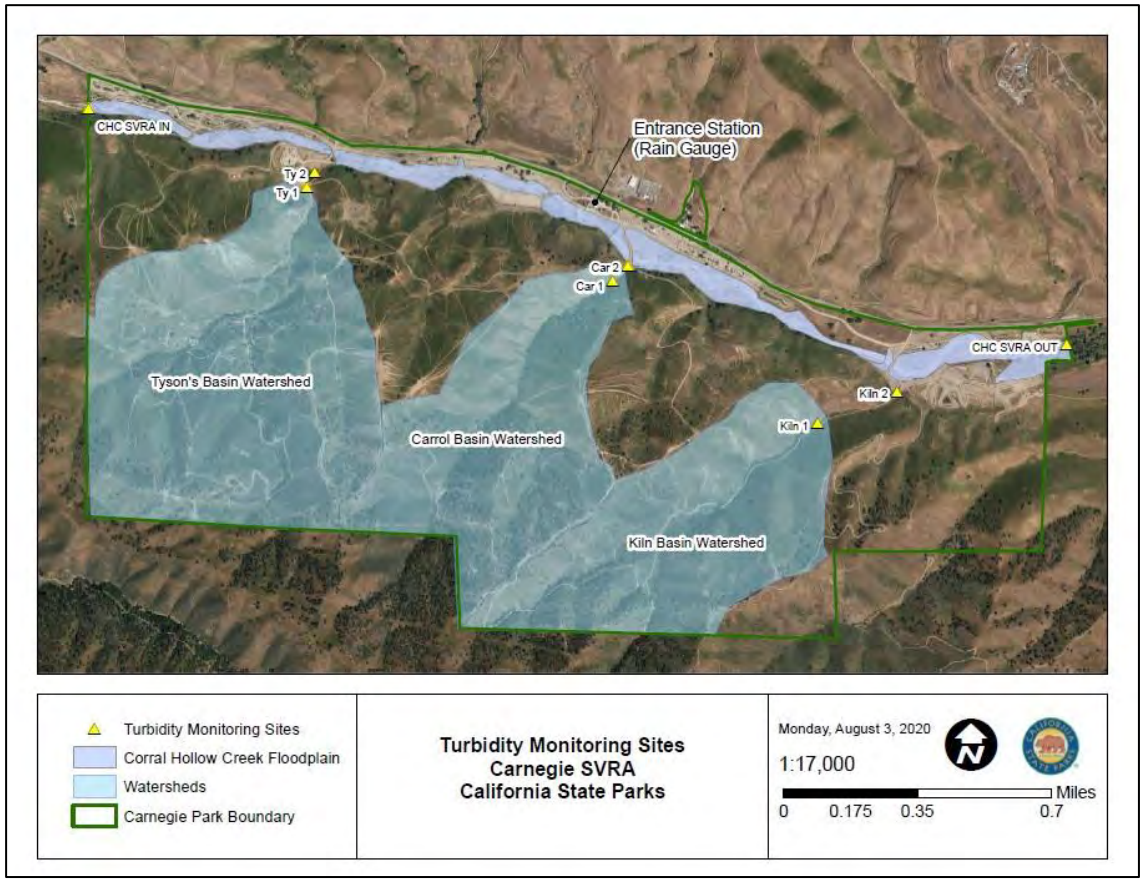


Figure 3-1: Turbidity Monitoring Sites

3.1.2 Wet Weather Trail Closures

A quantitative, cumulative precipitation measurement is used to trigger a park closure at Carnegie SVRA. Using hydrological models and historic conditions, the following thresholds were determined to be representative of when soil becomes saturated enough for sheet flow to occur.

- More than 0.30 inches within 12 hours
- More than 0.50 inches within 24 hours
- More than 0.65 inches within 48 hours

The SVRA's trails are closed if any of the above thresholds are realized, measured using the rain gauge at the entrance station. Similarly, trails remain closed as precipitation continues to be above the threshold.

The trails, or portions of the trails, are re-opened only when **all** of the following conditions are met, which is determined at the monitoring locations:

- Site conditions are safe;
- No environmental or resource concerns exist;
- Storm water BMPs are functional and in good condition (e.g., rolling dips, basins);
- The trails have been closed for at least 12 hours; and
- The trail slopes have dried sufficiently and soils are stable enough to support OHV use.

Wet weather closures occurred seven times during this reporting cycle (see Table 3-3). Wet weather resulted in full or partial day closures on 119 calendar days. There were 16 calendar day closures prior to December 31, 2022, when heavy rains from the winter atmospheric river storms prompted a full park closure that lasted for 103 days. The park received 2.36 inches of rain on December 31, 2022, creating sheet flows on the steep slopes of the hills that caused landslides and mud flows and strong flows in Corral Hollow Creek that ate away at the banks of the creek and inundated the flood plain in the park. The precipitation total for the 2022-2023 reporting cycle was 20.06 inches.

Table 3-3: Wet Weather Closures

Area	Closed	Opened
All Hills	Monday, September 19, 2022	Wednesday, September 21, 2022
All Hills	Tuesday, November 8, 2022	Wednesday, November 9, 2022
All Hills	Thursday, December 1, 2022	Friday, December 2, 2022*
All Hills	Sunday, December 4, 2022	Tuesday, December 6, 2022**
All Hills	Saturday, December 10, 2022	Tuesday, December 13, 2022
All Hills	Tuesday, December 27, 2022	Monday, April 10, 2023
Entire Park	Saturday, December 31, 2022	Thursday, April 13, 2023

* West Hills, which are west of Carrol Canyon, remained closed on Saturday, December 3, 2022

**West Hills remained closed on Tuesday, December 6, 2022

3.2 Long-Term Progress

Long-term progress of the program demonstrates a determinate shift in SVRA staff and visitor behavior and a measurable reduction in sediment discharges from the SVRA. In order to monitor the progress of the program and effectiveness of the BMPs, the SWMP includes a series of

measurable goals established for each Minimum Control Measure. Measurable goals are intended to gauge the effectiveness of the SWMP and specifically selected for each BMP. They consider the site conditions, climate, and land use activities.

As a Phase II permittee, Carnegie SVRA anticipates that the completion of recurring compliance activities will aid in achieving long-term water quality improvement goals. In addition, the following long-term program activities have been initiated as part of the SWMP implementation.

- Implementing the Trails Program – Delineates the park into RMAs, and includes erosion and sediment control installations, vegetation rehabilitation, rider education, reduction of trail density, increase of vegetation, and enforcement actions.
- Trail Redesign and Sustainability – Aims to redesign trails with the goal of reducing overall soil disturbance and breaking hydrologic connections.

3.2.1 Annual Trail Condition Evaluations

Carnegie SVRA's Trails Program aims to reduce sediment discharges resulting from park activities by creating sustainable, well-designed trail systems, and rehabilitating erosive areas of the park. RMAs, park sub-areas generally delineated by sub-watershed boundaries, have been designated throughout the park to help manage the implementation of the Trails Program. The program includes the annual evaluation and classification of trail conditions throughout the park. All trails are assigned a rating as follows:

- **Green** - Indicates the trail is in good condition and the water features (used to reduce erosion) are functioning properly.
- **Yellow** - Assigned when the water features or trail tread are beginning to show signs of deterioration. (***Note: This category was expanded in 2016-2017 to also include minor deficiencies that warrant attention.***)
- **Red** - Indicates the trail has deteriorated and its water features are no longer functioning as designed.
- **Not Rated** - Trails that were not rated in the past reporting year.

Trail condition is an important metric for evaluating sediment management because poor trail condition is a leading source of erosion in the SVRA. The overall goal is to observe an increase in Green trail ratings and a reduction in the percent of Yellow and Red ratings. The park-wide trail ratings for 2015-2016 to 2022-2023 are presented as percentages in the Table 3-4 below.

Table 3-4: Annual Trail Ratings

Trail Rating (Color)	Year 3 Ratings (2015-16)	Year 4 Ratings (2016-17)	Year 5 Ratings (2017-18)	Year 6 Ratings (2018-19)	Year 7 Ratings (2019-20)	Year 8 Ratings (2020-21)	Year 9 Ratings (2021-22)	Year 10 Ratings (2022-23)
Green	43%	27%	22%	12%	49%	70%	77%	49%
Yellow	34%	57%	50%	62%	44%	18%	22%	14%
Red	22%	16%	13%	7%	7%	1%	1%	11%
Not Rated	0%	0%	15%	19%	0%	10%	0%	26%

It is important to note that Year 10 (2022-2023) was an extremely wet year, which left many trails damaged and/or unsafe and therefore inaccessible (i.e., resulting in a higher number of not rated trails). While the trail ratings are not solely a representation of soil loss because there are other factors that are measured simultaneously, they provide a useful general overview of trail conditions that can be used to measure progress over time.

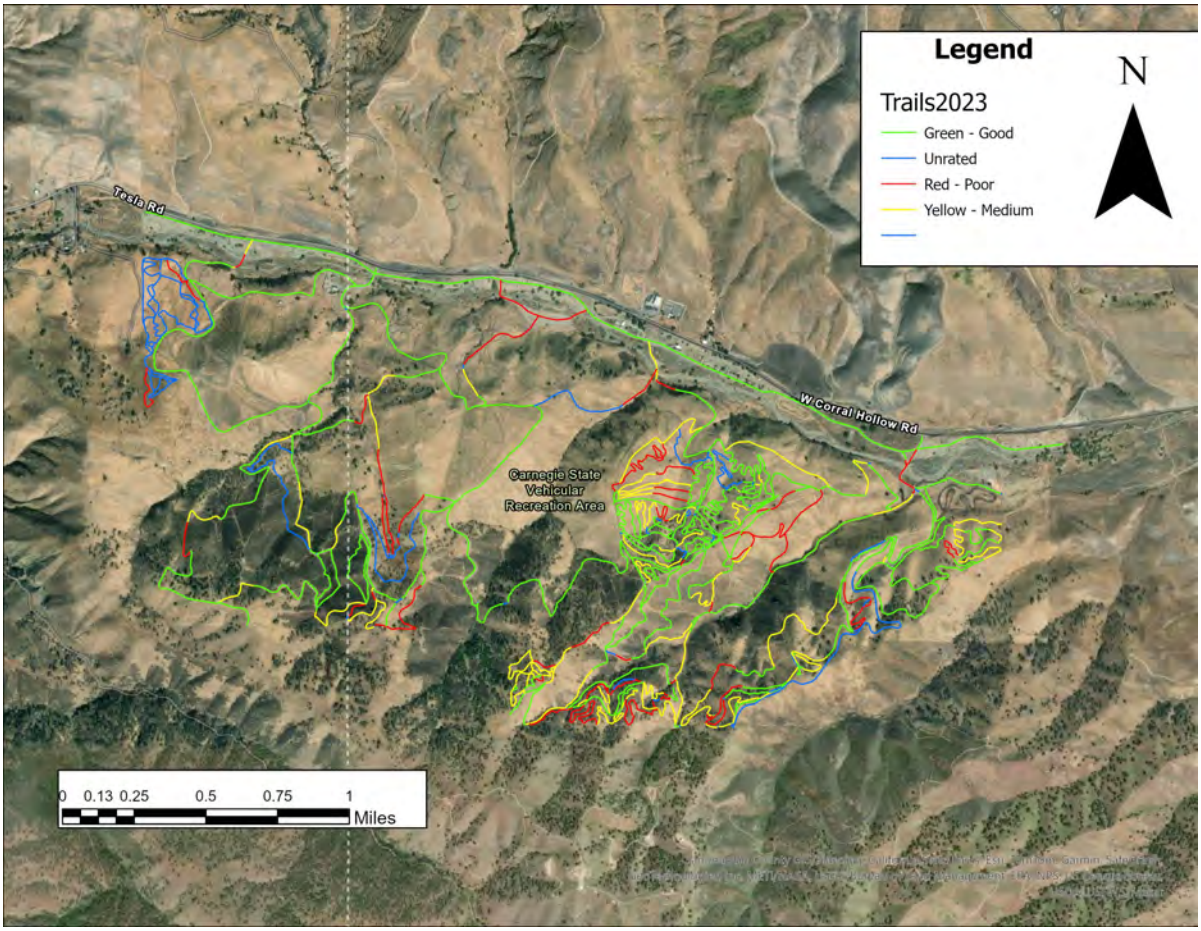


Figure 3-2: Annual Trail Evaluations

3.2.2 Sediment Basin Maintenance

Sediment basins are typically cleaned annually to remove accumulated sediment and other material. Environmental permits, which are required to perform maintenance activities in the basins, were not issued in time to remove accumulated sediment in Years 4 or 10.

The amount of material deposited in the sediment basins is a function of rainfall intensity and duration. It does not necessarily reflect the effectiveness of upstream erosion and sediment controls (i.e., a single, short-duration, high-intensity storm can deposit the same volume of sediment in a basin as numerous longer, low-intensity storms). This measurement solely indicates how much material the basins prevented from discharging to receiving waters. Rainfall totals and corresponding basin material removal volumes are presented in Table 3-5 below.

Table 3-5: Rainfall Totals and Sediment Basin Material Removal Volumes

Measurement	Year 3 (2015-2016)	Year 4 (2016-2017)	Year 5 (2017-2018)	Year 6 (2018-2019)	Year 7 (2019-2020)	Year 8 (2020-2021)	Year 9 (2021-2022)	Year 10 (2022-2023)
Rainfall Total (inches)*	16.10	22.00	11.00	14.45	7.71	5.46	11.33	20.06
Volume of Material Removed from Basins (cubic yards)	8,010	N/A**	3,311	6,265	2,594	2,126	1,290	N/A**

* Rainfall totals are measured from July 1st to June 30th
** Environmental permits not issued

3.2.3 Sediment and Erosion Control BMP Evaluations

Evaluations of sediment and erosion control BMP installation and performance began with the 2016-2017 Effectiveness Assessment. While deficiencies are not necessarily an indicator of improper installation (e.g., damage from heavy storms or off-trail riding are probable), the high percentage of properly installed and functional BMPs demonstrates that SVRA staff are continuing to perform installations correctly. The overall results for the 2022-2023 installation evaluations are presented in Table 3-6.

Table 3-6: Evaluation Summary of BMP Installations

BMP Installation Evaluation Criteria	Year 4 Ratings (2016-17)	Year 5 Ratings (2017-18)	Year 6 Ratings (2018-19)	Year 7 Ratings (2019-20)	Year 8 Ratings (2020-21)	Year 9 Ratings (2021-22)	Year 10 Ratings (2022-23)
Properly installed, continuing to function as intended	**62%**	**78%**	**81%**	**71%**	**68%**	**71%**	**46%**
Minor deficiencies identified	**5%**	**10%**	**9%**	**15%**	**11%**	**13%**	**16%**
Not installed correctly, or not functioning properly. Replacement required.	**4%**	**10%**	**6%**	**9%**	**8%**	**14%**	**13%**
Not Rated	**29%**	**2%**	**4%**	**4%**	**14%**	**2%**	**25%**

The 2022-2023 year was an especially wet year, which left many trails damaged and/or inaccessible (i.e., resulting in a higher number of not rated trails). BMP evaluations will continue to be performed annually, with the goal of observing high percentages of properly installed BMPs each year. The form used to evaluate trails can be found in Appendix I.

3.2.4 Trash Assessment

On June 1, 2017, Carnegie SVRA received a Water Code Section 13383 Order (13383 Order) to select and submit a compliance track to comply with the Trash Amendments.

The 13383 Order required that permittees identify the locations and land uses that generate substantial amounts of trash within their facility, as well as select and submit a compliance track by September 1, 2017. Carnegie SVRA selected the Track 2 compliance option in a letter to the SWRCB submitted via the Storm Water Multiple Application and Report Tracking System website. Since Track 2 requires a combination of controls that will achieve Full Capture System Equivalency,

the submittal also included preliminary jurisdictional maps that identified proposed park-specific Priority Land Uses (PLUs), as well as the MS4 network that conveys the discharges from those land uses. The 13383 Order also specified that by December 1, 2018, permittees that selected the Track 2 compliance option must submit updated jurisdictional map(s) and an Implementation Plan.

The Trash Amendments define typical PLUs as high density residential, industrial, commercial, mixed urban, or public transportation station areas. The 13383 Order states that "[non-traditional Phase II MS4 permittees] may not have typical Priority Land Uses; therefore the application of the Priority Land Use definition is subject to interpretation for such permittees." As a non-traditional permittee, Carnegie SVRA does not have typical PLUs, and therefore identified the following park-specific PLUs:

- Campgrounds
- Day Use Areas
- Parking Areas

The recommended On-land Visual Trash Assessment (OVTA) approach to conduct the Baseline Trash Assessments (Baseline Assessments) involved area based surveys that were conducted in park-specific PLUs. OVTA scores from the Baseline Assessments are presented in Table 3-7.

Table 3-7: Baseline Trash Assessment

Area	Trash Rating	OVTA Score	Area (acres)
Day Use Area	Low	A	8.13
Hillclimb Facility Parking	Low	A	40.59
Park Store Parking	Low	A	44.42
Campground	Low	A	55.39
Quad Track Parking	Low	A	4.40
MX Track Parking	Low	A	36.06
110cc Track Parking	Low	A	16.11
Total	-	-	**205.11**

The 13383 Order states that Phase II MS4 non-traditional permittees who have selected the Track 2 compliance option must "install, operate, and maintain any combination of Full Capture Systems, Multi-Benefit Projects, other Treatment Controls, and/or institutional controls (equivalent Full Capture Systems Best Management Practices) within either: (1) their own jurisdiction, or (2) their own jurisdiction and the jurisdiction of contiguous MS4 permittees." Correspondingly, "permittees selecting the Track 2 compliance option and not installing Full Capture Systems must demonstrate that the proposed implementation plan will achieve Full Capture System Equivalency."

Carnegie SVRA has an estimated Annual Baseline Trash Load of zero gallons per the Baseline Trash Load Calculations (see Table 3-8). Consequently, no additional trash reduction measures will be necessary for the Day Use Area, Hillclimb Facility Parking, Park Store Parking, Campground, Quad

Track Parking, MX Track Parking, or 110cc Track Parking, since the Baseline Assessments yielded "Low" OVTA scores for these areas.

Table 3-8: Baseline Trash Load Calculations

Category	Low	Moderate	High	Very High	Total
Average Trash Generation Rate (gallons/acre/year)	N/A	7.50	30	100	-
PLU Area (acres)	205.11	0	0	0	205.11
Estimated Baseline Trash Load (gallons/year)	N/A	0	0	0	0

Carnegie SVRA is in compliance with the 13383 Order and will continue to apply current trash control measures to ensure ongoing compliance. The forms used to document trash assessment data are located in Appendix J.

3.2.5 Rehabilitating Trails and Re-Establishing Vegetation

Vegetation and trail density surveys were made in order to track the progress of trail rehabilitation and vegetation re-establishment (Table 3-9). Around 800 riparian trees were planted in the floodplain of Corral Hollow Creek within Carnegie SVRA during the 2019-2020 winter. These species included California sycamore (Plantanus racemosa), Fremont cottonwood (Populus fremontii), red willow (Salix laevigata), and mulefat (Baccharis salicifolia). Initially, new plantings were watered weekly and monitored for survival rates.

In 2021, Carnegie SVRA reassessed its method for watering the newly planted trees in the creek. For example, SVRA staff ran irrigation lines to the new plantings, and plans to water the trees this way for an estimated three to five years until the trees can access groundwater on their own. Before drip irrigation, about half of the trees would die before they could establish themselves in the creek. Since the drip irrigation was installed and used, less than one percent of the new trees planted have not survived. 214 trees that have been planted have survived, which include the 20 trees that were planted during the 2021-2022 reporting period. Monitoring of the surviving trees will continue in the 2023-2024 reporting period.

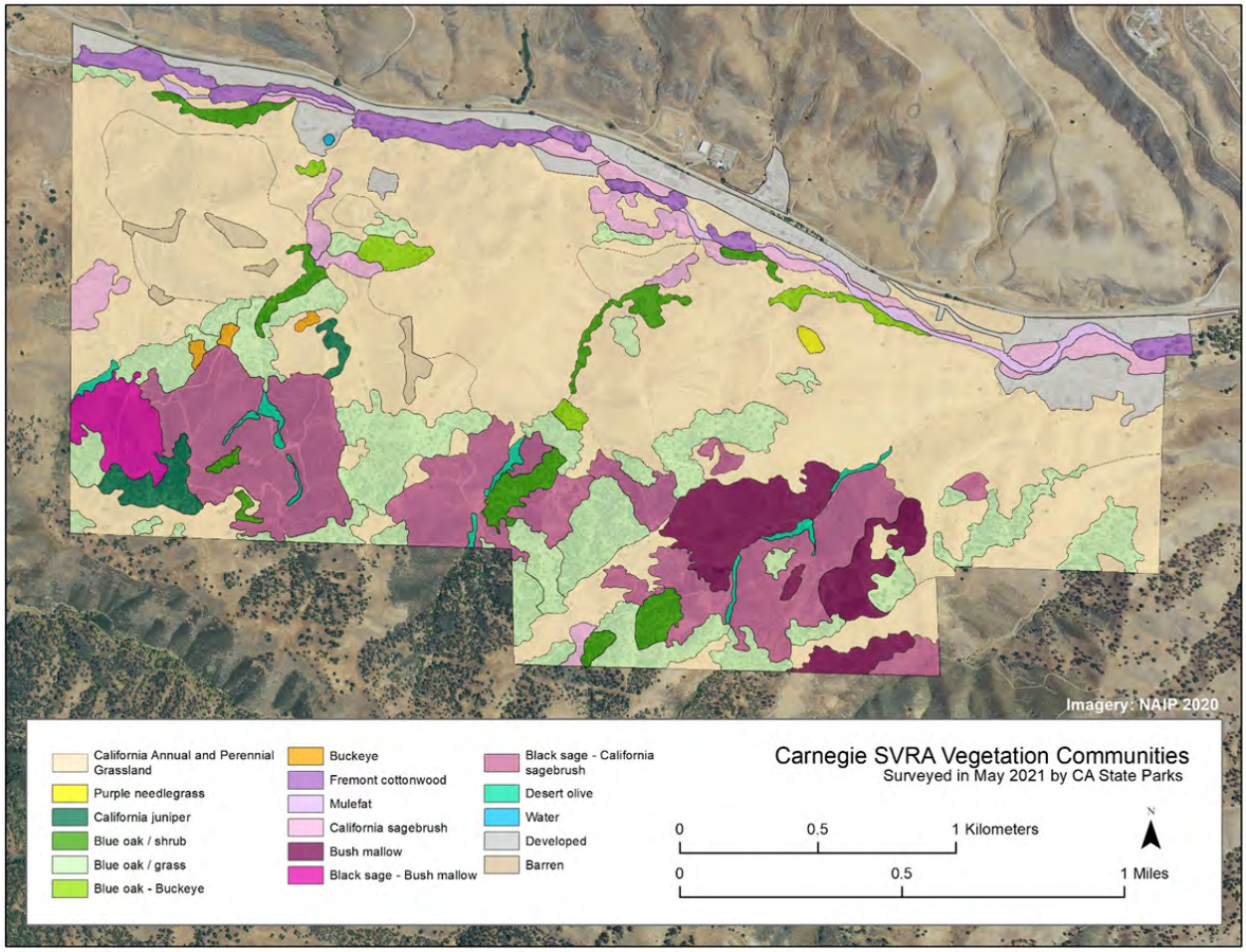


Figure 3-3: Vegetation Community Map at Carnegie SVRA

Table 3-9: Carnegie SVRA Mapped Vegetation Types and Acreage

	NVCS Name	Common name map label	Total Acres
Tree Overstory (Woodland / Forest) Vegetation	***Juniperus californica* woodland alliance**	California juniper	13.9
	***Aesculus californica* forest and woodland alliance**	Buckeye	2.9
	Quercus douglasii forest and woodland alliance		
	***Quercus douglasii* / Mixed herbaceous association**	Blue oak / grass	194.4
	***Quercus douglasii* - *Aesculus californica* / grass association**	Blue oak - Buckeye	13.3
	***Quercus douglasii* / *Ericameria linearifolia* association**	Blue oak / shrub	37.5
	***Populus fremontii* - *Fraxinus velutina* - *Salix gooddingii* Forest and woodland alliance**	Fremont cottonwood	35.4
Shrubland Vegetation	***Rhus trilobata* - *Crataegus rivularis* - *Forestiera pubescens* shrubland alliance**	Desert olive	9.6
	***Baccharis salicifolia* shrubland alliance**	Mulefat	12.3
	***Malacothanmus fasciculatus* - *Malacothamnus* spp. shrubland alliance**	Bush mallow	60.9
	***Salvia mellifera* – *Artemisia californica* alliance**	Black sage - California sagebrush	195.9
	***Salvia mellifera* - *Malacothamnus fasciculatus* association**	Black sage - Bush mallow	21.1
	Artemisia californica - (Salvia leucophylla) shrubland alliance		
	***Artemisia californica* association**	California sagebrush	49.8
Herbaceous Vegetation	**California annual and perennial grassland macrogroup**	California annual and perennial grassland	761.8
	***Nassella* spp. - *Melica* spp. alliance**	Purple needlegrass	1.5
Non-Vegetated	**Barren**	Barren	11.1
	Developed	Developed	90.1
	Water	Water	0.3
		SUM	1,512


Figure 3-4: Staff and Volunteer Planting Native Riparian Vegetation

3.2.6 Photo Monitoring Program

This program is aimed at collecting photos from fixed locations over time to detect changes, both natural and manmade. These allow for objective evaluations of the BMPs and methods chosen to manage the park's natural resources. These photo points are needed for the monitoring of the RMA model discussed in the introductory section since limiting off-trail riding is the primary goal of the Trails Program strategy. Landscape photos can reveal the success or failure of the tactics chosen as off-trail activity is easily visible.

Photo points have been set up throughout the park starting in 2010. To date there are over a 100 photo points, as points are added as needed. Data is collected at these points one to two times per year and is used to illustrate the progress made on the trail system with the various restrictions over the years. The results of these efforts can be found in Appendix K.

3.3 Program Modifications

Beginning in 2017-2018, the Phase II Permit required that permittees identify modifications to control measures or significant activities based on information obtained through the EA process. After reviewing the available EA data and discussing program functionality with SVRA staff, the following modifications were identified, implemented, as well as further revised as part of the 2018-2019 through 2021-2022 EA process.

- Earlier Initiation of the EA Process: In previous years, the EA process had been initiated after the conclusion of the respective reporting year. In 2018-2019 through 2022-2023, however, the process began during the reporting year to help ensure that all of the required activities were completed and goals identified in the previous year's EA were met. In 2023-2024, the EA review process will once again begin in May.

- Perform Inspections, Assessments, and Observations earlier in the Quarter: In 2019-2020, State Parks received approval from the State Water Board for temporary regulatory relief for specific provisions in the Phase II MS4 Permit. COVID-19 highlighted how unforeseen circumstances can impact a permittee's ability to meet permit requirements. As such, Carnegie SVRA will aim to perform quarterly inspections, assessments, and observations earlier in each quarter to help mitigate impacts, should a similar event occur in the future.
- Enhance Target Audience Awareness: Opportunities to enhance target audience awareness were identified in 2021-2022, such as providing educational material in different languages. Translating of existing educational material will continue to be explored in 2023-2024.

The Carnegie SVRA storm water program has successfully performed all planned activities, identified data gaps, and closed several data gaps. The program has also improved Target Audience Awareness, measuring both staff and visitor awareness of storm water issues at an "Acceptable" level (75-90 percent average assessment score) in 2022-2023. Data pertaining to Target Audience Actions and Pollutant Source Contributions has not yielded any significant trends to date. However, continuing the annual collection of EA data through the next permit term is expected to help identify programmatic improvements.

Appendix A

2022-2023 Effectiveness Assessment

Carnegie SVRA Effectiveness Assessment

California Department of Parks and Recreation
Off Highway Motor Vehicle Recreation Division
1416 9th Street
Sacramento, CA 95814
http://ohv.parks.ca.gov/

Date: October 2023

Table of Contents

1 Purpose

Carnegie State Vehicular Recreation Area (Carnegie SVRA) is subject to the requirements of the Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit (Phase II Permit) as a Non-Traditional Permittee. The Phase II Permit requires the submittal of an Annual Report to summarize the previous year's compliance effort. This Effectiveness Assessment (EA) has been created to provide the information requested in question number 55 of the 2022-2023 Annual Report, which includes the following:

- A description of the implementation of the Program Effectiveness Assessment and Improvement Plan (PEAIP);
- A summary of the data obtained by conducting a program EA;
- An analysis of the EA data; and
- A summary of the short and long-term progress of the storm water program.

2 Description of PEAIP Implementation

The Phase II Permit required the development and implementation of a PEAIP as part of the Year 2 compliance effort. PEAIP implementation during Year 10 for Carnegie SVRA primarily consisted of completing Phase II Permit compliance tasks (i.e., Year 10 Tasks), which effectively continued to build and develop the storm water program, while also implementing the program modifications that were identified as part of the Year 5 through 9 EA processes.

Another aspect of the PEAIP implementation involves the completion of EAs, which are used to evaluate the storm water program's impact on improving water quality. The eigth EA for the Carnegie SVRA storm water program (i.e., Year 10 EA) was performed for the 2022-2023 reporting year. The EA data and analysis are presented in the following sections.

3 Summary of Effectiveness Assessment Data

The purpose of completing an annual EA is to regularly assess the performance of the storm water program. The data collected in any given year will be compared to previous EA data with the goal of realizing program shortcomings and identifying potential improvements. It is important to note that the EA process is iterative, and subject to its own evaluation and revision to ensure the provided feedback is useful.

The PEAIP identifies sediment as the only pollutant of concern for Carnegie SVRA. The potential sources of sediment within the SVRA include park activities, rehabilitation activities, and construction. Carnegie SVRA employs several methods to manage sediment throughout the park, including the application of erosion control, operating and maintaining sediment basins, rock check dams, evaluating and maintaining trails, and visually inspecting BMPs.

Similar to the EAs performed in Years 3 through 9, the Year 10 EA was completed by answering detailed pollutant management questions related to Carnegie SVRA facilities and activities. The

answers for management questions were determined by internally tracking program activities, surveying SVRA staff, and performing site inspections.

Storm Water Program Activities (Outcome Level 1) for Year 10 were primarily driven by Phase II Permit compliance requirements, which included recurring requirements from previous years. A detailed record of these activities is included in Appendix A, Completed Phase II Permit Compliance Tasks for Year 10. The EA also evaluates Target Audience Awareness (Outcome Level 2), Target Audience Actions (Outcome Level 3), and Pollutant Source Contributions (Outcome Level 4). Collected EA data is included in Appendix B, 2022-2023 Effectiveness Assessment.

4 Analysis of EA Data

The Year 10 EA provided the eigth EA data set for Carnegie SVRA, with the seven prior data sets coming from the Year 3 through 9 EAs. In addition to the Phase II Permit requirements, Carnegie staff has implemented a robust trail maintenance program, which includes reducing sediment discharge as a key element. This trail maintenance program data has also been incorporated into the EAs.

The Year 3 EA process revealed that some management questions could not be answered due to a lack of available data (i.e., data gaps), which encouraged Carnegie SVRA to set Year 4 EA goals to close these gaps. The Year 4 EA revealed a single data gap related to the documentation of off-trail riding incidents. This data gap was closed in Year 5 by documenting the number of Resource Management Area (RMA) closures that occurred due to off-trail riding incidents, as detailed in Section 4.3. No data gaps have been identified since the Year 5 EAs.

Analysis and comparisons between Years 3 through 10 EA data for each Outcome Level are discussed in the following sections.

4.1 Storm Water Program Activities - Outcome Level 1

Storm water program activities performed at Carnegie SVRA during the past reporting year included:

- Performing Quarterly Hotspot Inspections for the Maintenance Yard and Tesla Mine Complex (see example hotspot inspection form in Appendix C)
- Performing Quarterly Operations and Maintenance (O&M) Activity Best Management Practice (BMP) Inspections
- Maintaining Storm Drain Systems
- Inspecting SVRA Facilities and Storm Drain Systems
- Performing Annual Trail Condition Evaluations
- Rehabilitating Trails and Re-Establishing Vegetation
- Raising rider awareness of storm water issues during peak visitation periods by operating an information booth near the concessions store
- Raising rider awareness of storm water issues through the creation and display of educational brochures, social media posts, and interpretive panels

These activities were implemented, documented, and tracked to comply with Phase II Permit requirements, to reduce the sediment load at Carnegie SVRA, and to ensure the complete execution of program elements. A record of these activities is included in Appendix A, Completed Phase II Permit Compliance Tasks for Year 10.

4.2 Target Audience Awareness - Outcome Level 2

The primary target audiences for the Carnegie SVRA storm water program includes SVRA staff and visitors. Assessing awareness is primarily achieved through surveying and/or testing knowledge of the target audience.

EA data regarding target audience awareness specific to the identified pollutant of concern was not included in the Year 3 EA, since no assessments were administered to the target audiences that year. This data gap was closed during Years 4 and 5 through the completion of knowledge assessments by SVRA staff and visitors. In Year 6, knowledge assessments were completed by SVRA staff. SVRA staff and visitor assessments were administered again in Years 7 through 10 to continue measuring awareness.

In Year 10, assessments were completed by 22 permanent SVRA staff in June of 2023. The assessment's level of difficulty has slightly increased in the past four years (compared to Year 6) to better gauge SVRA staff's understanding of more in-depth water quality issues. The 25-question assessment included questions related to sediment, trash, Illicit Discharge Detection and Elimination (IDDE), Pollution Prevention and Good Housekeeping (PPGH), as well as general storm water awareness. Assessment results are presented in Table 1 below:

Table 1: Year 10 Phase II Permit SVRA Staff Assessment Results

Question Category[1]	Average % Correct	Number of Questions
Sediment	91%	3
Trash	98%	3
IDDE	72%	8
PPGH	71%	7
General Storm Water Awareness	81%	4
All Questions	79%	25

NOTES:

(1) The IDDE, PPGH, and General Storm Water Awareness questions addressed specific water quality concerns associated with the topic, while simultaneously incorporating potential pollutants into the questions as well (e.g., sediment and trash).

The results suggest that the entire SVRA staff has an acceptable understanding of the water quality topics covered, despite the increased level of assessment difficulty.

Knowledge assessments were also completed by 133 SVRA visitors in Year 10. The average score of the visitor assessments was 78 percent correct. Typically, the visitor survey is made available in-person, but due to COVID-19 recent assessments have been posted on social media. SVRA visitors were incentivized to complete the assessment with a coupon for a free day of entry to the park.

The goal set by the Carnegie SVRA storm water program was to achieve an average visitor assessment score of greater than 90 percent, which would indicate a high level of understanding of water quality issues. With this goal not met in Year 10, Carnegie SVRA will continue to post and distribute educational materials in support of achieving a high level of visitor awareness.

SVRA knowledge assessments will be administered annually to continue measuring target audience awareness of water quality issues.

4.3 Target Audience Actions - Outcome Level 3

The actions of target audiences are evaluated by performing site investigations and internally tracking storm water program data.

Illicit Discharges

One illicit discharge of sediment was documented during Year 10. Sediment-related illicit discharge tracking will continue annually, with the goal of ensuring continued elimination of their occurrence.

RMA Closures

The number of documented off-trail riding incidents in a given reporting year provides a measure of target audience (i.e., rider) actions. In Year 4, 118 off-trail incidents were documented compared to 3 documented incidents in Year 3. This increase was primarily attributed to more frequent trail inspections and an expansion of available riding trails.

In Year 5, SVRA staff elected to modify the measure of rider actions by tracking the number of RMA closures resulting from off-trail incidents, rather than the number of incidents themselves. RMA closures allow areas damaged by off-trail riding to recover, and alert riders of the consequences associated with riding off-trail. There were 34 RMA closures documented in Year 5, 45 RMA closures in Year 6, 47 RMA closures in Year 7, 87 RMA closures in Year 8, 89 RMA closures in Year 9, and 31 closures in Year 10. Closures will continue to be tracked in this manner, with a goal of observing a decrease over time.

Year 10 was an especially wet year (see Table 4 below), which resulted in several park-wide closures, as well as fewer riding days.

Sediment and Erosion Control Evaluation

An evaluation of proper sediment and erosion control BMP installation by SVRA staff was not performed in Year 3. Evaluations of BMP performance were completed in Years 4 through 10; results are presented in Table 2 below.

Table 2: Evaluation Summary of BMP Installations

BMP Installation Evaluation Criteria	Year4 Ratings (2016-2017)	Year 5 Ratings (2017-2018)	Year 6 Ratings (2018-2019)	Year 7 Ratings (2019-2020)	Years Ratings (2020-2021)	Year9 Ratings (2021-2022)	Year 10 Ratings (2022-2023)
Properly installed, continuing to function as intended	62%	78%	81%	71%	68%	71%	46%
Minor deficiencies identified	5%	10%	9%	15%	11%	13%	16%
Not installed correctly, or not functioning properly. Replacement required.	4%	10%	6%	9%	8%	14%	13%
Not Rated	29%	2%	4%	4%	14%	2%	25%

While deficiencies are not necessarily an indicator of improper installation (e.g., damage from heavy storms or off-trail riding are other possible causes), the high percentage of properly installed and functional BMPs demonstrates that SVRA staff are continuing to perform installations correctly.

The slight increase in minor and major deficiencies between Year 4 and 5 was likely attributable to the increase in the percentage of trails rated (i.e., 98 percent of trails were rated in Year 5, while 71 percent were rated in Year 4). In Year 6, there was an increase in the percentage of properly installed and continuing to function BMPs, a decrease in the percentage of BMPs with minor and major deficiencies, and a slight increase in the percentage of BMPs that were not rated. In Year 7, there was a decrease in the percentage of properly installed and continuing to function BMPs, an increase in the percent of BMPs with minor and major deficiencies, and no change in the percentage of BMPs that were not rated. In Year 8, there was a slight reduction in the percentage of properly installed and continuing to function BMPs, as well as a decrease in the percent of BMPs with minor and major deficiencies, and an increase in the percentage of BMPs that were not rated. In Year 9, there was a slight increase in the percentage of properly installed and continuing to function BMPs, as well as a slight increase in the percent of BMPs with minor and major deficiencies, and a decrease in the percentage of BMPs that were not rated. Year 10 was an especially wet year, which left many trails damaged and/or inaccessible (i.e., resulting in a higher number of not rated trails). BMP evaluations will continue to be performed annually, with the goal of observing high percentages of properly installed BMPs each year. The form used to evaluate trails can be found in Appendix D.

4.4 Pollutant Source Contributions - Outcome Level 4

Pollutant source contributions are measured by performing site inspections and internally tracking storm water program data related to the prevention of sediment discharges.

Trail Ratings

Carnegie SVRA's Trails Program aims to reduce sediment discharges resulting from park activities by creating sustainable, well-designed trail systems, and rehabilitating erosive areas of the park.

RMAs - park sub-areas generally delineated by sub watershed boundaries - have been designated throughout the park to help manage the implementation of the Trails Program. The program includes the annual evaluation and classification of trail conditions throughout the park. All trails are assigned a rating as follows:

- **Green** - Indicates the trail is in good condition and the water features (used to reduce erosion) are functioning properly.
- **Yellow** - Assigned when the water features or trail tread are beginning to show signs of deterioration. ***(Note: This category was expanded in Year 4 to also include minor deficiencies that warrant attention.)***
- **Red** - Indicates the trail has deteriorated and its water features are no longer functioning as designed.
- **Not Rated** - Trails that were not rated in the past reporting year.

Trail health is an important metric for evaluating sediment management because poor trail condition is a leading source of erosion in the SVRA. The overall goal is to observe an increase in Green trail ratings and a reduction in the percent of Yellow and Red ratings. The park-wide trail ratings for Years 3 through 10 are presented as percentages in the table below.

Table 3: Annual Trail Ratings

Trail Rating (Color)	Year 3 Ratings (2015-2016)	Year 4 Ratings (2016-2017)	Year 5 Ratings (2017-2018)	Year 6 Ratings (2018-2019)	Year 7 Ratings (2019-2020)	Years Ratings (2020-2021)	Year 9 Ratings (2021-2022)	Year 10 Ratings (2022-2023)
Green	43%	27%	22%	12%	49%	70%	77%	49%
Yellow	34%	57%	50%	62%	44%	18%	22%	14%
Red	22%	16%	13%	7%	7%	1.3%	1%	11%
Not Rated	0%	0%	15%	19%	0%	9.9%	0%	26%

Year 10 was an especially wet year, which left many trails damaged and/or inaccessible (i.e., resulting in a higher number of not rated trails). The Yellow rating scale was expanded in Year 4 to also include minor deficiencies (i.e., marginally deficient areas were classified as Green in Year 3). While the trail ratings are not solely a representation of soil loss because there are other factors that are measured simultaneously, they provide a useful general overview of trail conditions that can be used to measure progress over time.

Sediment Basin Maintenance

Sediment basins are typically cleaned annually to remove accumulated sediment and other material. Environmental permits, which are required to perform maintenance activities in the basins, were not issued in time to remove accumulated sediment in Years 4 or 10.

The amount of material deposited in the sediment basins is a function of rainfall intensity and duration. It does not necessarily reflect the effectiveness of upstream erosion and sediment controls (i.e., a single, short-duration, high intensity storm can deposit the same volume of

sediment in a basin as numerous longer, low-intensity storms). This measurement solely indicates how much material the basins prevented from discharging to receiving waters. Rainfall totals and corresponding basin material removal volumes are presented in Table 4 below.

Table 4: Rainfall Totals and Sediment Basin Material Removal Volumes

Measurement	Year 3 (2015-2016)	Year4 (2016-2017)	Year 5 (2017-2018)	Year 6 (2018-2019)	Year 7 (2019-2020)	Years (2020-2021)	Year9 (2021-2022)	Year 10 (2022-2023)
Rainfall Total (inches)	16.1	22	11	14.45	7.71	5.46	11.33	20.06
Volume of Material Removed from Basins (cubic yards)	8,010	**N/A***	3,311	6,265	2,594	2,126	1,290	**N/A***

* Environmental permits not issued

Trash Assessment

On June 1, 2017, Carnegie SVRA received a Water Code Section 13383 Order (13383 Order) to select and submit a compliance track to comply with the Trash Amendments.

The 13383 Order required that permittees identify the locations and land uses that generate substantial amounts of trash within their facility, as well as select and submit a compliance track by September 1, 2017. Carnegie SVRA selected the Track 2 compliance option in a letter to the SWRCB submitted via the Stormwater Multiple Application and Report Tracking System website. Since Track 2 requires a combination of controls that will achieve Full Capture System Equivalency, the submittal also included preliminary jurisdictional maps that identified proposed park-specific Priority Land Uses (PLUs), as well as the MS4 network that conveys the discharges from those land uses. The 13383 Order also specified that by December 1, 2018, permittees that selected the Track 2 compliance option must submit updated jurisdictional map(s) and an Implementation Plan.

The Trash Amendments define typical PLUs as high density residential, industrial, commercial, mixed urban, or public transportation station areas. The 13383 Order states that "[non-traditional Phase II MS4 permittees] may not have typical Priority Land Uses; therefore the application of the Priority Land Use definition is subject to interpretation for such permittees." As a non-traditional permittee, Carnegie SVRA does not have typical PLUs, and therefore identified the following park-specific PLUs:

- Campgrounds
- Day Use Areas
- Parking Areas

The recommended On-land Visual Trash Assessment (OVTA) approach to conduct the Baseline Trash Assessments (Baseline Assessments) involved area based surveys that were conducted in PLUs (Campgrounds, Day Use Areas, and Parking Areas). OVTA scores from the Baseline Assessments are presented in Table 5.

Table 5: Baseline Trash Assessment

Area	Trash Rating	OVTA Score	Area (acres)
Day Use Area	Low	A	8.13
Hillclimb Facility Parking	Low	A	40.59
Park Store Parking	Low	A	44.42
Campground	Low	A	55.39
Quad Track Parking	Low	A	4.40
MX Track Parking	Low	A	36.06
110cc Track Parking	Low	A	16.11
Total			**205.11**

The 13383 Order states that Phase II MS4 non-traditional permittees who have selected the Track 2 compliance option must "install, operate, and maintain any combination of Full Capture Systems, Multi-Benefit Projects, other Treatment Controls, and/or institutional controls (equivalent Full Capture Systems Best Management Practices) within either: (1) their own jurisdiction, or (2) their own jurisdiction and the jurisdiction of contiguous MS4 permittees." Correspondingly, "permittees selecting the Track 2 compliance option and not installing Full Capture Systems must demonstrate that the proposed implementation plan will achieve Full Capture System Equivalency."

Carnegie SVRA has an estimated Annual Baseline Trash Load of zero gallons per the Baseline Trash Load Calculations (see Table 6 below). Consequently, no additional trash reduction measures will be necessary for the Day Use Area, Hillclimb Facility Parking, Park Store Parking, Campground, Quad Track Parking, MX Track Parking, or 110cc Track Parking, since the Baseline Assessments yielded "Low" OVTA scores for these areas.

Table 6: Baseline Trash Load Calculations

Category	Low	Moderate	High	Very High	Total
Average Trash Generation Rate (gallons/acre/year)	N/A	7.5	30	100	
PLU Area (acres)	205.11	0	0	0	205.11
Estimated Baseline Trash Load (gallons/year)	N/A	0	0	0	0

Carnegie SVRA is in compliance with the 13383 Order and will continue to apply current trash control measures to ensure ongoing compliance. The forms used to document trash assessment data are located in Appendix E.

5 Progress of the Carnegie SVRA Storm Water Program

5.1 Short-Term Progress

The Carnegie SVRA storm water program completed all Year 10 compliance requirements associated with the Phase II Permit (a list of completed requirements are included in Appendix A), as well as the 12th year of the Stormwater Management Plan (SWMP) implementation. The purpose of the SWMP is to reduce or eliminate potential pollutant discharges from Carnegie SVRA using site-specific structural and non-structural BMPs to protect and improve water quality, while also providing high quality Off-Highway Vehicle (OHV) recreational opportunities. The SWMP implementation, which is often performed in conjunction with Phase II Permit compliance activities, includes the following:

- Education and Outreach Program;
- Public Involvement and Participation Program;
- Illicit Discharge Detection and Elimination Program;
- Construction Site Runoff Control Program;
- Pollution Prevention/Good Housekeeping Program;
- Post Construction Stormwater Management Program;
- OHV Trails and Facilities Management;
- Program Effectiveness Assessment and Improvement;
- Total Maximum Daily Loads Compliance Requirements; and
- Online Annual Reporting.

Short-term progress was demonstrated by the storm water program's implementation through the successful completion of Phase II Permit compliance and SWMP implementation activities. In addition to Phase II Permit compliance, the following SWMP activities have been completed or initiated, and are continuing to have a positive impact on short-term progress.

- Policy Updates
    - Wet Weather Trail Closures - use of minimum closure times, cumulative precipitation measurements over specified durations, and more stringent re-opening criteria to determine the necessity of trail closures.
    - Limited Vehicle Access in Riparian Areas (Corral Hollow Creek) -Access is limited to five crossings (i.e., one bridge and four hardened low-water crossings) to allow for the re-establishment of riparian vegetation and habitat.

5.2 Long-Term Progress

Long-term progress of the program demonstrates a determinate shift in SVRA staff and visitor behavior (Outcome Level 3) and a measurable reduction in sediment discharges from the SVRA (Outcome Level 4).

As a Phase II permittee, Carnegie SVRA anticipates that the completion of recurring compliance activities will aid in achieving long-term water quality improvement goals. In addition, the following long-term program activities have been initiated as part of the SWMP implementation.

- Implementing the Trails Program - Delineates the park into RMAs, and includes erosion and sediment control installations, vegetation rehabilitation, rider education, reduction of trail density, increase of vegetation, and enforcement actions.
- Trail Redesign and Sustainability - Aims to redesign trails with the goal of reducing overall soil disturbance and breaking hydrologic connections.

5.3 Program Modifications

Beginning in Year 5, the Phase II Permit required that permittees identify modifications to control measures or significant activities based on information obtained through the EA process. After reviewing the available EA data and discussing program functionality with SVRA staff, the following modifications were identified, implemented, as well as further revised as part of the Year 6 through Year 10 EA process.

- Earlier Initiation of the EA Process: In previous years, the EA process had been initiated after the conclusion of the respective reporting year. In Years 6 through 10, however, the process began during the reporting year to help ensure that all of the required activities were completed and goals identified in the previous year's EA were met. In Year 11, the EA review process will once again begin in May.
- Perform Inspections, Assessments, and Observations earlier in the Quarter: In Year 7, State Parks received approval from the State Water Board for temporary regulatory relief for specific provisions in the Phase II MS4 Permit. COVID-19 highlighted how unforeseen circumstances can impact a permittee's ability to meet permit requirements. As such, Carnegie SVRA will aim to perform quarterly inspections, assessments, and observations earlier in each quarter to help mitigate impacts, should a similar event occur in the future.
- Enhance Target Audience Awareness: Opportunities to enhance target audience awareness were identified in Year 9, such as developing new informational panels and offering new educational material in multiple languages. As such in Year 10, five new panels were developed. Additionally, Trash Activity Booklets were printed in Spanish and English, and are now available to park visitors. A new educational video, an updated brochure, and the development of school programs will be explored in Year 11.
- Digitize Data Collection Efforts: Carnegie SVRA staff currently perform inspections using paper inspection forms, which requires that additional steps be taken once back in the office (e.g., scanning forms to PDF, uploading images, and filing documents accordingly). As such, opportunities to streamline and digitize data collection efforts were identified in Year 10. Mobile applications, such as Survey 123 and/or Field Maps, will be explored in Year 11.

The Carnegie SVRA storm water program has successfully performed all planned activities (Outcome Level 1), identified data gaps, and closed several data gaps across various Outcome Levels. The program has also improved Target Audience Awareness (Outcome Level 2), measuring staff awareness of storm water issues at an "Acceptable" level (75-90 percent average assessment score) and visitors at an "Acceptable" level (75-90 percent average assessment score) in Year 10. Data pertaining to Target Audience Actions (Outcome Level 3) and Pollutant Source Contributions (Outcome Level 4) has not yielded any significant trends to date. However, continuing the annual

collection of EA data through the next permit term is expected to help identify programmatic improvements.

Appendix A
Completed Phase II Permit Compliance Tasks for Year 10

Appendix A- Completed Phase II Permit Compliance Tasks for Year 10 - Carnegie SVRA

Permit Element	Source(s)	Year IO Task	Target Completion Date	Complete?
Pollution Prevention/Good Housekeeping	• Phase II Permit, F.5.f.4 • Phase II Permit, F.S.f.5.a • Phase II Permit, F.5.f.5.b • Phase II Permit, F.S.f.5.c •SWMP	Quarterly Hotspot **visual** and **comprehensive** inspections. Quarterly **Hotspot visual observations of storm water and non-storm water** discharges. **Visual: Includes inspection of materials, equipment and practices within the facilities to ensure they are clean and orderly.** **Comprehensive: Includes comprehensive inspection of hotspot** facilities, including all storm water BMPs, with specific attention paid **to (but not limited to) waste storage areas, dumpsters, vehicle and** equipment maintenance/fueling areas, material handling areas, and **similar potential pollutant-generating areas.** **Storm and Non-Stormwater Discharge Observations:** Inspect/observe hotspot facility **discharge points,** identify corrective **actions, and remedy within 7 days or before next storm, whichever is sooner. Identify any deficiencies and corrective actions. Document inspection in hotspot SWPPP.** **Identify any deficiencies and corrective actions. Document inspection** in hotspot SWPPP.	At least one time per quarter	Yes
Pollution Prevention/Good **Housekeeping**	• Phase II Permit, F.5.f.8 •SWMP	Quarterly O&M Activity BMP Assessments	**At least one time per quarter**	Yes
Pollution Prevention/Good Housekeeping	• **Effectiveness Assessment**	**Park Activities: Continue to assess sediment discharges.**	**Continuous**	Yes
Construction Site Runoff Control	• **Phase II Permit, F.5.a.I.ii.d** • **Phase II Permit, F.S.a.1.ii.e** • **Phase II Permit, F.5.e** •SWMP	**When necessary, ensure CGP coverage, usage of the CASQA BMP** Handbook and/or Off-Highway Vehicle BMP Manual. Training for Engineers and Contractors as needed. **Oversight inspections for construction projects as needed.** Update SWMP with implemented contract language.	**Continuous**	Yes
Illicit Discharge Detection and **Elimination**	• Phase II Permit, F.5.d.3 • **Effectiveness Assessment**	**Continue Implementing IDDE Procedures**	**Continuous**	Yes
Post Construction Stormwater Management	• Phase II Permit, F.S.g.1 • Phase II Permit, F.5.g.2 • Phase II Permit, F.S.g.2.a • Phase II Permit, F.5.g.4	**Identify projects with impervious area > 2,500[1];** **Comply with post-construction requirements as needed.** Develop system for identifying and evaluating all projects within the SVRA. Projects must be identified in the planning phase. Ensure BMPs include written O&M legally enforceable agreement.	**Continuous**	Yes
Program Management	• Phase II Permit, F.5.a	Verify legal authority for new program elements, if any.	**Continuous**	Yes
Storm Water Program Modifications	• **SWMP**	Attend Phase II MS4 Permit Virtual Stakeholder Workshops, if any. **Review new Phase II MS4 Permit, if released.**	**Continuous**	Yes
Pollution Prevention/Good **Housekeeping**	• Phase II Permit, F.S.f.7 • **Storm Drain System Maintenance Procedure**	**Inspection and Cleaning of Catch Basins, Storm Drains, Open** Channels, Pipes, Basins, Outlets, and Other Drainage Structures • **Annual Inspection and cleaning of High Priority Storm Drains.** • **Medium Priority scheduled for biannual inspections and cleaning.** • **Low Priority every 3 years.** • **Annual inspection of open channels, pipes, basins, outlets, other drainage structures to ID and prioritize problem areas. Clean and remove debris as needed, but at least annually.** • Update "Storm Drain Inspection and Maintenance Schedule" **spreadsheet to document most recent inspection(s).**	Early Q2 of Year 10 ensures adequate time to perform **maintenance prior to rainy season.**	Yes

Appendix A- Completed Phase II Permit Compliance Tasks for Year 10 - Carnegie SVRA

Permit Element	Source(s)	Year 10 Task	Target Completion Date	Complete?
Pollution Prevention/Good **Housekeeping**	• Phase II Permit, F.5.f.1 • Phase II Permit, F.5.f.3 • Phase II Permit, F.5.f.5.d • Phase II Permit, F.5.f.6 • **SWMP** • Facility Inventory and Storm **Drain Assessment and Prioritization Procedure**	**Annual review, inspection and assessment of all facilities to determine potential impact to surface waters.** **Review and revise prioritizations, if needed, at least once per Phase II** Permit term (once every five years until rescinded by the SWRCB, or **until a new Order is issued).**	May 2023	Yes
Public Involvement and Participation	• **Phase II Permit, F.5.c**	Ensure all **high priority** storm drain inlets are properly stenciled. Are **placards/medallions in place? Any need replacement?** **Determine what percentage of all catch basins/inlets are labeled.** **Document inspection of each catch basin using SD Inspection Form.**	May 2023	**In Progress**
Illicit Discharge Detection and **Elimination**	• Phase II Permit, F.5.d.1	Re-assess outfall priority and update Outfall Map. Photographs or electronic database? Baseline information? Tracking **operation and maintenance needs over time?** **Update contact information and scheduling spreadsheet.**	May 2023	Yes
Pollution Prevention/Good **Housekeeping**	• Phase II Permit, F.5.f.2	**Update Map of Permittee-Owned or Operated Facilities, if needed.** **Changes in management?**	May 2023	Yes
Pollution Prevention/Good **Housekeeping**	• Phase II Permit, F.5.f.9 • **Effectiveness Assessment**	**Rehabilitation: Continue to assess sediment discharges.**	May 2023	Yes
Program Management	• PEAIP • **Effectiveness Assessment**	Update Year 10 Task List **Ensure data is collected to answer detailed PEAIP pollutant management questions related to facilities and activities.**	May 2023	Yes
Program Management	• **Trash Amendments**	No updates to the Priority Land Use (PLU) Maps are necessary. If necessary, update PLU Maps to include Trash Management Areas.	May 2023	Yes
Program Management	• **Trash Amendments Implementation Plan** •SWMP • **Effectiveness Assessment**	In compliance with the Trash Amendments (i.e., all areas were rated "Low"). **Compare Year 10 Tasks against Trash Amendment requirements and** ensure compliance. Update accordingly, if needed.	May 2023	Yes
Public Education and Outreach	• **Phase II Permit, F.S.b.2.ii** • SWMP • **Effectiveness Assessment**	Evaluate, improve, and implement updated **public education strategy.** **Compile existing educational material. New/revised educational material necessary?**	May 2023	Yes
Public Education and Outreach	• Phase II Permit, F.5.b.1.	**Reevaluate countywide, regional, or individually+ agreements.** **Are there any nearby schools that we can partner with? Informational panels. Can we do more? Share with other recreational areas?** **Websites? Trash awareness material.**	May 2023	Yes
Public Education and Outreach	• Phase II Permit, F.5.b.2.ii • **Effectiveness Assessment**	**Review content in brochures, website, panels, etc. and update assessment.** **Gauge level of awareness using Annual Visitor Assessment.**	May 2023	Yes

Appendix A- Completed Phase II Permit Compliance Tasks for Year 10 - Carnegie SVRA

Permit Element	Source(s)	Year 10 Task	Target Completion Date	Complete?
Public Education and Outreach	• Phase II Permit, F.5.b.3.ii • Phase II Permit, F.5.b.4 • SWM P • **Effectiveness Assessment**	**IDDE** & **PPGH:** Review content provided in previous training and **update assessment.** **Gauge level of awareness using Annual Staff Assessment;** **Biennial training and train new Staff.**	May 2023	Yes
Public Education and Outreach	• Phase II Permit, F.5.b.2.ii	**Ensure water-efficiency, if applicable.**	May 2023	Yes
Public Education and Outreach	• Phase II Permit, F.5.b.3.ii	**Ensure IDDE reporting procedures are located in each Staff vehicle;** **Ensure contact information is up to date**	May 2023	Yes
Public Involvement and Participation	• Phase II Permit, F.5.b.2.ii • **Phase II Permit, F.5.c** • **Effectiveness Assessment**	**Check awareness messages and information are on website and post on Facebook. Other languages?**	May 2023	Yes

Appendix B

2022-2023 Effectiveness Assessment

Appendix B - 2022-2023 Effectiveness Assessment - Carnegie SVRA

Pollutant of Concern: Sediment

Question #	Source Contribution Activity	Outcome Level	Management Questions	Data	Goal	2015-2016 Data	2016-2017 Data	2017-2018 Data	2018-2019 Data	2019-2020 Data	2020-2021 Data	2021-2022 Data	2022-2023 Data	Notes
	Park Activities													
1	Park Activities	1	How many inspections were performed to assess sediment discharges from Park Activities (Facilities and Activities)?	Number of inspections performed:	N/A - Goal is to accurately track. Increase or decrease based on the need determined over time.	3	21	52	47	45	40	13	64	24 hotspot inspections, 4 O&M inspections, 1 IDDE, 1 BMP eval, 1 trail eval, 1 fence eval, 20 OTR inspections, 12 storm water inspections
2	Park Activities	1	How many erosion and sediment control related trainings were provided for SVRA Staff in the past reporting year?	Number of trainings opportunities provided:	N/A - Goal is to accurately track. Need is based on permit requirements and/or survey results.	1	1	1	0	1	0	1	1	One trails team member recieved formal trails training in 2022. In-Person training planned in Year 11.
3	Park Activities	1	What percent of SVRA Staff attended at least one sediment control related training in the past reporting year?	Percent of staff who attended at least one training:	100% in years where training is required.	56%	80%	100%	N/A	50%	N/A	65%	N/A	In-Person training planned in Year 11.
4	Park Activities	1	How many types of storm water educational materials were made available to the public in this past reporting year (Electronic or Paper Brochures)?	Number of educational material provided	N/A - Goal is to accurately track. Increase or decrease based on the need determined over time.	3	3	3	3	3	3	5	6	1 brochure & 5 panels
5	Park Activities	2	What is the level of awareness among SVRA Staff regarding the effects of sediment discharges on water quality? [High (>80%), Acceptable (75-90%), Needs Improvement (<75%)]	Survey SVRA Staff to establish a baseline level of understanding of the effects sediment has on water quality.	High	Unknown	High	High	Acceptable	High	High	High	High	91%
6	Park Activities	2	What is the level of awareness among SVRA Visitors regarding the effects of sediment discharges on water quality? [High (>90%), Acceptable (80-90%), Needs Improvement (<80%)]	Survey SVRA Visitors to establish a baseline level of understanding of the effects sediment has on water quality.	High	Unknown	Needs Improvement	High	Unknown	Acceptable	Acceptable	Needs Improvement	Acceptable	83%
7	Park Activities	3	How many off-trail riding incidents were documented in the past reporting year?	Number of RMA closures that resulted from off-trail riding incidents:	Achieve reduction in RMA closures	3	118	34	45	47 RMA closures	87	89	31	31 incidences of off-trail riding
8	Park Activities	3	How many illicit discharges of sediment were documented in the past reporting year? (see comment for definition)	Number of sediment related illicit discharges (data from IDDE Inspection Reports):	0	0	0	0	0	0	0	1	1	
9	Park Activities	4	What are the trail rating percentages based on the 2015-2016 annual trail condition evaluation?	Rating Percentages: Green/Yellow/Red Green: Indicates the trail is in good condition and the water features, used to reduce erosion, are functioning properly. Yellow: Assigned if ANY trail maintenance issue is identified, regardless of how minor. Typically reserved for trails showing initial signs of deterioration. Red: Indicates the trail is experiencing soil loss at an unsustainable rate and repair or closure is needed.	100% / 0% / 0%	43% / 34% / 22%	27% / 57% / 16%	22% / 50% / 13% / NR: 15%	12% / 62% / 7% / NR: 19%	49% / 44% / 7% / NR: 0%	70% / 18% / 1.3% / NR: 9.9%	77.1% / 21.5% / 1.4%	49% / 14% / 11% 26% not assessed	627 trail segments total 163 not rated 104 green 90 yellow 70 red 2022-2023 storm damages left many trails damaged and/or inaccessible, resulting in a higher number of not rated trails this reporting period
10	Park Activities	4	What is the volume of material removed from the sediment basins during the past reporting year?	Volume of material captured by sediment basins and removed during basin maintenance.	N/A - Goal is to accurately track. Material volume in basins is a function of rainfall intensity and duration, and does not necessarily reflect the effectiveness of upstream erosion and sediment controls. (i.e. a single, short-duration, high intensity storm can deposit the same volume of sediment in a basin as numerous longer, low intensity storms). This measurement solely indicates how much material was prevented from discharging to receiving waters.	8010 Cubic Yards	0	3311 CY	6265 CY	2,594 CY	2126 CY	1290 CY	0	
	Rehabilitation													
11	Rehabilitation	1	How many erosion and sediment control related trainings did Restoration Staff attend in the past reporting year?	Number of trainings attended:	N/A - Goal is to accurately track. Need is based on permit requirements and/or survey results.	1	0	1	0	1	0	1	0	In-Person training planned in Year 11.
12	Rehabilitation	1	What percent of Restoration Staff attended an erosion and sediment control related training in the past reporting year?	Percent of staff who attended at least one training:	100%	16 of 20 (80%)	0	88%	N/A	100%	N/A	88%	N/A	In-Person training planned in Year 11.
13	Rehabilitation	2	What is the level of awareness among Restoration Staff regarding the effects of sediment discharges on water quality? [High (>90%), Acceptable (75-90%), Needs Improvement (<75%)]	Survey Restoration Staff to establish a baseline level of understanding of the effects sediment has on water quality. Perform semi-annual (or annual) survey's to measure changes in awareness.	High	Unknown	High	High	Acceptable	Acceptable	High	Acceptable	High	95%
14	Rehabilitation	3	What percent of erosion and sediment controls in restoration areas were installed and implemented properly?	Rating Percentages: Green/Yellow/Red Green: BMPs were installed properly, and are continuing to function as intended. Yellow: Minor BMP installation deficiencies observed. Red: BMPs were not installed properly, and require replacement or reinstallation. NR: Not Rated	100%	Unknown	62% / 5% / 4% / NR: 29%	78% / 10% / 10% / NR: 2%	83% / 9% / 6% / NR: 4%	71% / 15% / 9% / NR: 4%	68% / 11% / 8% / NR: 14%	70.7% / 13.3% / 13.5% / NR: 2.5%	46% / 16% / 13% 25% not assessed	894 BMP points and fence segments 228 not rated 407 green 140 yellow 119 red 2022-2023 storm damages left many trails damaged and/or inaccessible, resulting in a higher number of not rated trails this reporting period
	Construction													
15	Construction	1	How many construction projects occurred within the SVRA in the past reporting year?	Number of construction projects:	N/A - Goal is to accurately track.	0	0	0	0	0	0	0	0	
16	Construction	1	What percent of construction projects had sediment control and discharge prevention related training provided to construction crews prior to the start of work?	Percent of construction projects where sediment control training was provided:	100%	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	
17	Construction	1	How many inspections were performed to assess sediment discharges from construction projects?	Number of construction project inspections:	N/A - Goal is to accurately track. Increase or decrease based on CGP Requirements or the needs of the project.	N/A	N/A	0	0	N/A	N/A	N/A	N/A	
18	Construction	4	How many construction related sediment discharges occurred in the past reporting year?	Number of construction related sediment discharges:	0	N/A	N/A	0	0	N/A	0	0	0	

Appendix C

MS4 Hotspot Inspection Form

MS4 HOTSPOT INSPECTION FORM

SECTION 1: GENERAL INFORMATION			
Park Name		Hotspot	
Inspector's Name		Inspector's Title	
Consultant Company (if applicable)			
Pictures taken?		Time of Inspection	
Date of Inspection		Date Inspection Report Written	
Inspection Type (Check Applicable)	❒ Quarterly Visual ❒ Quarterly Comprehensive ❒ Other _____ ❒ Quarterly Discharge		
Weather (Check all that apply)	❒ Sunny ❒ Partly Sunny ❒ Partly Cloudy ❒ Cloudy ❒ Rainy ❒ Windy		
Most Recent Storm Data	Storm Start Date & Time		Storm Duration (hrs)
	Rain Gauge Reading (inches)		Total Storm Rainfall (inches)

SECTION 2: QUARTERLY VISUAL			
Are material/equipment storage areas clean and orderly?	❒ Yes ❒ No	Are all erosion and sediment control BMPs installed and maintained according to the SWPPP?	❒ Yes ❒ No
If either of the questions above are answered "No," complete Section 5; otherwise skip to Section 6, "Additional Notes".			

SECTION 3: QUARTERLY COMPREHENSIVE			
Are all waste storage areas clean and free of litter?	❒ Yes ❒ No	Are all dumpsters properly maintained and emptied on a regular basis?	❒ Yes ❒ No
Are vehicle/equipment fueling areas free of any spills/leaks?	❒ Yes ❒ No	Are all material handling areas clean and orderly?	❒ Yes ❒ No
Are all public areas clean and free of litter?	❒ Yes ❒ No	Are all erosion and sediment control BMPs installed and maintained according to the SWPPP?	❒ Yes ❒ No
If either of the questions above are answered "No," complete Section 5; otherwise skip to Section 6, "Additional Notes".			

SECTION 4: QUARTERLY DISCHARGE						
Are there any discharges from the site?	❒ Yes ❒ No	If question is answered "Yes," complete information below; otherwise skip to "Additional Notes"				
Is the discharge…	❒ Stormwater	❒ Non-Stormwater				
Odor	❒ None	❒ Sulfide	❒ Oil	❒ Gas	❒ Rancid	❒ Other:
Color	❒ None	❒ Yellow	❒ Brown	❒ Green	❒ Red	❒ Other:
Floatables	❒ None	❒ Foam	❒ Staining	❒ Sheen	❒ Sewage	❒ Other:
Damage to Outfall Structures	❒ None	❒ Cracking	❒ Corrosion	❒ Peeling Paint		❒ Other:
Turbidity	❒ Clear	❒ Cloudy	❒ Opaque			❒ Other:
Vegetation	❒ Normal	❒ Excessive Growth		❒ Inhibited Growth		❒ Other:

SECTION 5: GENERAL COMMENTS

Describe material/ equipment storage area deficiencies: _____

Measures taken to correct material/equipment storage area deficiencies: _____

Describe BMP deficiencies: _____

Measures taken to correct BMP deficiencies: _____

Describe site discharges: _____

Measures taken to control site discharges: _____

SECTION 6: ADDITIONAL NOTES

Additional Notes: _____

Date Corrective Measures Identified		Date Corrective Measures Implemented	

Sign the following certification:

"I certify that this inspection form is true, accurate, and complete, to the best of my knowledge and belief."

Signature _____

Appendix D

Trail Evaluation Form

Carnegie SVRA Trail Condition Evaluation Code Key

Category	Green	Yellow	Red
Water Control Is there rilling and/or gullying on the trail? (Rill is 1" to 6" depth, Gully is >6" depth and 12" wide)	No rilling or gullying present Water control is sufficient to divert runoff	Rilling is present but no gullying Rilling is not prevented by existing BMPs because they've been degraded and are in need of maintenance, e.g. existing rolling dip is worn down.	Gully is present and/or rilling is present Rilling is occurring because existing BMPs are inadequate and BMPs need to be added, e.g. additional rolling dips need to be added.
Erosion on the Shoulder of Trails Is there accelerated erosion occurring on the shoulder of the trail?	No accelerated erosion is occurring on the shoulder of the trail.	Rill erosion is occurring on the shoulder of the trail.	Gully erosion is occurring on the shoulder of the trail.
Tread Wear Is the tread showing signs of wear?	Tread wear is minimal. Tread is compacted and easy to transverse.	Tread wear is evident. Tread is loose and challenging to transverse for over 1/3 of the trail or trail segment.	Tread wear is severe. Tread is loose and challenging to transverse for over 2/3 of the trail or trail segment.
Tread Widening Is the trail wider than designed?	Trail is not wider than designed or trail is wider but not more than 1.5 times wider.	Trail is 2 times wider but not greater than 3 times wider than designed for over 1/3 of the trail or trail segment.	Trail is 3 times or more wider than designed for over 1/3 of the trail or trail segment.
Off-trail Travel Are there unauthorized trails or routes that intercept this trail? *Mark as green if in an open riding area	No unauthorized trails or routes are occurring along this trail.	Unauthorized trails or routes are occurring off trail. Unauthorized trails or routes are **not** effecting the trail design.	Unauthorized trails or routes are occurring off trail. Unauthorized trails or routes are effecting the trail design.

Cause Codes			
C1	Water breaks/rolling dips not constructed to design standards	**C11**	Rocks or roots exposed in tread
C2	Water breaks/rolling dips spacing too wide for conditions	**C12**	Barriers (natural or constructed) to control traffic is lacking
C3	Cascading runoff from a trail or road upslope	**C13**	Mechanical erosion makes maintenance ineffective
C4	Cascading runoff from an impervious surface upslope	**C14**	Excessive tread width
C5	Wet area caused by a seep or spring	**C15**	Design/layout/construction prevents effective drainage
C6	Excess soil moisture at time of use	**C16**	Uncompact side cast on outboard slope
C7	Trail section is poorly located	**C17**	Berms, whoops, and stutter bumps
C8	Trail gradient is too steep for the type and/or amount of use occurring	**C18**	Crossing alters channel dimensions and/or stream gradient
C9	Segment is not designed for the type or amount of use occurring	**C19**	Rutting or vegetation damage to sensitive habitat
C10	Trail blockage, e.g. brush, logs, rock fall, landslide	**C20**	Excessive tread wear

Calculating the Overall Rating			
	Green	**Yellow**	**Red**
	1 point/each	**2 points/each**	**3 points/each**
1			
2			
3			
4			
5			
Total for each row			
Total for all rows (Overall Rating)			

Overall Rating	
Green	0-5 Points
Yellow	6-10 Points
Red	11-15 Points

Trail Width	
Single Track	24 inches
Single Track-SWECO Maintained	48 Inches
Quad	48 Inches
Full Size Vehicle	96 Inches

Carnegie SVRA Trail Evaluation by Zone Code Key

Category	No Maintenance	Low Level Maintenance	High Level of Maintenance
Vegetation Cover How much vegetation cover is in the zone or sub-zone?	More than 90 percent of the zone or sub-zone has vegetation cover.	More than 70 percent but less than 90 percent of the zone or sub-zone has vegetation cover.	Less than 70 percent of the zone or sub-zone has vegetation cover.
Soil Loss Are there signs of soil loss/accelerated erosion in the zone or sub-zone?	Minimal signs of accelerated erosion occurring within the zone or sub-zone. Some rilling may be occurring but no gullying. Rills are **less than** five linear features.	Signs of accelerated erosion occurring in the zone or sub-zone. Erosion is in the form of rilling but no gullying. Rills are **more than** five linear features.	Signs of accelerated erosion occurring in the zone or sub-zone. Erosion is in the form of gulling.
Erosion in Drainage Is the drainage downhill and/or within the zone or sub-zone experiencing accelerated erosion?	No accelerated erosion in drainage(s)is occuring or there is no drainage feature within or adjacent to the zone or sub-zone.	Accelerated erosion occurring in the drainage(s) in the form of rilling.	Accelerated erosion occurring in the drainage(s) in the form of gullying.
Tread Wear (Non-Named Trails) Are the trail's tread showing signs of wear?	Only Named Trails Exist in zone or sub-zone- **-OR--** Tread wear is minimal. Tread is compacted and easy to transverse.	Tread wear is evident. Tread is loose and challenging to transverse for over 1/3 of the non-named trails in the zone or sub-zone.	Tread wear is severe. Tread is loose and challenging to transverse for over 2/3 of the non-named trails in the zone or sub-zone.

Cause Codes

C1	Water breaks/rolling dips not constructed to design standards	**C11**	Rocks or roots exposed in tread
C2	Water breaks/rolling dips spacing too wide for conditions	**C12**	Barriers (natural or constructed) to control traffic is lacking
C3	Cascading runoff from a trail or road upslope	**C13**	Mechanical erosion makes maintenance ineffective
C4	Cascading runoff from an impervious surface upslope	**C14**	Excessive tread width
C5	Wet area caused by a seep or spring	**C15**	Design/layout/construction prevents effective drainage
C6	Excess soil moisture at time of use	**C16**	Uncompact side cast on outboard slope
C7	Trail sections are poorly located	**C17**	Berms, whoops, and stutter bumps
C8	Zone gradient is too steep for the type and/or amount of use occurring	**C18**	Crossing alters channel dimensions and/or stream gradient
C9	Zone is not designed for the type or amount of use occurring	**C19**	Rutting or vegetation damage to sensitive habitat
C10	Trail blockage, e.g. brush, logs, rock fall, landslide	**C20**	Excessive tread wear

Calculating the Overall Rating			
	No Mainenance	**Low Level**	**High Level**
	1 point/each	**2 points/each**	**3 points/each**
1			
2			
3			
4			
Total for each row			
Total for all rows (Overall Rating)			

Trail Evaluation by Zone

Trail or Zone Condition	
No Maintenance	0-4
Low Level	5-8
High Level	9-12

Dranage: Refers to either a watercourse or swale.

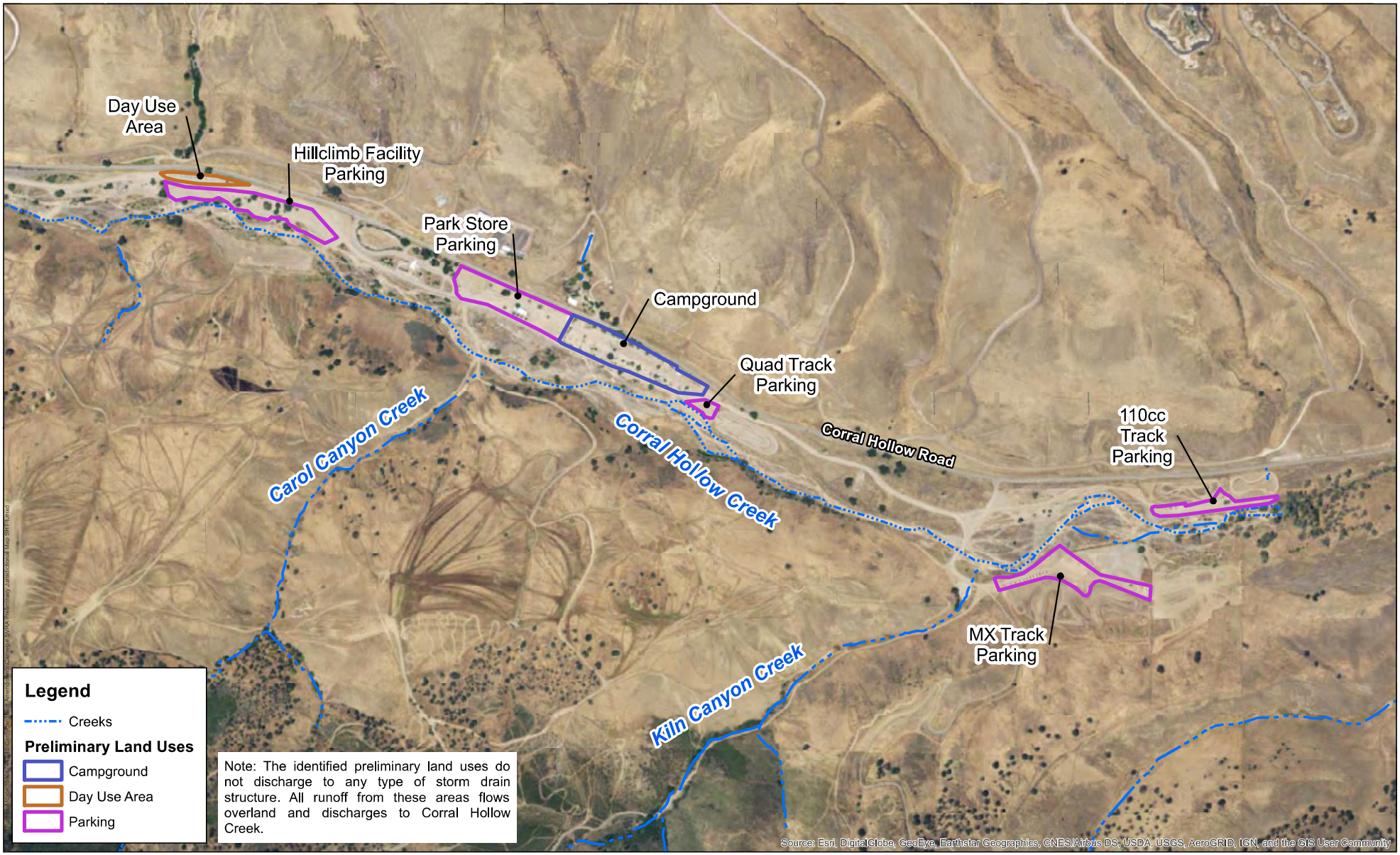
Gully: An erosion channel cut into the soil along a line of water flow with a minimumdepth o f 6 inches and cross-sectional area of one square foot. Schwab et al, 1993, Soil and Water Engineering USDA, 1993, Soil Survey Manual; USDA, 1993, Soil Survey Manual; and CDF Hillslope Monitoring Study

Rill: An erosion channel cut into the soil along a line of water flow greater than 1 inch and less than 6 inches deep. CDF Hillslope Monitoring Program

Swale: A low-lying or depressed and often wet stretch of land; (Merriam Webster)

Watercourse: Any well-defined channel with distinguishable bed and bank showing evidence of having contained flowing water indicated by deposit of rock, sand, gravel, or soil, including but not limited to, streams as defined in PRC 4528 (f). FPRs, 2005, Title 14 CCR 895.1 Definitions

Appendix E
On-land Visual Trash Assessment Forms



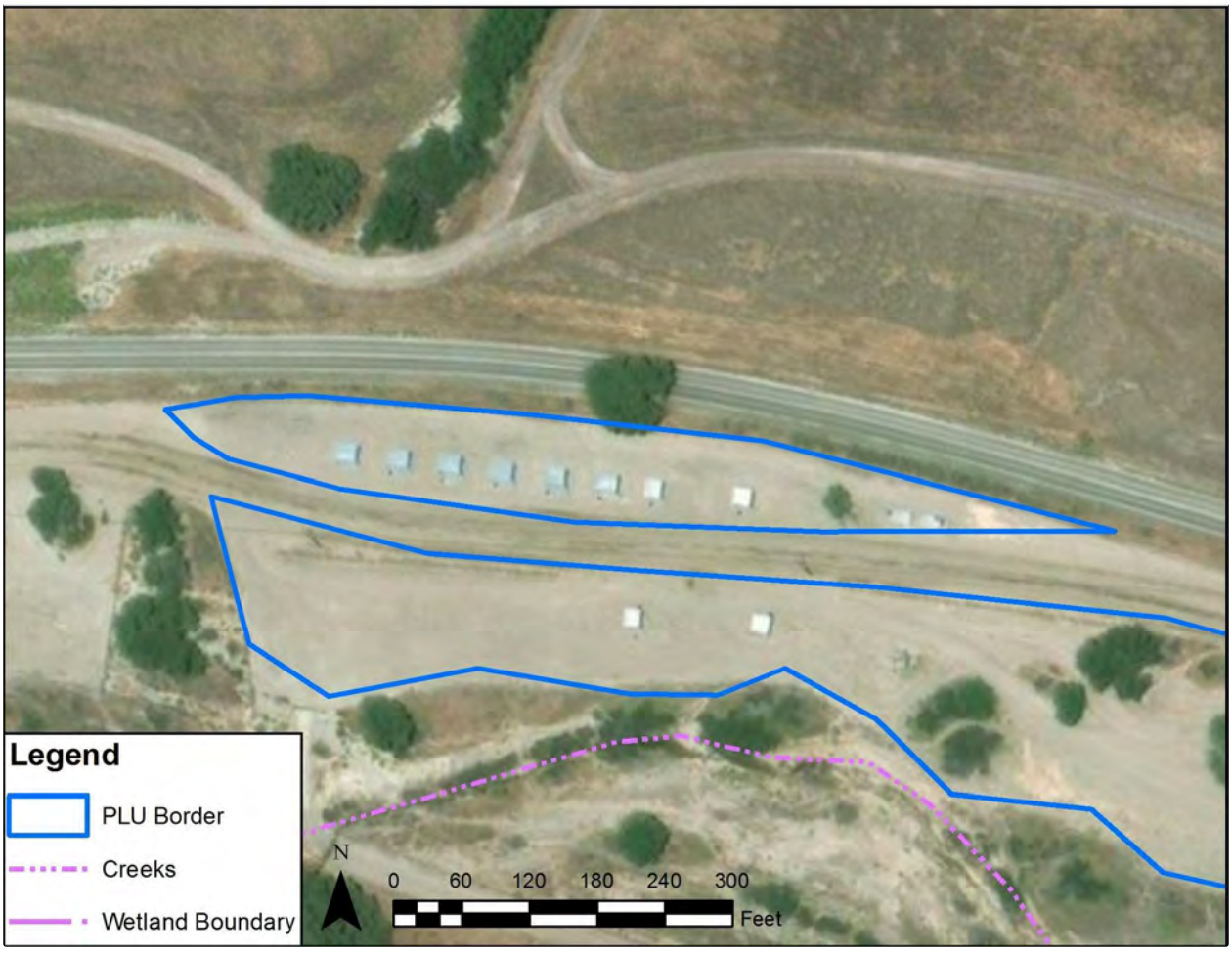
Michael Baker INTERNATIONAL

0 500 1,000 2,000 Feet

Carnegie SVRA Preliminary Jurisdictional Map

On-Land Visual Trash Assessment Form Assessment ID: Day Use Area

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

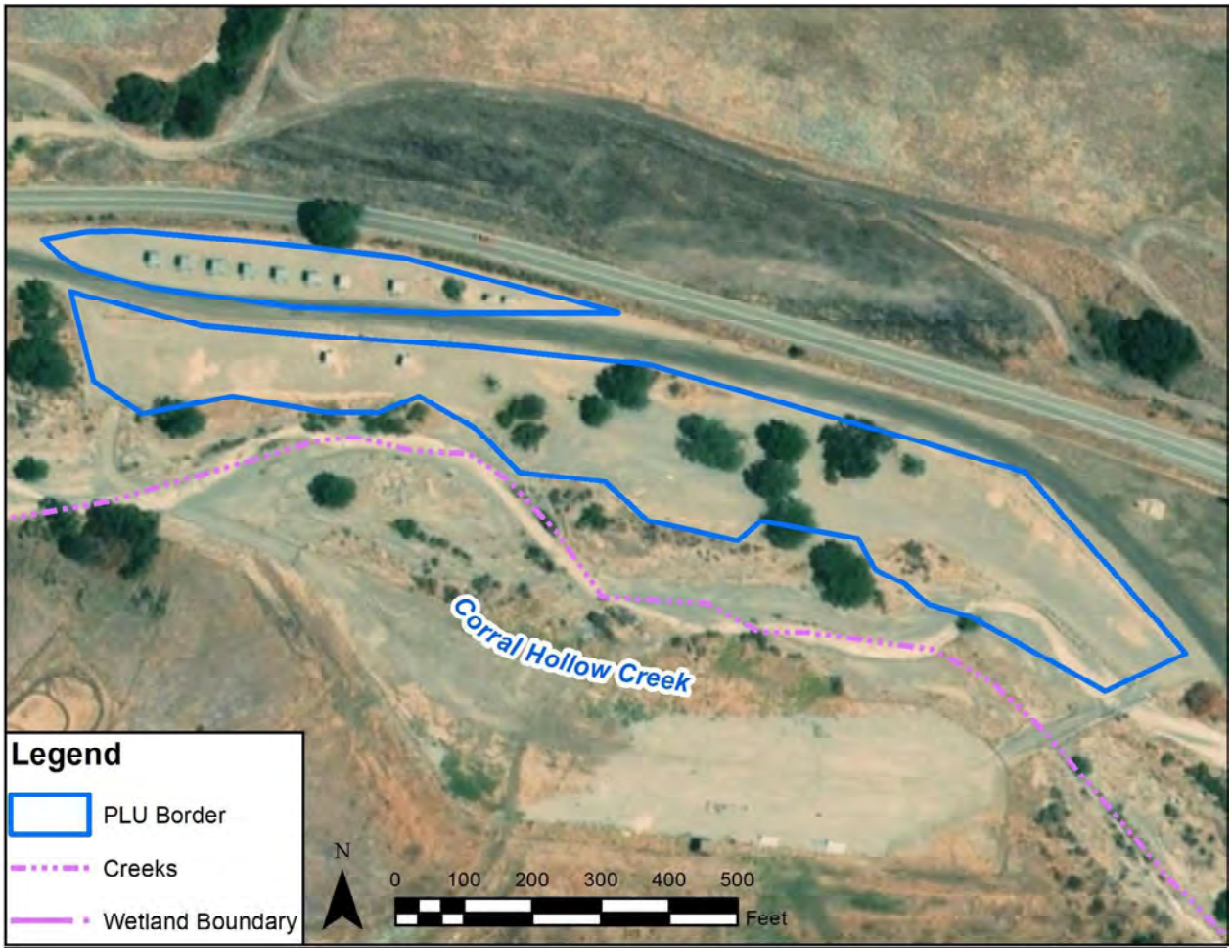
Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form

Assessment ID: Hillclimb Facility Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

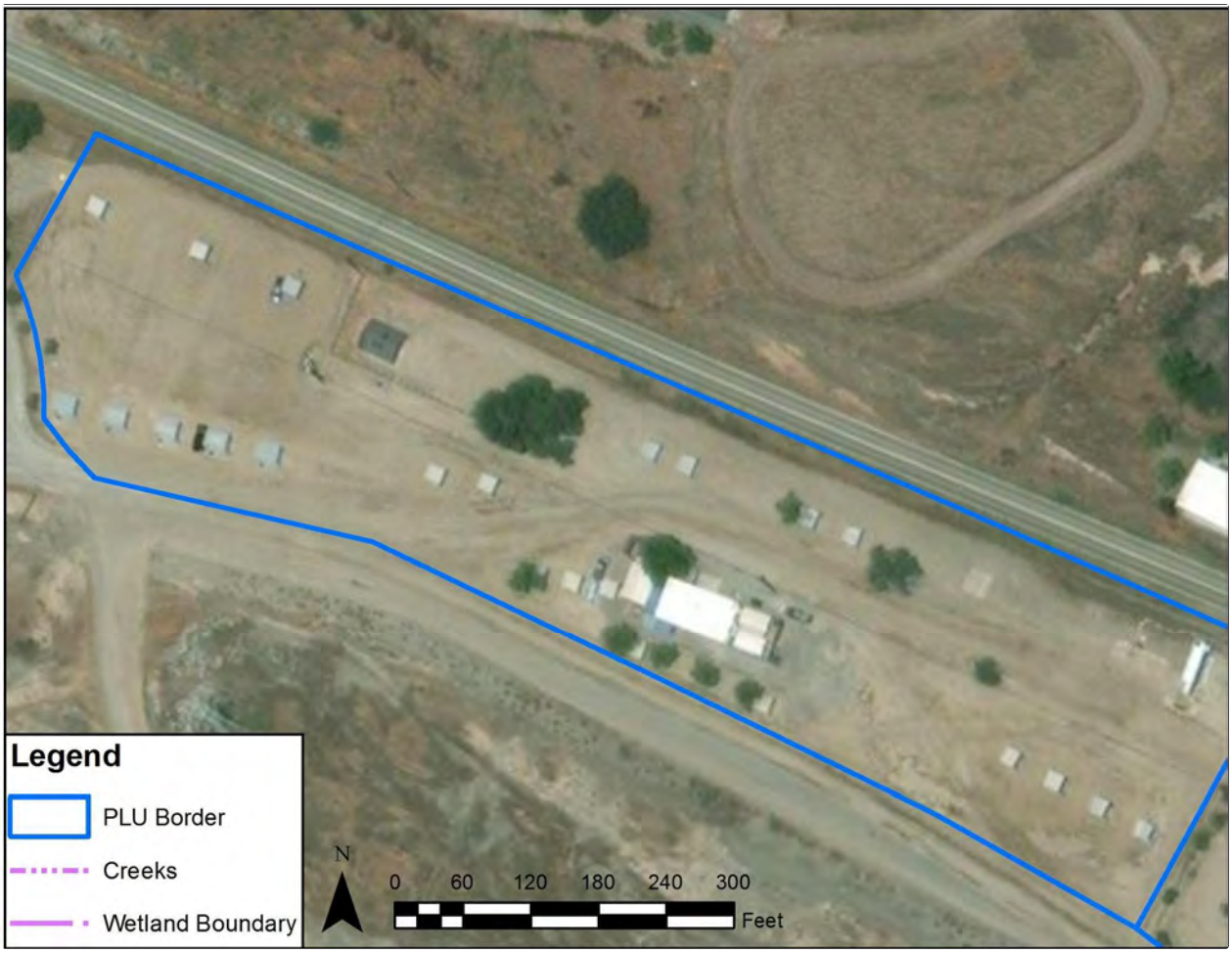
Comments: _____

_____

_____

On-Land Visual Trash Assessment Form Assessment ID: Park Store Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

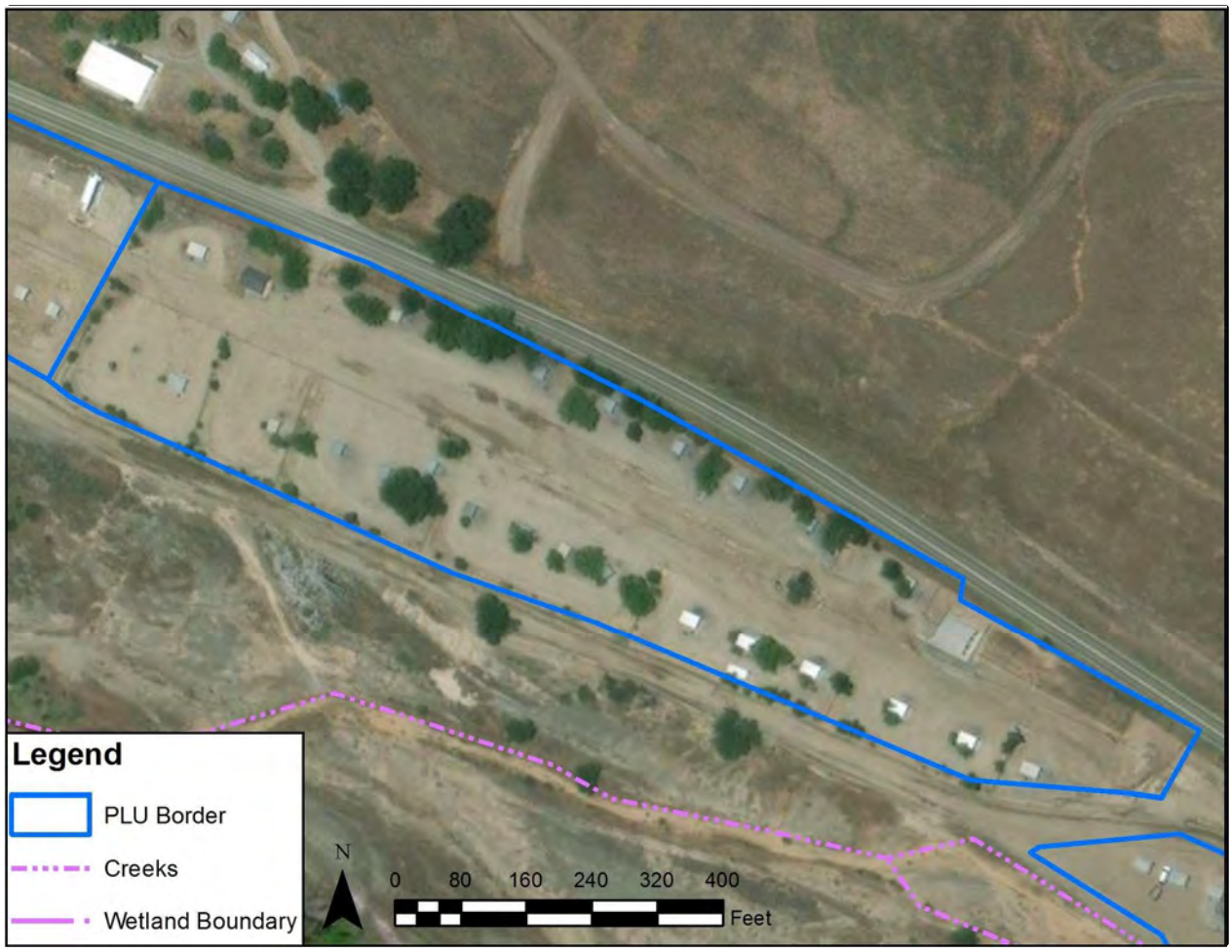
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: Campground

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: Quad Track Parking

Staff: _____ Date: _____ Duplicate: ☐

Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

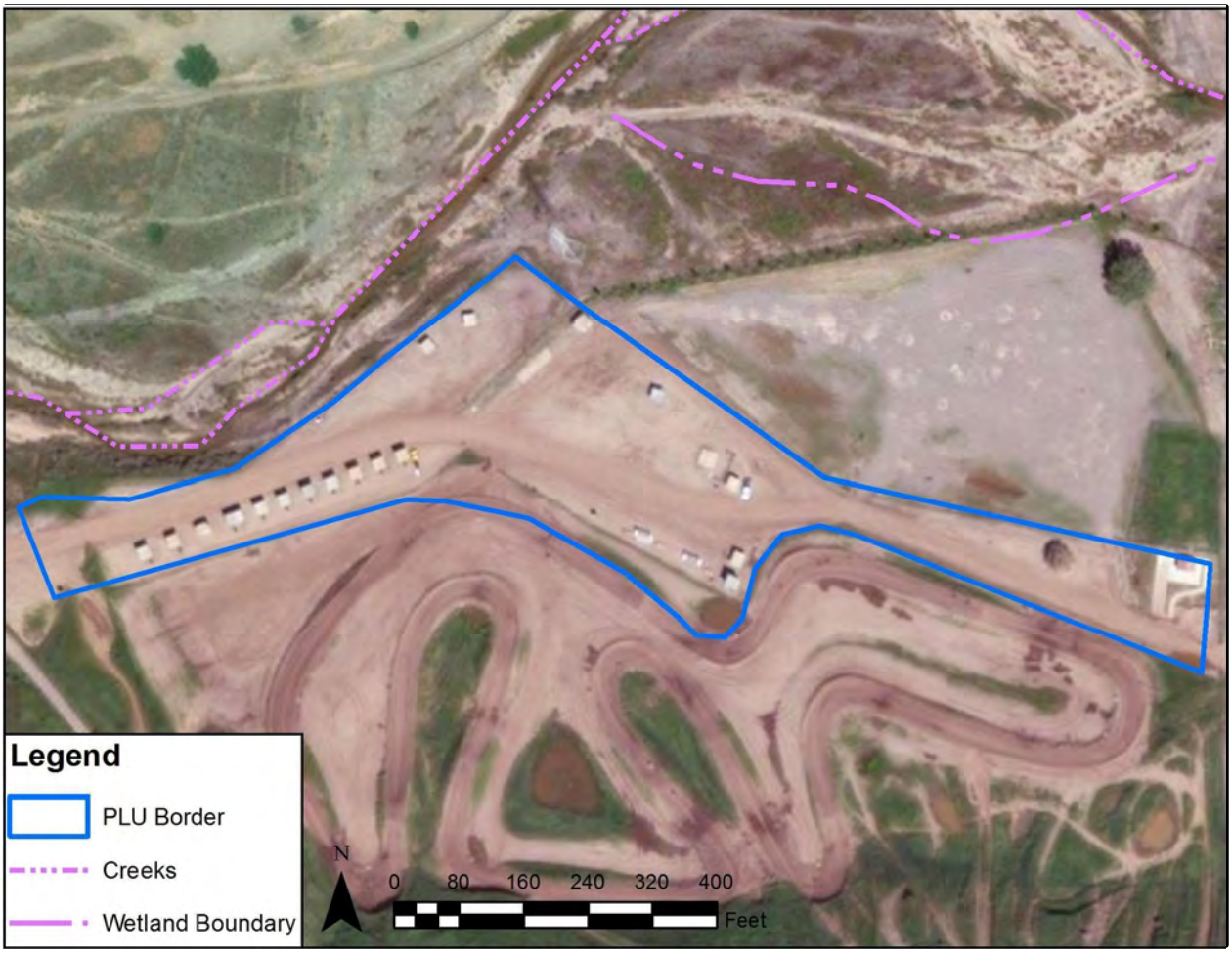
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: MX Track Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

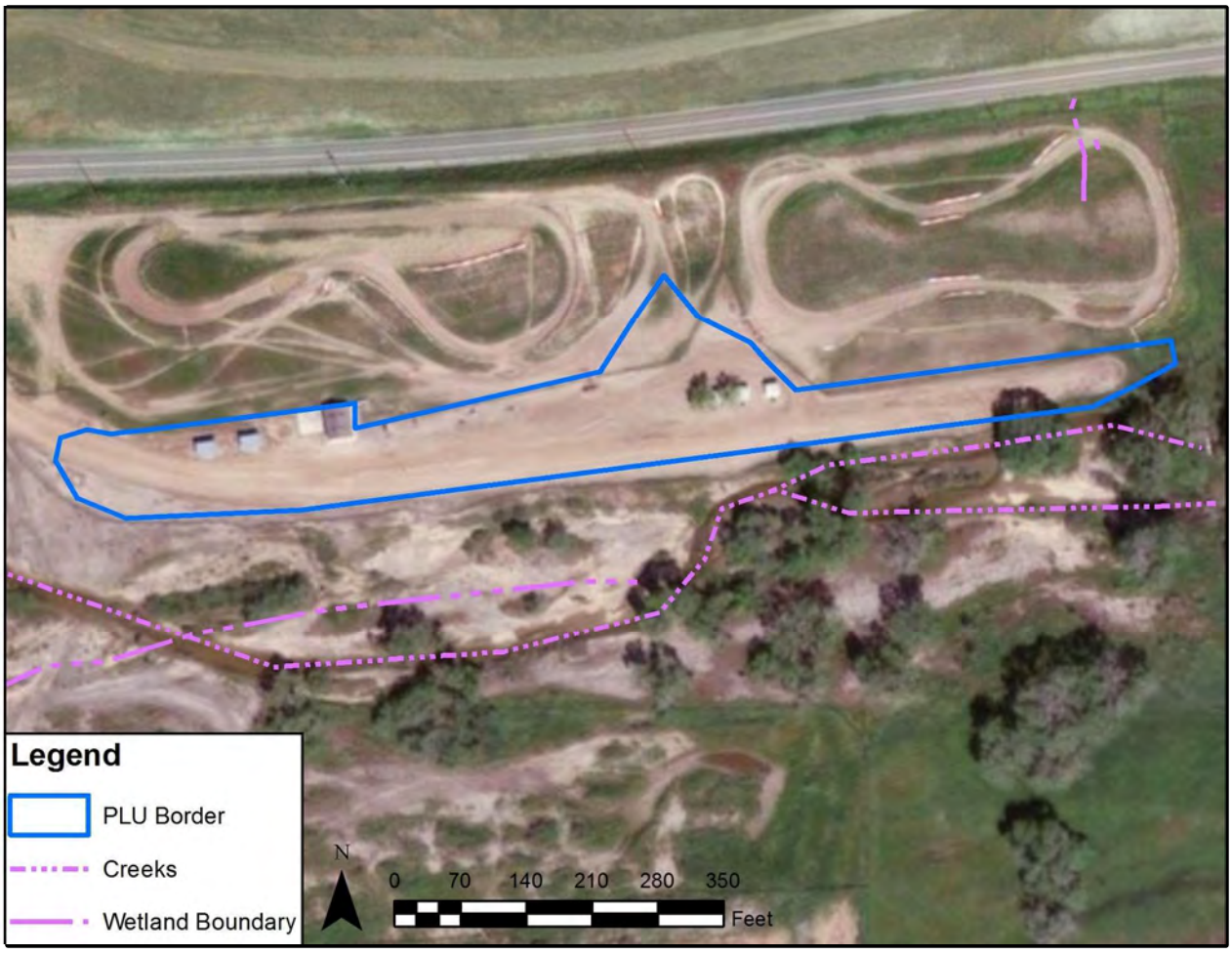
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments: _____

On-Land Visual Trash Assessment Form Assessment ID: 110cc Track Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

Appendix B

Public Education and Outreach Material

State Vehicular Recreation Area
Carnegie

Carnegie Storm Water Management Plan: What You Can Do To Protect Water Quality

Carnegie SVRA has created a Storm Water Management Plan to improve the quality of the water that flows through the park. Help us keep Carnegie open for future generations by learning about what you can do to protect water quality.

Here are the things that can damage water quality at Carnegie and some easy things you can do to prevent pollution:

Pathogens cause diseases in people and animals that touch or drink the water. They come from human and animal waste.

What you can do to help reduce pathogens in water:

- Dispose of pet waste in the trash/toilet
- Stop septic tank leaks in your RV
- Never empty your RV tank in the park
- Always use park bathrooms or bury waste

Trash and biodegradable organic matter (such as food waste) left behind by people will lower water quality and make water smell bad.

What you can do to help reduce trash and organic debris:

- Always dispose of trash in trashcans
- Do not let plastic bags and trash blow away

Sediments cover and damage plants and destroy animal habitats. Sediments are the dirt that wash down the hills and end up in the stream.

What you can do to help reduce sediments:

- Stay on designated and existing trails only
- Ride through water only at designated crossings
- Stay out of the streambed, even when it is dry, so plants can keep soil around them and grow

Heavy metals and petroleum hydrocarbons accumulate over time in the bodies of animals that live in the water, poisoning them. Heavy metals are found in OHV parts and can end up in water through vehicle wear. Petroleum products are fuel, oil, grease, and tires. They pollute water through spills and leaks, wearing of tires, and vehicle exhaust.

What you can do to help reduce heavy metals and petroleum hydrocarbons:

- Keep your off-highway vehicle well maintained. Make sure all parts are securely attached and nothing leaks
- Replace your worn OHV tires and always recycle them

Your work at reducing pollution at Carnegie has a huge effect on the park's ability to continue to provide a high quality recreational opportunity. Help us keep this a great place to ride and have fun.

Carnegie SVRA: Building a tradition of responsible recreation

Storm Water Management Plan For Carnegie SVRA:

What You Can Do To Protect Water Quality

Carnegie SVRA has a Storm Water Management Plan to maintain water quality and to address water issues that may occur in the park. You can help maintain clean water by following park rules and regulations.

HERE ARE SOME THINGS THAT CAN IMPACT WATER QUALITY AT CARNEGIE SVRA AND SOME EASY THINGS YOU CAN DO TO PREVENT POLLUTION:

Heavy metals and petroleum hydrocarbons accumulate over time in the bodies of animals that live in the water, which can poison them. Heavy metals, such as copper, zinc and chromium can end up in water through vehicle wear. Petroleum products, including fuel, oil, grease and tires can pollute water and harm wildlife.

What you can do to help reduce heavy metals and petroleum hydrocarbons:

- Keep your vehicles well maintained. It is important that vehicles don't leak or have loose parts.
- Replace your worn tires and always recycle them.

Sediment is soil that washes off the hillsides and ends up in the creek. Sediment can cover and damage plants and destroy animal habitats.

What you can do to help reduce sediment:

- Stay on existing trails only.
- Ride through water only at designated crossings.
- To protect plants and wildlife, stay out of the creek bed, even when it is dry.

Trash and biodegradable organic matter (such as food waste) cause algae to bloom, which limits sunlight and oxygen in the water. Plants and animals need the sunlight and oxygen to survive.

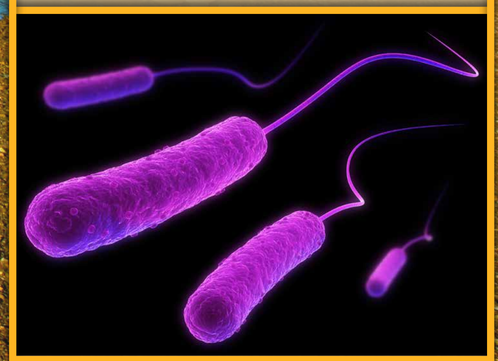
What you can do to help reduce trash and organic debris:

- Always dispose of trash in trashcans.
- Do not let plastic bags and trash blow away.

Pathogens from human and animal waste cause diseases in people and animals that touch or drink the water.

What you can do to help reduce pathogens in water:

- Dispose of pet waste in the trash or toilet.
- Repair septic tank leaks in your RV.
- Always empty your RV tank at appropriate dump stations.
- Always use park bathrooms or portable toilets.



Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation

Storm Water Management Plan For Carnegie SVRA:
Protecting Riparian Areas

Riparian habitat refers to the banks of rivers and streams. The word "riparian" is derived from Latin ripa, meaning river bank. Carnegie SVRA's riparian habitat is along the banks of Corral Hollow Creek.


Cottonwood trees

Riding in the creek bed or off trail, even when it's dry, loosens the soil which can damage plants and make the seasonal creek muddy. Some riparian animals reproduce in the water. Other area animals eat the plants and animals that live in the riparian area. All plants and animals rely on clean water, which is why the riparian habitat needs to be protected.

Thanks to permanent ground water, the cottonwood trees stay green all year. A flowering shrub called mule fat grows in the creek bed and helps keep soil in place. Both plants provide habitat for the animals that live in riparian areas


California tiger salamander


Mule fat

California tiger salamanders live in underground holes where they eat worms, snails and insects. They breed in the creek during the first winter rain, and then return to their burrows. Like frogs, the young hatch from eggs and live in the water. In the spring, as the creek starts to dry up, the baby salamanders lose their gills and develop lungs. Then they search for a burrow for their home. California tiger salamanders are considered a threatened species by both the federal and state governments. They need clean water to reproduce.


Roadrunner

Roadrunners really are fast! They can run at 20 miles per hour, and they'd rather run than fly. They'll eat just about anything that moves, including rattlesnakes. For their main diet roadrunners rely on frogs and toads that live in the riparian area. Those animals need clean water to breed and thrive.


Desert cottontail

Desert cottontail rabbits can sometimes be found in the plants along Corral Hollow Creek. Their light grayish-brown fur helps them blend in with the scenery at Carnegie SVRA, but when they hop away you can see their white cotton ball tail. Birds of prey, coyotes and bobcats all eat desert cottontails. Cottontails survive in this dry canyon by getting their water from the grasses and other plants they eat. These plants need clean water to grow.


California poppy

Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation


Blue oak

Storm Water Management Plan For Carnegie SVRA:

Protecting Oak Woodlands

In the summer, the shadiest parts of Carnegie SVRA are the oak woodland, which can be found in Dead Cow Canyon, Happiness Trail and parts of Los Osos. Valley, blue and coast live oaks are the most common woodland trees at the park. Valley oaks and blue oaks lose the leaves in winter, while coast live oaks are evergreen. Animals living in this habitat depend on the oaks for food, shelter and shade.

Oak tree roots are easily damaged when the soil around them is compacted. Compaction can occur when vehicles are driven over roots. This causes the trees to weaken and makes them susceptible to disease. Riding off trails can cause water to flow down the ruts created by this illegal activity, which diverts water from where it is most needed. Trees and other vegetation keep soil in place and help prevent erosion. Staying on trails helps to keep parks healthy.

American badgers will eat just about anything that moves, but they mainly prey on animals that eat acorns, like pocket gophers and squirrels. Badgers are excellent diggers, and dig out the dens of their prey as well as creating burrows for themselves. You probably won't see a badger at Carnegie, since they're mostly active at night.

Acorn woodpeckers use their tough beaks to make holes in trees. In the fall, they stuff these holes with acorns. A group of woodpeckers will use a single tree to store food for the winter and spring, called a granary tree. Acorn woodpeckers rely on mature oak trees for food, food storage and nesting. Did you know that Woody Woodpecker's song was modeled on the acorn woodpecker?


American badger


Columbian black-tailed deer


Acorn woodpecker


Northern alligator lizard

Deer can be found in Carnegie SVRA's oak woodlands eating acorns and oak seedlings, or resting in the leaf litter under the trees. If you spend any time in the hills at Carnegie SVRA, you've probably seen them. In the spring you might see does with their fawns.

Alligator lizards especially enjoy the cool, damp areas under oak trees. They hide under bark and rocks or in rotten logs. If they're threatened, they shed their tail. But don't worry; they can grow a new one! Insects, snails and worms make up the alligator lizard diet. If you see one, don't try to pick it up; they bite!

Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation

California State Parks Since 1864
OHV

Storm Water Management Plan For Carnegie SVRA:

Protecting Grasslands


Native blue eyed grass

Grasslands in California are abundant. Because we don't get much rain in the canyon, grasslands in Carnegie SVRA are only green for a short time each year. Carnegie SVRA's grassland includes Pottery Loop, Bunkhouse Trail and Juniper Trail. Springtime is a good time to look for wildflowers like California poppies and baby blue eyes.

Plant root systems help keep the soil in place when it rains so the soil doesn't wash into Corral Hollow Creek. Animals you might see in grasslands are either looking for grass seeds or hunting the seed eaters. Either way, these animals depend on grasslands for food and shelter.

The San Joaquin coachwhip is a coral colored snake that lives in the burrows of other animals. Their skinny tails look like whips, which is how they got their name. Like most snakes they eat rodents, smaller reptiles and insects that live in the grasslands. The coachwhip is a species of special concern because urban and agricultural growth is reducing grassland habitat.

If you're lucky, you might see a golden eagle soaring above the grasslands looking for a rodent or snake to eat. The golden eagle has one of its highest population densities in Livermore and the Altamont Pass area near the park. When flying, hawks are sometimes mistaken for golden eagles, but golden eagles are usually larger, they soar with their wings in a slight upward V shape and they sometimes have white on the underside of their wings.


San Joaquin coachwhip


Coyote


Golden Eagle


Ground squirrel

The roots of grassland vegetation help keep soil in place which can prevent erosion and help keep water clean. By protecting the grasslands, small animals can eat the grass seeds and not only thrive, but provide food for bigger animals. Staying on trails is not just the law, it's the right thing to do because it helps keep the grassland from being damaged.

The golden-brown fur of a coyote helps them blend in with dry grasslands. Coyotes like to eat rabbits, mice and squirrels which are found in tall grasses. If you camp at Carnegie SVRA, listen for the coyotes "talking" to each other by howling at night.

Ground squirrels have it tough in the grasslands. It's a good thing that they are abundant, because all three of the other animals mentioned eat them! Ground squirrels thrive in the grasslands because there are plenty of seeds, flowers, bulbs and roots to eat.

Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation

California State Parks SINCE 1864 OHV

Storm Water Management Plan For Carnegie SVRA:

Protecting Coastal Scrub

Despite its name, coastal scrub habitat isn't always on the coast. Carnegie SVRA's coastal scrub can be found in places like Kiln Canyon and on Franciscan Loop.

Coastal scrub plants are drought-loving, adapted for fire and have shallow roots. Black sage and desert olive are two plants you'll find in the park's coastal scrub areas. Animals like the Alameda whipsnake, kangaroo rat and California thrasher are adapted for this warm, dry area with low, dense shrubs.

Alameda whipsnake

The Alameda whipsnake is a threatened species that needs the warm environment of the coastal scrub habitat. The lizards they like to eat are found in rocky parts of the coastal scrub. You might see whipsnakes on warm days in the spring and late summer, but since they hibernate, don't look for them in winter. Whipsnakes need the low brush of the coastal scrub to hide from predators like hawks and coyotes.

California thrasher

The California thrasher uses its curved beak to dig up berries and insects in the leaf litter below the sage and olive plants. You might hear this bird thrashing around in the undergrowth while it's looking for food. Because it's good at mimicking other birds, you might not recognize its song.

Kangaroo rat

Kangaroo rats are well-suited for this dry habitat because they can live their whole lives without drinking water. They get all the water they need from the sage seeds they eat. Underground burrows and low-growing coastal scrub plants provide shelter from the heat and a place to hide from predators, such as coyotes, badgers and owls.

Alameda whipsnakes, kangaroo rats and California thrashers all need the plants of the coastal scrub areas of the park for food and shelter. Stay on trails to keep coastal scrub habitats healthy. Protecting coastal scrub areas means protecting Carnegie SVRA's water quality.

Desert olive

The shallow root systems of plants in Carnegie SVRA's coastal scrub soak up rain water on the surface quickly, before the water carries soil into the gullies. When you ride in coastal scrub areas, you must stay on trails to avoid damaging plants which hold the dirt in place and prevent runoff.

Black sage

Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation

Storm Water Management Plan For Carnegie SVRA:

Eliminating Illicit Discharges

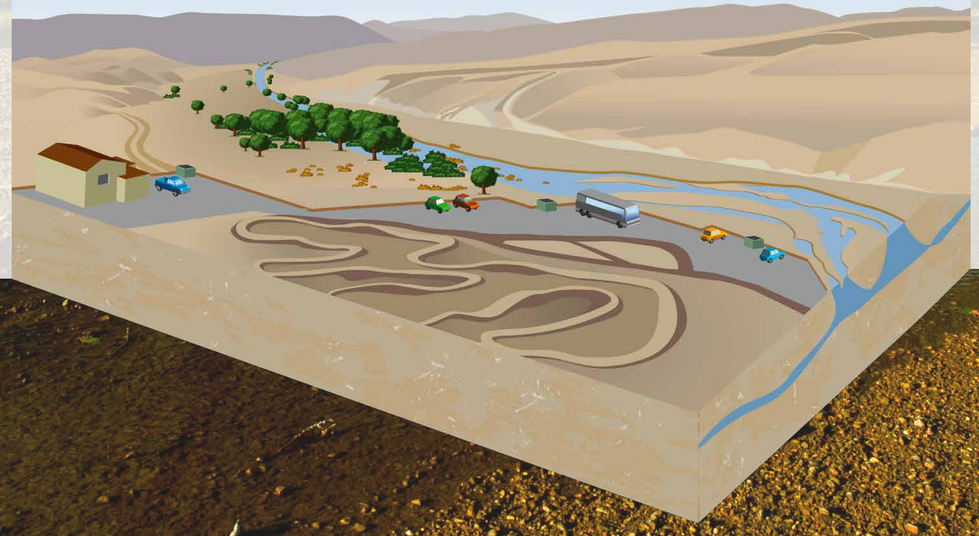
How do I prevent illicit discharges?

- Make sure your OHV is in good condition with no leaks.
- Never empty the tank from your RV in the park.
- Keep your RV's tanks maintained so they don't leak.
- When fueling or maintaining your OHV in the park, always use a drip pan or tarp.
- Never wash your vehicle in the park.
- Check that containers of fuel or oil don't leak, and replace them if they do.

What is an illicit discharge?

An illicit discharge is a spill of anything other than fresh water that reaches the creek. When it rains, things on the ground such as oil and trash are washed into the creek. Pollutants in Coral Hollow Creek can flow for many miles into the San Joaquin River, which could affect water quality and damage wildlife and habitat. For this reason it is important to avoid putting anything on the ground that would be harmful to water quality.

Some examples of illicit discharges include spilling and leaving oil, grease or trash, or emptying an RV's septic tank on the ground. Never empty any liquids onto the ground while in the park.



What do I do in case of an illicit discharge?

If you accidentally spill oil, gasoline, or grey or black water from your septic tank, or you see someone else do this, you should contact park staff at the kiosk to report it. Staff will respond with a spill kit.

Purposeful illicit discharges are illegal and punishable by fines or incarceration. If you think you may have witnessed illegal dumping, please contact park staff at the ranger station. Reports may be anonymous. The park is required to have an Illicit Discharge Detection and Elimination Program as a part of the Storm Water Management Plan.

Help keep this park a great place to ride and have fun.

Carnegie SVRA:
Building a tradition of responsible recreation

State Vehicular Recreation Area
Carnegie

Kiln Canyon and SRI Rehabilitation Projects

The Corral Fire

On Thursday, August 13, 2009, just after 1:00 p.m., a fire broke out on private land south of Carnegie SVRA. At Carnegie approximately 80 acres of land were lost to riding, including the eastern portion of Kiln Canyon and the lands above the motocross track and 4X4 area.

When the fire was out recovery began. The burned area needed time for recovery with no human impacts. 2009-10 winter rain made everything green, but it took a long time before recovery was complete. Riders staying out of the burned area allowed the plants to grow back, which stopped hillside erosion and provided food and shelter for animals.

Park staff worked hard in the closed area. Fire crew bulldozer trails were re-seeded. Some of the riding trails were made safer and better, and gullies and sink holes were filled in.

The success of the Kiln Canyon rehabilitation is due to the cooperation of park visitors, staff, and nature, all working together.

SRI Rehabilitation

Carnegie re-opened SRI Loop trail after a recent rehabilitation. The project was started in January of 2010 to fix badly eroded hillsides, fill in gullies, and recondition the trails.

Rehabilitation included moving soil with heavy equipment and filling in and compacting volunteer trails and gullies so the water can naturally flow off the hill. The hill was fertilized and covered with mulch and native grass seed. Straw was installed to keep the soil and seed in place. Rock dams were put in to lessen the storm water runoff.

Grasses are growing back nicely on SRI hill, but it is important to stay off the hill and stay on the trails.

Projects like the SRI rehabilitation allow Carnegie to provide great recreation opportunities by caring for the environment.

State Vehicular Recreation Area
Carnegie

Los Osos Climb

In 2015 this area was closed and rehabilitation work begun due to unsustainable trails and erosion. The lack of plant life on the hill made water coming off the hill move so fast that it eroded stable vegetated areas downstream, causing gullies.

Now that the area has been rehabilitated and vegetation established, it's ready to ride. As with all Resource Management Areas, it's important to stay on trail. This area has six different climbs, each with its own flag colors and its own crossing. Stay between the flags on your climb, as going out of the flags is off-trail. Use designated crossings to avoid obstacles.

Unlike other areas of the park, this area is suitable for hillclimbing because of its high clay content and stable soils. It's also different than other RMAs because there's no trail fencing.

We're relying on YOU to stay on trail, so we don't have to build more fences.

To ask questions, give comments, or participate in future projects, contact the trails team at (925) 455-7873. Huge thanks to the Carnegie Advisory Team for helping design this area.

Carnegie SVRA: Building a tradition of responsible recreation

Wash and Maintain Your Bike at Home

Dispose of waste from gray or black water tanks at a designated dump station.

Vehicle maintenance should NOT be done on dirt surfaces where spills can leak into the ground.

Dispose of used motor oil at a designated recycling facility.

If you encounter a spill of oil, gas, or waste, let park staff know.

Dispose of Used Motor Oil at Recycling Facilities

Check your local auto shop for used motor oil recycling opportunities.

Find your nearest drop-off location at https://calrecycle.ca.gov/

RECYCLE USED OIL

CALIFORNIA STATE PARKS SINCE 1864

CalRecycle

18600 Corral Hollow Road
Tracy, CA 95376

www.ohv.parks.ca.gov

What You Can Do to Protect Water Quality

Carnegie Storm Water Visitor Information

What You Can Do to Help

You can make a difference in Carnegie's ability to provide OHV recreation for future generations by following these steps to protect water quality.

Appendix C

Pollutant Source Maps

CARNEGIE

Carnegie IDDE Map

Maintenance Yard

CARNEGIE

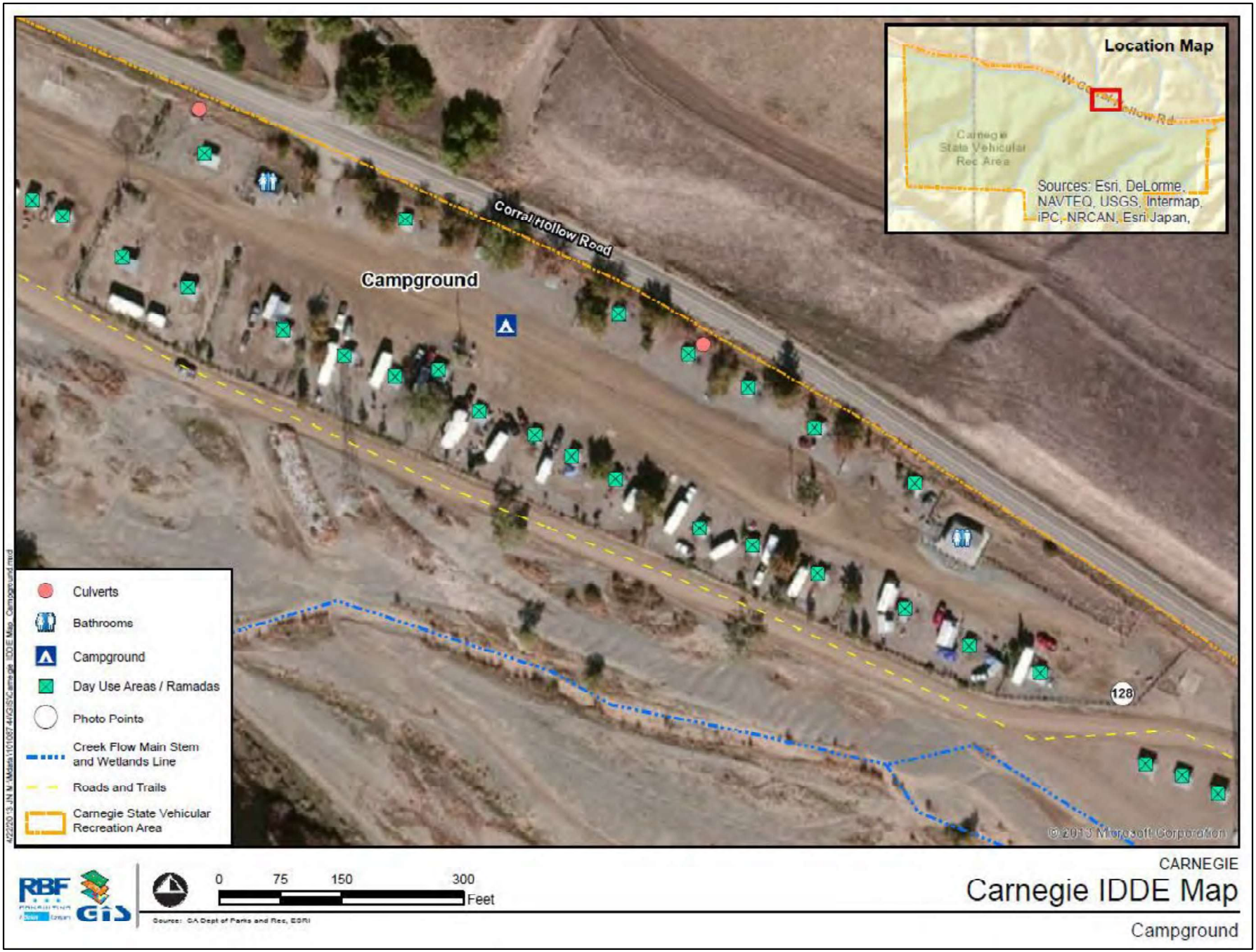
Carnegie IDDE Map

Ranger Station

CARNEGIE

Carnegie IDDE Map

Store


Location Map
Carnegie State Vehicular Rec Area
Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan,
Corral Hollow Road
Campground
128
© 2013 Microsoft Corporation
Culverts
Bathrooms
Campground
Day Use Areas / Ramadas
Photo Points
Creek Flow Main Stem and Wetlands Line
Roads and Trails
Carnegie State Vehicular Recreation Area
0
75
150
300
Feet
Source: CA Dept of Parks and Rec, ESRI
CARNEGIE
Carnegie IDDE Map
Campground


WTP
129
Water Treatment Plant
Photo Points
Creek Flow Main Stem and Wetlands Line
Roads and Trails
Carnegie State Vehicular Recreation Area
Location Map
W Corral Hollow Rd
Carnegie State Vehicular Rec Area
Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan,
0 37.5 75 150
Feet
Source: CA Dept of Parks and Rec, ESRI
CARNEGIE
Carnegie IDDE Map
Water Treatment Plant

Appendix D

IDDE Inspection Program

ILLICIT DISCHARGE, DETECTION, AND ELIMINATION (IDDE) INSPECTION FORM

SECTION 1: GENERAL INFORMATION

Park Name		Location	
Inspector's Name		Inspector's Title	
Consultant Company (if applicable)			
Photos Taken? (check all 3 boxes upon completion)	☐ Upon Detection ☐ During Elimination/Cleanup ☐ After Elimination		
Date of Inspection		Date Inspection Report Written	
Inspection Type (Check Applicable)	☐ Routine ☐ Complaint Driven ☐ Other _____ ☐ Storm Event		
Weather (Check all that apply)	☐ Sunny ☐ Partly Sunny ☐ Partly Cloudy ☐ Cloudy ☐ Rainy ☐ Windy		
Most Recent Storm Data	Storm Start Date & Time		Storm Duration (hrs)
	Rain Gauge Reading (inches)		Total Storm Rainfall (inches)
Outfall Identification Number (Reference Outfall Maps)			
Outfall Location			
Receiving Waterbody			

SECTION 2: ILLICIT DISCHARGE DETECTION

Active illicit discharge detected?	☐ Yes ☐ No	Evidence of a past illicit discharge detected?	☐ Yes ☐ No

If either of the questions above are answered "Yes," complete information below, otherwise skip to next Section

Qualitative Observations (Check all that Apply)						
Odor	☐ None	☐ Sulfide	☐ Oil	☐ Gas	☐ Rancid	☐ Other:
Color	☐ None	☐ Yellow	☐ Brown	☐ Green	☐ Red	☐ Other:
Floatables	☐ None	☐ Foam	☐ Staining	☐ Sheen	☐ Sewage	☐ Other:
Damage to Outfall Structures	☐ None	☐ Cracking	☐ Corrosion	☐ Peeling Paint		☐ Other:
Turbidity	☐ Clear	☐ Cloudy	☐ Opaque			☐ Other:
Vegetation	☐ Normal	☐ Excessive Growth		☐ Inhibited Growth		☐ Other:

Quantitative Observations	
Estimated Flow Rate (cfs)	
Estimated Discharge Volume (gal)	

SECTION 3: INVESTIGATION AND ELIMINATION

Source of Discharge:
(Check all that apply)

- ☐ Sewage Dump Station
- ☐ Campground
- ☐ Bathroom
- ☐ Waste Disposal Bin
- ☐ Homeless Encampment
- ☐ Concessionaires
- ☐ Maintenance Yard
- ☐ Illegal Waste Dumping (location):
- ☐ Other:
- ☐ Other:

Is discharge an immediate threat to human or environmental health?

- ☐ **No** (continue to next section)
- ☐ **Yes (sanitary sewage, petroleum products, or harmful chemicals)**

IF YES, IMMEDIATELY CONTACT LOCAL HEALTH DEPARTMENT

Measures taken to stop illicit discharge:
(Document with photos)

Measures taken to mitigate impacts caused by illicit discharge:
(Document with photos)

Measures taken to prevent future illicit discharges:

Date Corrective Measure Identified		Date Corrective Measure Implemented	

Investigation completed within 72 hours of detection?
(if "No", document actions being taken to eliminate discharge)

- ☐ Yes
- ☐ No (document actions):

Additional Notes:

Sign the following certification:

"I certify that this inspection form is true, accurate, and complete, to the best of my knowledge and belief."

Signature _____

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	CARNEGIE SVRA	**Name of Inspector**	ELIZABETH GUTBERLET
Date	9/26/22	**Title of Inspector**	ENV SCIENTIST

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Storm Drain System Maintenance	**Location within Park**	Storm Drain Facilities
Potential Pollutants Associated with O&M Activity	Green Waste, Sediment, Trash, Metals, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-74 (Drainage System Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Storm Drain Systems are maintained as necessary prior to the rainy season.	(3)	2	1	BASIN CLEARING IN FALL
The drainage infrastructure is cleaned in a manner that ensures accumulated green waste, debris and sediment is not discharged to the system.	(3)	2	1	
Dry cleanout methods are used whenever possible.	(3)	2	1	
All water from removed waste materials or from cleanout activities is prevented from re-entering the MS4.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	9/26/22	**Title of Inspector**	ENV Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Trail Maintenance and Restoration	**Location within Park**	Park Trails
Potential Pollutants Associated with O&M Activity	Sediment, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance); SC-60 (Housekeeping Practices)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Green wastes from trail maintenance operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
Disturbed sediment is either removed from site or compacted to the maximum extent practicable.	(3)	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	CARNEGIE SVRA	**Name of Inspector**	LIZ GUTBERLET
Date	9/26/22	**Title of Inspector**	ENV SCIENTIST

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Fueling	**Location within Park**	Maintenance Yard Fueling Station
Potential Pollutants Associated with O&M Activity	Gasoline, Diesel, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium (circled)	High (circled)
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Drip pans are used for fueling activities that may result in spills or drips.	3 (circled)	2	1	
Spill cleanup materials are readily available.	3 (circled)	2	1	
Spills or drips are cleaned immediately.	3	2	1 (circled)	DRIP FROM DIESEL HOSE
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	3 (circled)	2	1	
Trash cans are provided for convenient trash disposal from vehicles.	3 (circled)	2	1	
Trash cans are equipped with lids.	3 (circled)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Eliz Gutberlet
Date	9/26/22	**Title of Inspector**	ENV Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Washing	**Location within Park**	Maintenance Yard Wash Rack
Potential Pollutants Associated with O&M Activity	Petroleum Products, Sediment, Detergents, Trash, Wash Water (non- storm water)		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-10 (Non-Stormwater Discharges); SC-21 (Vehicle and Equipment Cleaning)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
All vehicle and equipment washing is performed in a designated washing area	(3)	2	1	
Vehicles are positioned within the wash rack to ensure all wash water drains to the clarifier treatment system, and not the storm drain.	3	2	1	NA
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	(3)	2	1	
Biodegradable or environmentally friendly detergents are used for washing activities.	(3)	2	1	
Vehicle Maintenance is never conducted in the washing area.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Liz Gutborlet
Date	9/26/22	**Title of Inspector**	ENV Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Street and Sidewalk Maintenance and Repairs	**Location within Park**	Paved Surfaces throughout the Park
Potential Pollutants Associated with O&M Activity	Sediment, Paint, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-70 (Road and Street Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Street sweeping is performed monthly to remove sediment and debris from roadways.	3	2	1	Roads blown off
Sweeping wastes and debris are promptly disposed of in a covered dumpster or landfilled. Sweeping debris is not stored or stockpiled.	3	2	1	NA
Drop cloths and drip pans are utilized during painting and striping operations.	3	2	1	NA
Wastes from asphalt or concrete repairs are well contained.	3	2	1	NA
When work is performed near an inlet, the inlet is protected with filter fabric (or equivalent method) to prevent pollutant discharges.	3	2	1	NA
Wash water from painting or concrete equipment washing is discharged to the sanitary sewer, NEVER the storm drain.	3	2	1	NA
All working areas are thoroughly cleaned of loose/excess materials to prevent mobilizations of these materials by storm water.	(3)	2	1	
All street/sidewalk maintenance and repair activities are performed during periods of dry weather.	(3)	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Eliz Gutberlet
Date	9/26/22	**Title of Inspector**	ENV Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Restroom Cleaning	**Location within Park**	Campground, Day Use Area
Potential Pollutants Associated with O&M Activity	Detergents, Sewage, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-76 (Water & Sewage Utility Maintenance);		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Restrooms are cleaned in a manner that prevents pollutant discharges.	(3)	2	1	
Detergents and other cleaners are contained and prevented from entering the storm drain system.	(3)	2	1	
Trash is bagged and contained to prevent discharges.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	CARNEGIE SVRA	**Name of Inspector**	LIZ GUTBERLET
Date	9/26/22	**Title of Inspector**	ENV SCIENTIST

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Maintenance and Repair	**Location within Park**	Maintenance Yard Vehicle and Equipment Repair Shop
Potential Pollutants Associated with O&M Activity	Petroleum Products, Metals, Oily Rags, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-22 (Vehicle and Equipment Repair); SC-32 (Outdoor Equipment Maintenance); SC-21 (Vehicle and Equipment Cleaning); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Vehicle and equipment maintenance and repair is performed indoors.	(3)	2	1	
Hazardous materials are stored under cover in organized lockers or on secondary containment trays.	(3)	2	1	
Hazardous wastes are stored under cover in designated, well contained areas.	(3)	2	1	
Drip pans are used to capture spills from leaky equipment.	(3)	2	1	
Non-toxic chemicals are used whenever possible.	3	2	1	UNKNOWN
Spill cleanup materials are readily available.	(3)	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
If wash water is used, it is discharged into the sanitary sewer and NOT the storm drain.	3	2	1	NA
Working areas are clean and well organized.	(3)	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	CARNEGIE SVRA	**Name of Inspector**	ELIZABETH GUTBERLET
Date	9/26/22	**Title of Inspector**	ENV SCIENTIST

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Fueling Equipment in the Field	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Gasoline, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	(Medium)	High
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, equipment is fueled in designated, contained areas within the Maintenance Yard prior to start of work.	(3)	2	1	
Spill-proof gas can nozzles or funnels are used for field fueling activities to prevent spills.	(3)	2	1	
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available for field activities using fuel-filled tools.	(3)	2	1	
Spills or drips are cleaned immediately.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	CARNEGIE SVRA	**Name of Inspector**	ELIZABETH GUTIERREZ
Date	9/26/22	**Title of Inspector**	ENV SCIENTIST

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vegetation Management and Landscaping	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Herbicides, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, spraying equipment is filled in the contractor's yard outside of the park boundary.	3	2	1	NA
If spraying equipment filling is required in the field, drip pans or other appropriate containment methods are utilized to prevent herbicide spills.	3	2	1	NA
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
Invasive species spraying operations are performed in a manner that prevents or minimizes pollutant discharges.	3	2	1	NA
Green wastes generated from landscaping operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Washing	**Location within Park**	Maintenance Yard Wash Rack
Potential Pollutants Associated with O&M Activity	Petroleum Products, Sediment, Detergents, Trash, Wash Water (non- storm water)		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-10 (Non-Stormwater Discharges); SC-21 (Vehicle and Equipment Cleaning)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
All vehicle and equipment washing is performed in a designated washing area	(3)	2	1	
Vehicles are positioned within the wash rack to ensure all wash water drains to the clarifier treatment system, and not the storm drain.	3	2	1	NA
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	3	(2)	1	CANS UNDER COVER
Biodegradable or environmentally friendly detergents are used for washing activities.	(3)	2	1	NO DETERGENTS
Vehicle Maintenance is never conducted in the washing area.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Fueling	**Location within Park**	Maintenance Yard Fueling Station
Potential Pollutants Associated with O&M Activity	Gasoline, Diesel, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available.	(3)	2	1	
Spills or drips are cleaned immediately.	3	(2)	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Fueling Equipment in the Field	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Gasoline, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, equipment is fueled in designated, contained areas within the Maintenance Yard prior to start of work.	3	2	1	
Spill-proof gas can nozzles or funnels are used for field fueling activities to prevent spills.	3	2	1	
Drip pans are used for fueling activities that may result in spills or drips.	3	2	1	
Spill cleanup materials are readily available for field activities using fuel-filled tools.	3	2	1	IN FIELD VEHICLES
Spills or drips are cleaned immediately.	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	3 = BMPs are in place and effective at preventing pollutant discharges	2 = Some BMPs are in place, but improvements are needed	1 = BMPs are not in place or not effective; corrective actions required

INTERVIEWED: GLEN RATHBUN

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Street and Sidewalk Maintenance and Repairs	**Location within Park**	Paved Surfaces throughout the Park
Potential Pollutants Associated with O&M Activity	Sediment, Paint, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-70 (Road and Street Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Street sweeping is performed monthly to remove sediment and debris from roadways.	3	2	1	weekly
Sweeping wastes and debris are promptly disposed of in a covered dumpster or landfilled. Sweeping debris is not stored or stockpiled.	(3)	2	1	
Drop cloths and drip pans are utilized during painting and striping operations.	3	2	1	NA
Wastes from asphalt or concrete repairs are well contained.	(3)	2	1	
When work is performed near an inlet, the inlet is protected with filter fabric (or equivalent method) to prevent pollutant discharges.	3	2	1	NA
Wash water from painting or concrete equipment washing is discharged to the sanitary sewer, NEVER the storm drain.	3	2	1	NA
All working areas are thoroughly cleaned of loose/excess materials to prevent mobilizations of these materials by storm water.	(3)	2	1	
All street/sidewalk maintenance and repair activities are performed during periods of dry weather.	(3)	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Trail Maintenance and Restoration	**Location within Park**	Park Trails
Potential Pollutants Associated with O&M Activity	Sediment, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance); SC-60 (Housekeeping Practices)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Green wastes from trail maintenance operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	3	2	1	
Disturbed sediment is either removed from site or compacted to the maximum extent practicable.	3	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	3	2	1	KITS IN FIELD VEHICLES
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Storm Drain System Maintenance	**Location within Park**	Storm Drain Facilities
Potential Pollutants Associated with O&M Activity	Green Waste, Sediment, Trash, Metals, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-74 (Drainage System Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Storm Drain Systems are maintained as necessary prior to the rainy season.	3	(2)	1	BASIN CLEARING IN FALL '21
The drainage infrastructure is cleaned in a manner that ensures accumulated green waste, debris and sediment is not discharged to the system.	(3)	2	1	
Dry cleanout methods are used whenever possible.	(3)	2	1	
All water from removed waste materials or from cleanout activities is prevented from re-entering the MS4.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Restroom Cleaning	**Location within Park**	Campground, Day Use Area
Potential Pollutants Associated with O&M Activity	Detergents, Sewage, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-76 (Water & Sewage Utility Maintenance);		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Restrooms are cleaned in a manner that prevents pollutant discharges.	3	2	1	
Detergents and other cleaners are contained and prevented from entering the storm drain system.	3	2	1	
Trash is bagged and contained to prevent discharges.	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

INTERVIEWED: JESSE MARSHALL

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vegetation Management and Landscaping	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Herbicides, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, spraying equipment is filled in the contractor's yard outside of the park boundary.	3	2	1	NA
If spraying equipment filling is required in the field, drip pans or other appropriate containment methods are utilized to prevent herbicide spills.	3	2	1	NA
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	3	2	1	
Invasive species spraying operations are performed in a manner that prevents or minimizes pollutant discharges.	3	2	1	NA
Green wastes generated from landscaping operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	12/13/22	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Maintenance and Repair	**Location within Park**	Maintenance Yard Vehicle and Equipment Repair Shop
Potential Pollutants Associated with O&M Activity	Petroleum Products, Metals, Oily Rags, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-22 (Vehicle and Equipment Repair); SC-32 (Outdoor Equipment Maintenance); SC-21 (Vehicle and Equipment Cleaning); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Vehicle and equipment maintenance and repair is performed indoors.	(3)	2	1	
Hazardous materials are stored under cover in organized lockers or on secondary containment trays.	(3)	2	1	
Hazardous wastes are stored under cover in designated, well contained areas.	(3)	2	1	
Drip pans are used to capture spills from leaky equipment.	3	(2)	1	
Non-toxic chemicals are used whenever possible.	(3)	2	1	
Spill cleanup materials are readily available.	(3)	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
If wash water is used, it is discharged into the sanitary sewer and NOT the storm drain.	(3)	2	1	
Working areas are clean and well organized.	(3)	2	1	

*BMP Effectiveness Rating (for use in table above)	3 = BMPs are in place and effective at preventing pollutant discharges	2 = Some BMPs are in place, but improvements are needed	1 = BMPs are not in place or not effective; corrective actions required

INTERVIEWED: MARIO MARQUES

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Restroom Cleaning	**Location within Park**	Campground, Day Use Area
Potential Pollutants Associated with O&M Activity	Detergents, Sewage, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-76 (Water & Sewage Utility Maintenance);		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Restrooms are cleaned in a manner that prevents pollutant discharges.	(3)	2	1	
Detergents and other cleaners are contained and prevented from entering the storm drain system.	(3)	2	1	
Trash is bagged and contained to prevent discharges.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

SPOKE W/ BLAKE BYRD

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Fueling Equipment in the Field	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Gasoline, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, equipment is fueled in designated, contained areas within the Maintenance Yard prior to start of work.	(3)	2	1	
Spill-proof gas can nozzles or funnels are used for field fueling activities to prevent spills.	(3)	2	1	
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available for field activities using fuel-filled tools.	(3)	2	1	
Spills or drips are cleaned immediately.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

SPOKE W/ GLEN RATHBUN

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Street and Sidewalk Maintenance and Repairs	**Location within Park**	Paved Surfaces throughout the Park
Potential Pollutants Associated with O&M Activity	Sediment, Paint, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-70 (Road and Street Maintenance)		

Activity BMP	**BMP Effectiveness Rating * (circle one)**			**Description of Necessary Corrective Actions**
Street sweeping is performed monthly to remove sediment and debris from roadways.	3	2	1	NA
Sweeping wastes and debris are promptly disposed of in a covered dumpster or landfilled. Sweeping debris is not stored or stockpiled.	(3)	2	1	
Drop cloths and drip pans are utilized during painting and striping operations.	(3)	2	1	
Wastes from asphalt or concrete repairs are well contained.	(3)	2	1	
When work is performed near an inlet, the inlet is protected with filter fabric (or equivalent method) to prevent pollutant discharges.	3	2	1	NA
Wash water from painting or concrete equipment washing is discharged to the sanitary sewer, NEVER the storm drain.	(3)	2	1	
All working areas are thoroughly cleaned of loose/excess materials to prevent mobilizations of these materials by storm water.	(3)	2	1	
All street/sidewalk maintenance and repair activities are performed during periods of dry weather.	(3)	2	1	
	3	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Maintenance and Repair	**Location within Park**	Maintenance Yard Vehicle and Equipment Repair Shop
Potential Pollutants Associated with O&M Activity	Petroleum Products, Metals, Oily Rags, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-22 (Vehicle and Equipment Repair); SC-32 (Outdoor Equipment Maintenance); SC-21 (Vehicle and Equipment Cleaning); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Vehicle and equipment maintenance and repair is performed indoors.	(3)	2	1	
Hazardous materials are stored under cover in organized lockers or on secondary containment trays.	(3)	2	1	NEW OIL CONTAINMENT SYSTEM
Hazardous wastes are stored under cover in designated, well contained areas.	(3)	2	1	
Drip pans are used to capture spills from leaky equipment.	(3)	2	1	
Non-toxic chemicals are used whenever possible.	(3)	2	1	
Spill cleanup materials are readily available.	(3)	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
If wash water is used, it is discharged into the sanitary sewer and NOT the storm drain.	3	2	1	NA NO WASH H_2O USED IN SHOP
Working areas are clean and well organized.	(3)	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

SPOKE W/ JOHN MARTIN

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Washing	**Location within Park**	Maintenance Yard Wash Rack
Potential Pollutants Associated with O&M Activity	Petroleum Products, Sediment, Detergents, Trash, Wash Water (non- storm water)		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-10 (Non-Stormwater Discharges); SC-21 (Vehicle and Equipment Cleaning)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
All vehicle and equipment washing is performed in a designated washing area	(3)	2	1	
Vehicles are positioned within the wash rack to ensure all wash water drains to the clarifier treatment system, and not the storm drain.	3	2	1	NA NO WASH RACK
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	(3)	2	1	
Biodegradable or environmentally friendly detergents are used for washing activities.	3	2	1	NO DETERGENTS USED
Vehicle Maintenance is never conducted in the washing area.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Fueling	**Location within Park**	Maintenance Yard Fueling Station
Potential Pollutants Associated with O&M Activity	Gasoline, Diesel, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available.	(3)	2	1	
Spills or drips are cleaned immediately.	(3)	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vegetation Management and Landscaping	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Herbicides, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance)		

Activity BMP	**BMP Effectiveness Rating * (circle one)**			**Description of Necessary Corrective Actions**
Whenever possible, spraying equipment is filled in the contractor's yard outside of the park boundary.	(3)	2	1	NO HERBICIDE USE IN PARK CURRENTLY
If spraying equipment filling is required in the field, drip pans or other appropriate containment methods are utilized to prevent herbicide spills.	(3)	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
Invasive species spraying operations are performed in a manner that prevents or minimizes pollutant discharges.	(3)	2	1	
Green wastes generated from landscaping operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Trail Maintenance and Restoration	**Location within Park**	Park Trails
Potential Pollutants Associated with O&M Activity	Sediment, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance); SC-60 (Housekeeping Practices)		

Activity BMP	**BMP Effectiveness Rating * (circle one)**			**Description of Necessary Corrective Actions**
Green wastes from trail maintenance operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
Disturbed sediment is either removed from site or compacted to the maximum extent practicable.	(3)	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	2/22/23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Storm Drain System Maintenance	**Location within Park**	Storm Drain Facilities
Potential Pollutants Associated with O&M Activity	Green Waste, Sediment, Trash, Metals, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-74 (Drainage System Maintenance)		

Activity BMP	**BMP Effectiveness Rating * (circle one)**			**Description of Necessary Corrective Actions**
Storm Drain Systems are maintained as necessary prior to the rainy season.	3	(2)	1	NO PERMITS FOR 2022"
The drainage infrastructure is cleaned in a manner that ensures accumulated green waste, debris and sediment is not discharged to the system.	3	(2)	1	
Dry cleanout methods are used whenever possible.	(3)	2	1	
All water from removed waste materials or from cleanout activities is prevented from re-entering the MS4.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

***BMP Effectiveness Rating (for use in table above)**	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Maintenance and Repair	**Location within Park**	Maintenance Yard Vehicle and Equipment Repair Shop
Potential Pollutants Associated with O&M Activity	Petroleum Products, Metals, Oily Rags, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-22 (Vehicle and Equipment Repair); SC-32 (Outdoor Equipment Maintenance); SC-21 (Vehicle and Equipment Cleaning); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Vehicle and equipment maintenance and repair is performed indoors.	3	2	1	
Hazardous materials are stored under cover in organized lockers or on secondary containment trays.	3	2	1	
Hazardous wastes are stored under cover in designated, well contained areas.	3	2	1	
Drip pans are used to capture spills from leaky equipment.	3	2	1	
Non-toxic chemicals are used whenever possible.	3	2	1	
Spill cleanup materials are readily available.	3	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	3	2	1	
If wash water is used, it is discharged into the sanitary sewer and NOT the storm drain.	3	2	1	NA
Working areas are clean and well organized.	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date		**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Washing	**Location within Park**	Maintenance Yard Wash Rack
Potential Pollutants Associated with O&M Activity	Petroleum Products, Sediment, Detergents, Trash, Wash Water (non- storm water)		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-10 (Non-Stormwater Discharges); SC-21 (Vehicle and Equipment Cleaning)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
All vehicle and equipment washing is performed in a designated washing area	3	2	1	
Vehicles are positioned within the wash rack to ensure all wash water drains to the clarifier treatment system, and not the storm drain.	3	2	1	NA
Trash cans are provided for convenient trash disposal from vehicles.	3	2	1	
Trash cans are equipped with lids.	3	2	1	
Biodegradable or environmentally friendly detergents are used for washing activities.	3	2	1	NO DETERGENTS USED
Vehicle Maintenance is never conducted in the washing area.	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date		**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vehicle and Equipment Fueling	**Location within Park**	Maintenance Yard Fueling Station
Potential Pollutants Associated with O&M Activity	Gasoline, Diesel, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available.	(3)	2	1	
Spills or drips are cleaned immediately.	(3)	2	1	
Dry sweeping clean up methods are used to clean up spills or leaks on ground.	(3)	2	1	
Trash cans are provided for convenient trash disposal from vehicles.	(3)	2	1	
Trash cans are equipped with lids.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Fueling Equipment in the Field	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Gasoline, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, equipment is fueled in designated, contained areas within the Maintenance Yard prior to start of work.	(3)	2	1	
Spill-proof gas can nozzles or funnels are used for field fueling activities to prevent spills.	(3)	2	1	
Drip pans are used for fueling activities that may result in spills or drips.	(3)	2	1	
Spill cleanup materials are readily available for field activities using fuel-filled tools.	(3)	2	1	
Spills or drips are cleaned immediately.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

GLEN ROTHBUN

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Street and Sidewalk Maintenance and Repairs	**Location within Park**	Paved Surfaces throughout the Park
Potential Pollutants Associated with O&M Activity	Sediment, Paint, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	High
Applicable CASQA BMPs	SC-70 (Road and Street Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Street sweeping is performed monthly to remove sediment and debris from roadways.	3	2	1	NA
Sweeping wastes and debris are promptly disposed of in a covered dumpster or landfilled. Sweeping debris is not stored or stockpiled.	3	(2)	1	
Drop cloths and drip pans are utilized during painting and striping operations.	(3)	2	1	
Wastes from asphalt or concrete repairs are well contained.	(3)	2	1	
When work is performed near an inlet, the inlet is protected with filter fabric (or equivalent method) to prevent pollutant discharges.	3	2	1	NA
Wash water from painting or concrete equipment washing is discharged to the sanitary sewer, NEVER the storm drain.	3	2	1	NA
All working areas are thoroughly cleaned of loose/excess materials to prevent mobilizations of these materials by storm water.	(3)	2	1	
All street/sidewalk maintenance and repair activities are performed during periods of dry weather.	(3)	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Restroom Cleaning	**Location within Park**	Campground, Day Use Area
Potential Pollutants Associated with O&M Activity	Detergents, Sewage, Trash		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-76 (Water & Sewage Utility Maintenance);		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Restrooms are cleaned in a manner that prevents pollutant discharges.	(3)	2	1	
Detergents and other cleaners are contained and prevented from entering the storm drain system.	(3)	2	1	
Trash is bagged and contained to prevent discharges.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Jesse Marshall

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Trail Maintenance and Restoration	**Location within Park**	Park Trails
Potential Pollutants Associated with O&M Activity	Sediment, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-73 (Landscape Maintenance); SC-60 (Housekeeping Practices)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Green wastes from trail maintenance operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
Disturbed sediment is either removed from site or compacted to the maximum extent practicable.	(3)	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist
Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Vegetation Management and Landscaping	**Location within Park**	Throughout the Park
Potential Pollutants Associated with O&M Activity	Herbicides, Green Waste		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	Low	Medium	(High)
Applicable CASQA BMPs	SC-73 (Landscape Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Whenever possible, spraying equipment is filled in the contractor's yard outside of the park boundary.	(3)	2	1	
If spraying equipment filling is required in the field, drip pans or other appropriate containment methods are utilized to prevent herbicide spills.	(3)	2	1	
Sufficient spill cleanup materials are on hand for use in the event of a spill in the field.	(3)	2	1	
Invasive species spraying operations are performed in a manner that prevents or minimizes pollutant discharges.	(3)	2	1	
Green wastes generated from landscaping operations are properly contained and cleaned to prevent discharges to the MS4 or receiving waters.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

Quarterly O&M Activity and BMP Assessment Form

Section 1: General Information			
Park Name	Carnegie SVRA	**Name of Inspector**	Elizabeth Gutberlet
Date	5-30-23	**Title of Inspector**	Environmental Scientist

Section 2: O&M Activity and BMP Assessment Information			
O&M Activity	Storm Drain System Maintenance	**Location within Park**	Storm Drain Facilities
Potential Pollutants Associated with O&M Activity	Green Waste, Sediment, Trash, Metals, Petroleum Products		
Potential for Activity to Discharge Pollutants to Storm Water (circle one)	(Low)	Medium	High
Applicable CASQA BMPs	SC-74 (Drainage System Maintenance)		

Activity BMP	BMP Effectiveness Rating * (circle one)			Description of Necessary Corrective Actions
Storm Drain Systems are maintained as necessary prior to the rainy season.	(3)	2	1	
The drainage infrastructure is cleaned in a manner that ensures accumulated green waste, debris and sediment is not discharged to the system.	(3)	2	1	
Dry cleanout methods are used whenever possible.	(3)	2	1	
All water from removed waste materials or from cleanout activities is prevented from re-entering the MS4.	(3)	2	1	
	3	2	1	
	3	2	1	
	3	2	1	
	3	2	1	

*BMP Effectiveness Rating (for use in table above)	**3** = BMPs are in place and effective at preventing pollutant discharges	**2** = Some BMPs are in place, but improvements are needed	**1** = BMPs are not in place or not effective; corrective actions required

ILLICIT DISCHARGE, DETECTION, AND ELIMINATION (IDDE) INSPECTION FORM

SECTION 1: GENERAL INFORMATION

Park Name	Carnegie SVRA	Location	Tracy, CA
Inspector's Name	Elizabeth Gutberlet	Inspector's Title	Environmental Scientist
Consultant Company (if applicable)	N/A		
Photos Taken? (check all 3 boxes upon completion)	✓ Upon Detection	✓ During Elimination/Cleanup	✓ After Elimination
Date of Inspection	11/23/22	Date Inspection Report Written	11/28/22
Inspection Type (Check Applicable)	☐ Routine	☐ Complaint Driven	
	✓ Other Upon Discovery	☐ Storm Event	
Weather (Check all that apply)	☐ Sunny ✓ Partly Sunny ☐ Partly Cloudy ☐ Cloudy ☐ Rainy ☐ Windy		
Most Recent Storm Data	Storm Start Date & Time	11/8/22 12AM	Storm Duration (hrs) 48
	Rain Gauge Reading (inches)	0.40 in	Total Storm Rainfall (inches) 0.49 in
Outfall Identification Number (Reference Outfall Maps)	1895254		
Outfall Location	Corral Hollow Creek		
Receiving Waterbody	Unidentified Water		

SECTION 2: ILLICIT DISCHARGE DETECTION

Active illicit discharge detected?	☐ Yes ✓ No	Evidence of a past illicit discharge detected?	✓ Yes ☐ No

If either of the questions above are answered "Yes," complete information below, otherwise skip to next Section

Qualitative Observations (Check all that Apply)						
Odor	✓ None	☐ Sulfide	☐ Oil	☐ Gas	☐ Rancid	☐ Other:
Color	☐ None	☐ Yellow	✓ Brown	☐ Green	☐ Red	☐ Other:
Floatables	☐ None	☐ Foam	✓ Staining	☐ Sheen	☐ Sewage	☐ Other:
Damage to Outfall Structures	✓ None	☐ Cracking	☐ Corrosion	☐ Peeling Paint		☐ Other:
Turbidity	☐ Clear	☐ Cloudy	☐ Opaque			✓ Other: N/A
Vegetation	☐ Normal	☐ Excessive Growth		☐ Inhibited Growth		✓ Other: N/A

Quantitative Observations	
Estimated Flow Rate (cfs)	N/A
Estimated Discharge Volume (gal)	N/A

SECTION 3: INVESTIGATION AND ELIMINATION

Source of Discharge: (Check all that apply)

- ☐ Sewage Dump Station
- ☐ Campground
- ☐ Bathroom
- ☐ Waste Disposal Bin
- ☐ Homeless Encampment
- ☐ Concessionaires
- ☐ Maintenance Yard
- ☐ Illegal Waste Dumping (location):
- ☑ Other: Outside maint
- ☐ Other:

Is discharge an immediate threat to human or environmental health?

- ☑ **No** (continue to next section)
- ☐ **Yes (sanitary sewage, petroleum products, or harmful chemicals)**

IF YES, IMMEDIATELY CONTACT LOCAL HEALTH DEPARTMENT

Measures taken to stop illicit discharge: (Document with photos)

Oil spill from vehicle traffic - cleaned with floor sweep and bagged materials for disposal

Measures taken to mitigate impacts caused by illicit discharge: (Document with photos)

Discharge was cleaned upon discovery

Measures taken to prevent future illicit discharges:

Continue to monitor for illicit discharges, clean upon discovery, educate public about harms of spills

Date Corrective Measure Identified	11/23/22	Date Corrective Measure Implemented	11/23/22

Investigation completed within 72 hours of detection? (if "No", document actions being taken to eliminate discharge)

- ☐ Yes
- ☑ No (document actions): Discharge was the result of a stalled vehicle on the road; discharge occurred outside of business hours and was cleaned up upon discovery the following day.

Additional Notes:

Sign the following certification:

"I certify that this inspection form is true, accurate, and complete, to the best of my knowledge and belief."

Signature [signature] Elizabeth Gutberlet, Environmental Scientist 11/28/22

Photo 1: Spill identified at 8:30 am on 11/23/22 outside of entrance to maintenance gate.

Photo 2: Spill being cleaned up with floor sweep by Parks staff.

Photo 3: After clean up.

Appendix E

Construction Site Management Program Checklist

CONSTRUCTION SITE MANAGEMENT PROGRAM CHECKLIST

GENERAL INFORMATION					
Project Name					
Inspector's Name		Inspector's Title			
Contractor's Name		Contractor's Company			
Pictures taken?					
Date of Inspection		Time of Inspection		Date Inspection Report Written	
Phase of Construction					
Current Construction Activities					
Activities Completed					
Approximate Exposed Site Area					

GENERAL INFORMATION

Is the site in compliance with the SWPPP and the permit requirements? ❒ Yes ❒ No

If NO, indicate tasks necessary to bring the site into compliance in the area below. Include dates each task will be completed.

_____

_____

_____

Was water quality sampling part of this inspection?	❒ Yes	❒ No

If YES, see the results on the final page of the inspection form.

Sign the following certification:

"I certify that this inspection form is true, accurate, and complete, to the best of my knowledge and belief."

Signature _____

BEST MANAGEMENT PRACTICE (BMP) INSPECTION

	BMP List	Installed Properly?		BMP List	Installed Properly?
Erosion Controls:			***Wind Erosion Controls:***		
			Tracking Controls:		
			Non-Stormwater Management:		
Sediment Controls:					
			Waste Management:		

Describe any deficiencies in BMPs listed above (include location).

_____

_____

_____

For each BMP deficiency listed above, describe corrective actions taken.

_____

_____

_____

_____

Is there evidence of an off-site discharge of pollutants? If yes, describe condition(s), location(s), and corrective actions taken.

_____

_____

2 6/10/22 KILN WEST PROJECT

- BIO MONITOR: CLINT FLESHOCE
- ARRIVED ON SITE @ 0730
- WALKED CONTOURS, ZIG ZAG PATTARN
- SAW 1 GROUND SQUIRREL
- NO SPECIAL STATUS SPS OBSERVED
- EQUIPMENT / WORK TO BEGIN IN AFTERNOON
- LEFT SIT @ ~830

22 KILN WEST PROJECT

MONITOR: CLINT ELSHOLTZ

VED ON SITE @ 0730

KED CONTOURS, ZIG ZAG

TTERN

AW 1 GROUND SQUIRREL

SPECIAL STATUS SPS

BSERVED

QUIPMENT/WORK TO BEGIN

AFTERNOON

EFT SIT @~830

- BIO MONITOR: GLENN (DESIGNATED) RATHBUN
- RESOURCE SPECIALISTS: CLINT ELSHOLTZ & ELIZ GUTBERLET
- TRAINED GLENN RATHBUN & CLINT STALLINGS AS BIO MONITORS
- WALKED CONTOURS, ZIG ZAG PATTERN
- BURROWS N 1/3 WAY DOWN HILL ON N SIDE, INFORMED B.M.S
- TOOK 3 PHOTO POINTS
- NO SPECIAL STS SPECIES
- EQUIPT WORK IN PROGRESS, M-W WORK SCHED ESTABLISHED
- ARRIVED @ 7:30, LEAVING @ 8:15

4 6/22/22 KILN WEST PROJECT

- RESOURCE SPECIALIST: ELIZ GUTBERLET
- BIO MONITOR: GLENN RATHBUN
- STARTED @ 6AM, WALKED UP FROM GRIZZLY
- WALKED CONTOURS ZIGZAG PATTERN
- TOOK 1 PHOTO POINT (3 PHOTOS)
- NO SPECIAL STS SPECIES PRESENT
- EQUIPT. WORK TO BEGIN ~7AM
- ENDED @ 645

/22 KILN WEST PROJECT
URCE SPECIALIST: ELIZ GUTBERLET
ONITOR: GLENN RATHBUN
ED @ 6am, WALKED UP FROM
Y
ED CONTOURS ZIG ZAG PATTERN
1 PHOTO POINT (3 PHOTOS)
PECIAL STS SPECIES PRESENT
PT. WORK TO BEGIN ~7am
D @ 645

6/27/22 KILN WEST PROJECT

- RESOURCE SPECIALIST: ELIZ GUTBERLET
- BIO MONITOR: GLENN RATHBUN
- STARTED @ 7am, WALKED UP FROM GRIZZLY
- WALKED CONTOURS ZIG ZAG PATTERN
- TOOK 1 PHOTO PT (2 PICS)
- NO SPECIAL STATUS SPECIES OBSERVED
- WORK TO BEGIN ~ 8^{30} am
- ENDED @ 8am

6 9/28/22 KILN WEST PROJECT

- RESOURCE SPECIALIST: ELIZ GUTBERLET
- BIO MONITOR: GLENN RATHBUN
- STARTED @ 7am
- GULLIES HAVE BEEN FILLED IN & ENTIRE SITE HAS BEEN DISTURBED
- DID VISUAL SCAN W/ BINOS IN ZIGZAG PATTERN UP & DOWN LENGTH OF PROJECT
- NO SPECIAL STATUS SPECIES OBSERVED
- EQUIPT WORK SHOULD BE COMPLETED TODAY OR TOMORROW
- ENDED SURVEY @ 745 am

/22 KILN WEST PROJECT
URCE SPECIALIST: ELIZ GUTBERLET
MONITOR: GLENN RATHBUN
TED @ 7am
ES HAVE BEEN FILLED IN &
RE SITE HAS BEEN DISTURBED
VISUAL SCAN W/ BINOS IN
IG PATTERN UP & DOWN LENGTH
ROJECT
SPECIAL STATUS SPECIES OBSERVED
IPT WORK SHOULD BE COMPLETED
Y OR TOMORROW
ED SURVEY @ 7:45 am

KILN WEST PROJECT 7/12/22 7

- RES. SPEC.: ELIZ GUTBERLET
- BIOMONITOR: GLENN RATHBUN
- 7:15 am START
- INSPECTED KNOLL (AREA 1) OF PROJECT
- WALKED ZIGZAG UP & DOWN L OF PROJECT
- INSPECTED DIRT PILES & DEAD TREES
- SITE CLEARED FOR WORK NO SPECIAL STATUS SPECIES OBS.
- WORK TO BEGIN LATER
- ENDED @ 7:46 am

Rite in the Rain.

8 7/13/22 KILN WEST PROJECT

- RESC. SPEC: LIZ GUTBORLET
- BIOMONITOR: GLENN RAUTHBUN
- 740 START
- WALKED AREA 1 OF PROJECT
- ZIGZAG PATTERN UP & DOWN CONTOURS FOR ½ OF PROJECT
- NO SPECIAL STATUS SPECIES OBS.
- WORK TO BEGIN LATER
- 8 IS END

7/13/22 KILN WEST PROJECT

- RESC. SPEC: LIZ GUTBERLET
- BIOMONITOR: GLENN RATHBUN
- 740 START
- WALKED AREA 1 OF PROJECT
- ZIGZAG PATTERN UP & DOWN CONTOURS FOR ℓ OF PROJECT
- NO SPECIAL STATUS SPECIES OBS.
- WORK TO BEGIN LATER
- 815 END

7/18/22 KILN WEST PROJ.

- RESC. SPEC.: LIZ GUTBERLET
- BIO MONITOR: GLENN RATHBUN
- 715 START
- WALKED AREA 1 OF PROJ., INSP. DIRT PILES
- ZIGZAG PATTERN UP & DOWN ℓ OF PROJECT
- NO SPECIAL STATUS SPECIES OBS
- WORK TO BEGIN LATER
- 745 am END

10 7/19/22 FILM W. PROJECT
RESC. SPEC. - ELIZ GUTBERLET
BIO MONITOR - GLENN RATHBUN
- 6:30 START
- WALKED ZIG ZAG UP & DOWN CONTOURS FOR 1 OF AREA 1 OF PROJECT
- NO SPECIAL STS SPECIES OBS.
- WORK TO BEGIN LATER
- 6:50 END

7/19/22 KILN W. PROJECT

RESC. SPEC. - ELIZ GUTBERLET

BIO MONITOR - GLENN RATHBUN

- 6:30 START
- WALKED ZIG ZAG UP & DOWN CONTOURS FOR 1 OF AREA 1 OF PROJECT
- NO SPECIAL STS SPECIES OBS.
- WORK TO BEGIN LATER
- 6:50 END

7/25/22 KILN WEST PROJECT

RESC. SPEC: ELIZ GUTBERLET

BIO MONITOR: GLENN RATHBUN

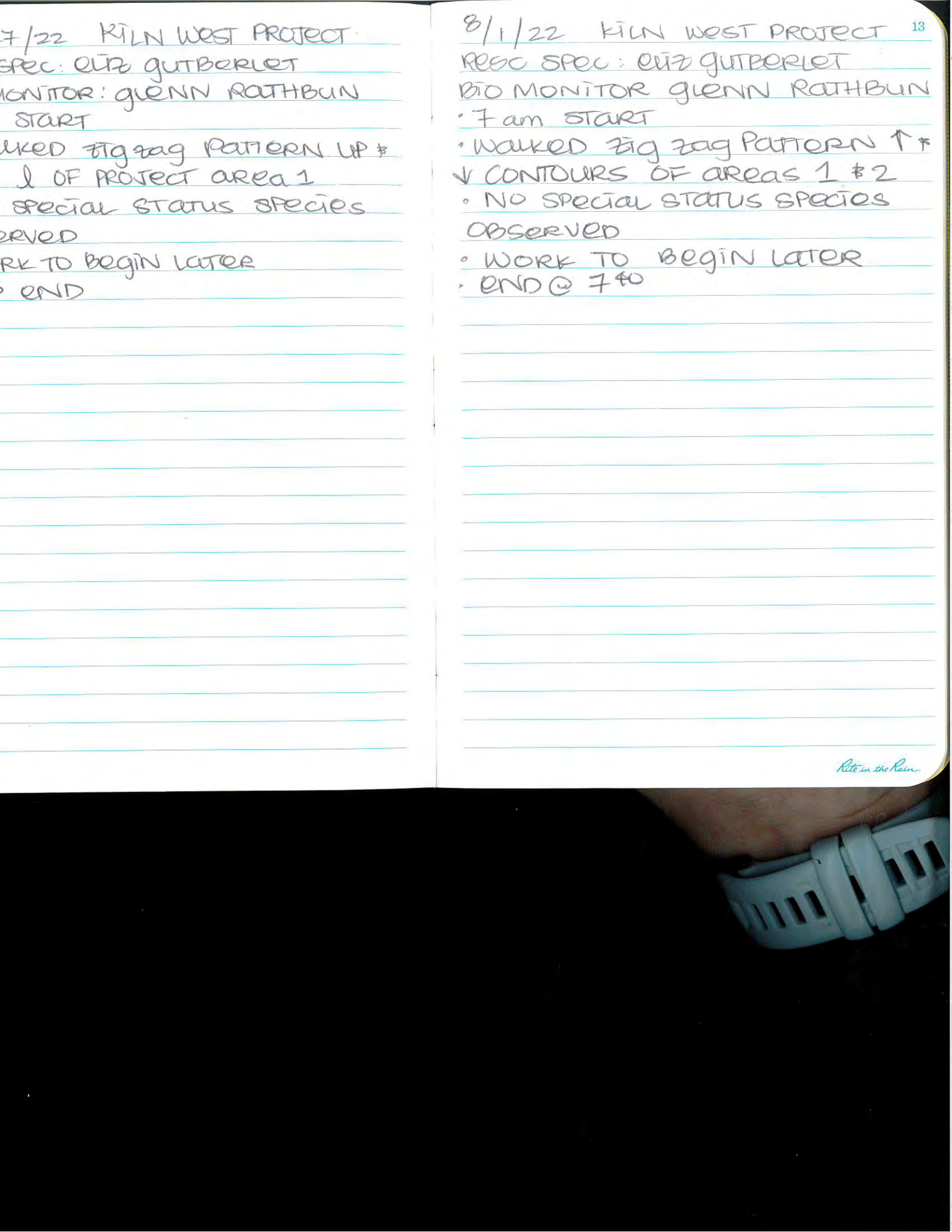
- 6:15 START
- WALKED ZIG ZAG PATTERN UP & DOWN 1 OF PROJECT AREA 1
- NO SPECIAL STATUS SPECIES OBS.
- WORK TO BEGIN LATER
- 6:50 END

12 7/27/22 KILN WEST PROJECT
RESC SPEC: LIZ GUTBERLET
BIO MONITOR: GLENN RATHBUN
- 720 START
- WALKED ZIGZAG PATTERN UP & DOWN 1 OF PROJECT AREA 1
- NO SPECIAL STATUS SPECIES OBSERVED
- WORK TO BEGIN LATER
- 745 END

8/1/2
RESC
BIO M
- 7 am
- Walk
↓ CON
- NO
OBSE
- WO
- END

7/22 KILN WEST PROJECT
SPEC: LIZ GUTBERLET
MONITOR: GLENN RATHBUN
START
LKED ZIG ZAG PATTERN UP &
L OF PROJECT AREA 1
SPECIAL STATUS SPECIES
ERVED
RK TO BEGIN LATER
END

8/1/22 KILN WEST PROJECT
RESC SPEC: LIZ GUTBERLET
BIO MONITOR GLENN RATHBUN
- 7 am START
- WALKED ZIG ZAG PATTERN ↑ &
↓ CONTOURS OF AREAS 1 & 2
- NO SPECIAL STATUS SPECIES OBSERVED
- WORK TO BEGIN LATER
- END @ 7:40



Appendix F

MS4 Hotspot Inspection Form

MS4 HOTSPOT INSPECTION FORM

SECTION 1: GENERAL INFORMATION			
Park Name		Hotspot	
Inspector's Name		Inspector's Title	
Consultant Company (if applicable)			
Pictures taken?		Time of Inspection	
Date of Inspection		Date Inspection Report Written	
Inspection Type (Check Applicable)	❒ Quarterly Visual ❒ Quarterly Comprehensive ❒ Other _____ ❒ Quarterly Discharge		
Weather (Check all that apply)	❒ Sunny ❒ Partly Sunny ❒ Partly Cloudy ❒ Cloudy ❒ Rainy ❒ Windy		
Most Recent Storm Data	Storm Start Date & Time		Storm Duration (hrs)
	Rain Gauge Reading (inches)		Total Storm Rainfall (inches)

SECTION 2: QUARTERLY VISUAL			
Are material/equipment storage areas clean and orderly?	❒ Yes ❒ No	Are all erosion and sediment control BMPs installed and maintained according to the SWPPP?	❒ Yes ❒ No
If either of the questions above are answered "No," complete Section 5; otherwise skip to Section 6, "Additional Notes".			

SECTION 3: QUARTERLY COMPREHENSIVE			
Are all waste storage areas clean and free of litter?	❒ Yes ❒ No	Are all dumpsters properly maintained and emptied on a regular basis?	❒ Yes ❒ No
Are vehicle/equipment fueling areas free of any spills/leaks?	❒ Yes ❒ No	Are all material handling areas clean and orderly?	❒ Yes ❒ No
Are all public areas clean and free of litter?	❒ Yes ❒ No	Are all erosion and sediment control BMPs installed and maintained according to the SWPPP?	❒ Yes ❒ No
If either of the questions above are answered "No," complete Section 5; otherwise skip to Section 6, "Additional Notes".			

SECTION 4: QUARTERLY DISCHARGE						
Are there any discharges from the site?	❒ Yes ❒ No	If question is answered "Yes," complete information below; otherwise skip to "Additional Notes"				
Is the discharge…	❒ Stormwater	❒ Non-Stormwater				
Odor	❒ None	❒ Sulfide	❒ Oil	❒ Gas	❒ Rancid	❒ Other:
Color	❒ None	❒ Yellow	❒ Brown	❒ Green	❒ Red	❒ Other:
Floatables	❒ None	❒ Foam	❒ Staining	❒ Sheen	❒ Sewage	❒ Other:
Damage to Outfall Structures	❒ None	❒ Cracking	❒ Corrosion	❒ Peeling Paint		❒ Other:
Turbidity	❒ Clear	❒ Cloudy	❒ Opaque			❒ Other:
Vegetation	❒ Normal	❒ Excessive Growth		❒ Inhibited Growth		❒ Other:

SECTION 5: GENERAL COMMENTS

Describe material/ equipment storage area deficiencies: _____

Measures taken to correct material/equipment storage area deficiencies: _____

Describe BMP deficiencies: _____

Measures taken to correct BMP deficiencies: _____

Describe site discharges: _____

Measures taken to control site discharges: _____

SECTION 6: ADDITIONAL NOTES

Additional Notes: _____

Date Corrective Measures Identified		Date Corrective Measures Implemented	

Sign the following certification:

"I certify that this inspection form is true, accurate, and complete, to the best of my knowledge and belief."

Signature _____

Annual Facility Assessment Form

Section 1: General Information			
Park Name	Carnegie	**Name of Inspector**	Eliz Gutberlet
Date	6/20/23	**Title of Inspector**	E.S.
Facility	**Maintenance Yard**	**Proximity to Receiving Waters (specify units: ft, yds, miles)**	~100 FT

Section 2: Facility Assessment Information

Vehicle and Equipment Maintenance and Repair Shop

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Oil & Grease Metals Other Petroleum Products
Applicable CASQA BMPs	SC-22 (Vehicle and Equipment Repair); SC-32 (Outdoor Equipment Maintenance); SC-11 (Spill Prevention, Control and Cleanup); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are all petroleum products and other potential pollutants properly contained and stored inside the maintenance shop to prevent pollutant discharges?	(Yes) No	
Is the shop and immediate surrounding area free of spills, leaks or other evidence of pollutant discharges?	(Yes) No	
Are spill cleanup materials clearly marked, well-stocked, and readily available?	(Yes) No	
Are working areas clean and well-organized?	(Yes) No	

Power Washing Area

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Wash Water Cleaners/Detergents Petroleum Products Sediment
Applicable CASQA BMPs	SC-10 (Non-Stormwater Discharges); SC-21 (Vehicle and Equipment Cleaning); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are cleaners or detergents properly stored to prevent pollutant discharges?	Yes No	NA NO USE OF CLEANERS/DETERGENT
Is the washing area free of non-storm water discharges?	(Yes) No	
Is the washing area free of erosion, spills, leaks or other evidence of pollutant discharges?	(Yes) No	
Are trash receptacles (with lids) provided near the washing area?	(Yes) No	1 CAN NO LID UNDER COVER

Annual Facility Assessment Form

Fueling Station			
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Gasoline Diesel Trash		
Applicable CASQA BMPs	SC-20 (Vehicle and Equipment Fueling); SC-11 (Spill Prevention, Control and Cleanup); SC-60 (Housekeeping Practices)		
Facility Assessment Questions		**Circle Yes or No**	**If "No" describe reason why and list all necessary corrective actions.**
Is the fueling station covered and protected from storm water?		(Yes) No	
Is the fueling station bermed or contained to prevent pollutant discharges in the event of a significant spill?		~~Yes~~ (No)	CON VAULT TO PREVENT LEAKS
Are gas cans and/or other containers stored in a manner to prevent contact with storm water?		(Yes) No	
Is the fueling station free of spills, leaks or other evidence of pollutant discharges?		(Yes) No	
Are spill cleanup materials clearly marked, well-stocked, and readily available?		(Yes) No	
Are trash receptacles at the fueling station equipped with lids?		(Yes) No	
Outdoor Material Storage			
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Sediment Petroleum Products Trash		
Applicable CASQA BMPs	SC-31 (Outdoor Container Storage); SC-33 (Outdoor Storage of Raw Materials); SC-60 (Housekeeping Practices)		
Facility Assessment Questions		**Circle Yes or No**	**If "No" describe reason why and list all necessary corrective actions.**
Are all hazardous materials or wastes stored inside?		(Yes) No	
If hazardous materials or wastes are stored outside, are they properly stored under cover with secondary containment?		(Yes) No	
Are outdoor bulk material (aggregate, soil, mulch, etc.) storage areas designed to properly contain all associated materials and prevent pollutant discharges?		Yes (No)	ACTIVE PILES
Are material storage areas equipped with permanent coverage, or covered during rain events?		~~Yes~~ (No)	

Annual Facility Assessment Form

Waste Storage Areas			
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash		
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-60 (Housekeeping Practices)		
Facility Assessment Questions		**Circle Yes or No**	**If "No" describe reason why and list all necessary corrective actions.**
Are waste storage areas designed to properly contain all collected solid waste and prevent pollutant discharges?		(Yes) No	
Are waste storage areas protected from wind?		(Yes) No	
Are waste storage containers equipped with lids or covered during rain events?		~~Yes~~ (No)	NON FRIABLE MATERIALS, NO LID

Vehicle Parking Areas			
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash Sediment Petroleum Products		
Applicable CASQA BMPs	SC-43 (Parking/Storage Area Maintenance); SC-60 (Housekeeping Practices)		
Facility Assessment Questions		**Circle Yes or No**	**If "No" describe reason why and list all necessary corrective actions.**
Are vehicle parking areas stabilized to prevent sediment trackout?		(Yes) No	
Are vehicle parking areas free of trash, oil leaks, and other potential pollutants?		(Yes) No	
Are dirt parking areas free of visible erosion and sediment discharges?		(Yes) No	
Are muddy parking areas avoided after rain events to prevent sediment trackout?		(Yes) No	

Annual Facility Assessment Form

Section 3: Summary and Hotspot Analysis		
Is the Facility a Hotspot per the minimum hotspot designations of the Phase II Permit? • Maintenance Yards • Hazardous Waste Facilities • Fuel Storage Locations • Other Facilities at which chemicals or other materials have a high potential to be discharged in storm water	(Yes) No	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
During the Assessment, was there clear evidence of pollutant discharges from the facility?	Yes (No)	**If "Yes", FACILITY IS A HOTSPOT; proceed to nextsection** **If "No", proceed to next question.**
Tally the number of "No" answers from Facility Assessment Questions above:		**Number of "No" answers from Section 2:** **0-2: Facility is NOT a Hotspot** **3-5: Facility is a POTENTIAL Hotspot** **6+: Facility is a HOTSPOT**

Section 4: Trash Assessment	
Select Trash Rating (Check Appropriate Box)	Rating Definition
☒ Low	Effectively no trash is observed in the assessment area. There may be some small pieces in the area, but they are not obvious at first glance and one individual could easily clean up all trash observed in a very short timeframe.
☐ Medium	Predominantly free of trash except for a few pieces that are easily observed in the assessment area. The trash could be collected by one or two individuals in a short period of time.
☐ High	Trash is widely/evenly distributed and/or small accumulations are visible on the street, sidewalks, or inlets. It would take a more organized effort to remove all trash from the area.
☐ Very High	Trash is continuously seen throughout the assessment area, with large piles and a strong impression of lack of concern for litter in the area. There is often significant litter along gutters. It would take a large number of people during an organized effort to remove all trash from the area.

Section 5: Follow-Up Action Items		
Have issues from last year's inspection been resolved?	☐ Yes ☒ No ☐ N/A	Comment: STILL NO "BERM" AROUND FUELING STATION

Section 6: Additional Comments

Certification Statement
"I certify that this inspection form is true, accurate and complete, to the best of my knowledge and belief:
Inspector Signature: [signature] Date: 6/20/23

Annual Facility Assessment Form

Section 1: General Information			
Park Name	Carnegie	**Name of Inspector**	LIZ GUTBERLET
Date	6/20/23	**Title of Inspector**	E.S.
Facility	**Campground and Day Use Facilities**	**Proximity to Receiving Waters (specify units: ft, yds, miles)**	N100FT

Section 2: Facility Assessment Information

Restrooms

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Sewage Trash
Applicable CASQA BMPs	SC-76 (Water & Sewage Utility Maintenance); SC-34 (Waste Handling and Disposal)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are restrooms free of spills, leaks or other pollutant discharges?	(Yes) No	
Are trash receptacles at the restrooms equipped with lids?	(Yes) No	

Waste Disposal Locations

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash Petroleum Products
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are trash receptacles within the campground and day use facilities equipped with lids?	(Yes) No	
Are the campground and day use facilities free of trash and litter?	(Yes) No	

Roadway and Parking Areas

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash Sediment Petroleum Products
Applicable CASQA BMPs	SC-43 (Parking/Storage Area Maintenance); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are vehicle parking areas stabilized to prevent sediment trackout?	(Yes) No	
Are vehicle parking areas free of trash, oil leaks, and other potential pollutants?	(Yes) No	
Are parking areas routinely swept and cleaned?	(Yes) No	

Annual Facility Assessment Form

Section 3: Summary and Hotspot Analysis		
Is the Facility a Hotspot per the minimum hotspot designations of the Phase II Permit? • Maintenance Yards • Hazardous Waste Facilities • Fuel Storage Locations • Other Facilities at which chemicals or other materials have a high potential to be discharged in storm water	Yes (No)	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
During the Assessment, was there clear evidence of pollutant discharges from the facility?	Yes No	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
Tally the number of "No" answers from Facility Assessment Questions above:		**Number of "No" answers to Section 2:** **0-2: Facility is NOT a Hotspot** **3-5: Facility is a POTENTIAL Hotspot** **6+: Facility is a HOTSPOT**

Section 4: Trash Assessment	
Select Trash Rating (Check Appropriate Box)	Rating Definition
☒ Low	Effectively no trash is observed in the assessment area. There may be some small pieces in the area, but they are not obvious at first glance and one individual could easily clean up all trash observed in a very short timeframe.
☐ Medium	Predominantly free of trash except for a few pieces that are easily observed in the assessment area. The trash could be collected by one or two individuals in a short period of time.
☐ High	Trash is widely/evenly distributed and/or small accumulations are visible on the street, sidewalks, or inlets. It would take a more organized effort to remove all trash from the area.
☐ Very High	Trash is continuously seen throughout the assessment area, with large piles and a strong impression of lack of concern for litter in the area. There is often significant litter along gutters. It would take a large number of people during an organized effort to remove all trash from the area.

Section 5: Follow-Up Action Items		
Have issues from last year's inspection been resolved?	☐ Yes ☐ No ☒ N/A	Comment:

Section 6: Additional Comments

Certification Statement
"I certify that this inspection form is true, accurate and complete, to the best of my knowledge and belief: Inspector Signature: [signature] Date: 6/20/23

Annual Facility Assessment Form

Section 1: General Information			
Park Name	Carnegie	**Name of Inspector**	EG.
Date	6/20/23	**Title of Inspector**	E.S.
Facility	**Hillclimb Facility**	**Proximity to Receiving Waters (specify units: ft, yds, miles)**	~75'

Section 2: Facility Assessment Information	
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Sediment Trash Petroleum Products
Applicable CASQA BMPs	SC-60 (Housekeeping Practices); SC-11 (Spill Prevention, Control and Cleanup) List any applicable CASQA Construction BMPs:

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Is the Hillclimb area stabilized and free of erosion?	(Yes) No	
Are implemented erosion controls functional and performing as intended?	(Yes) No	
Are implemented sediment controls functional and performing as intended?	(Yes) No	
Is the Hillclimb area free of trash, petroleum product spills and other potential pollutants?	(Yes) No	
Is the Hillclimb area free of evidence of pollutant discharges?	(Yes) No	

Annual Facility Assessment Form

Section 3: Summary and Hotspot Analysis		
Is the Facility a Hotspot per the minimum hotspot designations of the Phase II Permit? • Maintenance Yards • Hazardous Waste Facilities • Fuel Storage Locations • Other Facilities at which chemicals or other materials have a high potential to be discharged in storm water	Yes (No)	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
During the Assessment, was there clear evidence of pollutant discharges from the facility?	Yes (No)	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
Tally the number of "No" answers from Facility Assessment Questions above:		**Number of "No" answers from Section 2:** **0-2: Facility is NOT a Hotspot** **3-5: Facility is a POTENTIAL Hotspot** **6+: Facility is a HOTSPOT**

Section 4: Trash Assessment	
Select Trash Rating (Check Appropriate Box)	Rating Definition
☑ Low	Effectively no trash is observed in the assessment area. There may be some small pieces in the area, but they are not obvious at first glance and one individual could easily clean up all trash observed in a very short timeframe.
☐ Medium	Predominantly free of trash except for a few pieces that are easily observed in the assessment area. The trash could be collected by one or two individuals in a short period of time.
☐ High	Trash is widely/evenly distributed and/or small accumulations are visible on the street, sidewalks, or inlets. It would take a more organized effort to remove all trash from the area.
☐ Very High	Trash is continuously seen throughout the assessment area, with large piles and a strong impression of lack of concern for litter in the area. There is often significant litter along gutters. It would take a large number of people during an organized effort to remove all trash from the area.

Section 5: Follow-Up Action Items		
Have issues from last year's inspection been resolved?	☐ Yes ☐ No ☒ N/A	Comment:

Section 6: Additional Comments

Certification Statement

"I certify that this inspection form is true, accurate and complete, to the best of my knowledge and belief:

Inspector Signature: [signature] Date: 6/20/23

Annual Facility Assessment Form

Section 1: General Information			
Park Name	Carnegie	**Name of Inspector**	E. GUTBERLET
Date	9/26/23	**Title of Inspector**	E.S.
Facility	**Sector Office**	**Proximity to Receiving Waters (specify units: ft, yds, miles)**	~100'

Section 2: Facility Assessment Information

Outdoor Material Storage

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Sediment Petroleum Products Trash
Applicable CASQA BMPs	SC-31 (Outdoor Container Storage); SC-33 (Outdoor Storage of Raw Materials); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are all hazardous materials or wastes stored inside?	(Yes) No	
If hazardous materials or wastes are stored outside, are they properly stored under cover with secondary containment?	Yes No	NA
Are material storage areas free of trash, oil leaks, or evidence of pollutant discharges?	(Yes) No	
Are outdoor bulk material (aggregate, soil, mulch, etc.) storage areas designed to properly contain all associated materials and prevent pollutant discharges?	(Yes) No	
Are material storage areas equipped with permanent coverage, or covered during rain events?	Yes (No)	

Waste Storage Areas

List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash
Applicable CASQA BMPs	SC-34 (Waste Handling and Disposal); SC-60 (Housekeeping Practices)

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are waste storage areas designed to properly contain all collected solid waste and prevent pollutant discharges?	(Yes) No	
Are waste storage areas protected from wind?	(Yes) No	
Are waste storage containers equipped with lids or covered during rain events?	(Yes) No	

Annual Facility Assessment Form

Vehicle Parking Areas			
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Trash Sediment Petroleum Products		
Applicable CASQA BMPs	SC-43 (Parking/Storage Area Maintenance); SC-60 (Housekeeping Practices)		
Facility Assessment Questions		**Circle Yes or No**	**If "No" describe reason why and list all necessary corrective actions.**
Are vehicle parking areas stabilized to prevent sediment trackout?		(Yes) No	
Are vehicle parking areas free of trash, oil leaks, and other potential pollutants?		(Yes) No	
Are dirt parking areas free of visible erosion and sediment discharges?		(Yes) No	
Are muddy parking areas avoided after rain events to prevent sediment trackout?		(Yes) No	

Annual Facility Assessment Form

Section 3: Summary and Hotspot Analysis		
Is the Facility a Hotspot per the minimum hotspot designations of the Phase II Permit? • Maintenance Yards • Hazardous Waste Facilities • Fuel Storage Locations • Other Facilities at which chemicals or other materials have a high potential to be discharged in storm water	Yes (No)	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
During the Assessment, was there clear evidence of pollutant discharges from the facility?	Yes No	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
Tally the number of "No" answers from Facility Assessment Questions above:		**Number of "No" answers to Section 2:** **0-2: Facility is NOT a Hotspot** **3-5: Facility is a POTENTIAL Hotspot** **6+: Facility is a HOTSPOT**

Section 4: Trash Assessment	
Select Trash Rating (Check Appropriate Box)	Rating Definition
☒ Low	Effectively no trash is observed in the assessment area. There may be some small pieces in the area, but they are not obvious at first glance and one individual could easily clean up all trash observed in a very short timeframe.
☐ Medium	Predominantly free of trash except for a few pieces that are easily observed in the assessment area. The trash could be collected by one or two individuals in a short period of time.
☐ High	Trash is widely/evenly distributed and/or small accumulations are visible on the street, sidewalks, or inlets. It would take a more organized effort to remove all trash from the area.
☐ Very High	Trash is continuously seen throughout the assessment area, with large piles and a strong impression of lack of concern for litter in the area. There is often significant litter along gutters. It would take a large number of people during an organized effort to remove all trash from the area.

Section 5: Follow-Up Action Items		
Have issues from last year's inspection been resolved?	☐ Yes ☐ No ☒ N/A	Comment:

Section 6: Additional Comments

Certification Statement
"I certify that this inspection form is true, accurate and complete, to the best of my knowledge and belief: Inspector Signature: [signature] Date: 6/26/23

Annual Facility Assessment Form

Section 1: General Information			
Park Name	Carnegie	**Name of Inspector**	E GUTIERREZ
Date	6/26/23	**Title of Inspector**	E.S.
Facility	**Tesla Mine**	**Proximity to Receiving Waters (specify units: ft, yds, miles)**	~0

Section 2: Facility Assessment Information	
List Potential Pollutants of Concern and corresponding Volume (if applicable)	Sediment pH
Applicable CASQA BMPs	SC-60 (Housekeeping Practices) List any applicable CASQA Construction BMPs:

Facility Assessment Questions	Circle Yes or No	If "No" describe reason why and list all necessary corrective actions.
Are tailing piles stabilized and free of erosion?	Yes (No)	
Are implemented erosion controls functional and performing as intended?	Yes (No)	
Are implemented sediment controls functional and performing as intended?	Yes (No)	
Are mine areas free of trash, spills, illegal dumping, and other potential pollutants?	(Yes) No	
Is the mine area free of evidence of pollutant discharges?	Yes (No)	

Annual Facility Assessment Form

Section 3: Summary and Hotspot Analysis		
Is the Facility a Hotspot per the minimum hotspot designations of the Phase II Permit? • Maintenance Yards • Hazardous Waste Facilities • Fuel Storage Locations • Other Facilities at which chemicals or other materials have a high potential to be discharged in storm water	(Yes) No	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
During the Assessment, was there clear evidence of pollutant discharges from the facility?	Yes No	**If "Yes", FACILITY IS A HOTSPOT; proceed to next section** **If "No", proceed to next question.**
Tally the number of "No" answers from Facility Assessment Questions above:		**Number of "No" answers Section 2:** **0-2: Facility is NOT a Hotspot** **3-5: Facility is a POTENTIAL Hotspot** **6+: Facility is a HOTSPOT**

Section 4: Trash Assessment	
Select Trash Rating (Check Appropriate Box)	Rating Definition
☒ Low	Effectively no trash is observed in the assessment area. There may be some small pieces in the area, but they are not obvious at first glance and one individual could easily clean up all trash observed in a very short timeframe.
☐ Medium	Predominantly free of trash except for a few pieces that are easily observed in the assessment area. The trash could be collected by one or two individuals in a short period of time.
☐ High	Trash is widely/evenly distributed and/or small accumulations are visible on the street, sidewalks, or inlets. It would take a more organized effort to remove all trash from the area.
☐ Very High	Trash is continuously seen throughout the assessment area, with large piles and a strong impression of lack of concern for litter in the area. There is often significant litter along gutters. It would take a large number of people during an organized effort to remove all trash from the area.

Section 5: Follow-Up Action Items		
Have issues from last year's inspection been resolved?	☐ Yes ☒ No ☐ N/A	Comment: SILT FENCE NEEDS REINSTALLING (FALL 2023 PROJECT) 2023 STORMS EXACCERBATED LAST YRS ISSUES

Section 6: Additional Comments

AREA UNDER CLASSIFICATION PROCESS IN 2023 & ROADS & TRAILS PROJECT IN PLANNING PROCESS FOR SITE IMPROVEMENTS

Certification Statement

"I certify that this inspection form is true, accurate and complete, to the best of my knowledge and belief:

Inspector Signature: [signature] Date: 6/20/23

Appendix G

Off-Trail Riding Inspection Forms

Section 1: General Information			
Park Name:	Carnegie SVRA	Name of Inspector:	
Date:		Title of Inspector:	

Section 2: RMA Inspection			
Roadrunner RMA			
RMA Inspected?	Yes☐ ☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐ ☐ No	If Yes, # of Unautrhorized Routes?	
Required: If off-trail riding is observed, mark map and/or take a gps point. Optional: Take a photo, then give the off trail an id # and attach photo.			
Comments:			
SRI Loop RMA			
RMA Inspected?	Yes☐ ☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐ ☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.			
Comments:			
Kiln East RMA			
RMA Inspected?	Yes☐ ☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐ ☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.			
Comments:			

Los Osos Knoll RMA					
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐	☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized		
Required: If off-trail riding is observed, mark map and/or take a gps point.					
Comments:					

Seven Trails RMA					
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐	☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized		
Required: If off-trail riding is observed, mark map and/or take a gps point.					
Comments:					

Harrison RMA					
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐	☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized		
Required: If off-trail riding is observed, mark map and/or take a gps point.					
Comments:					

Los Osos Climb RMA					
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐	☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized		
Required: If off-trail riding is observed, mark map and/or take a gps point.					
Comments:					

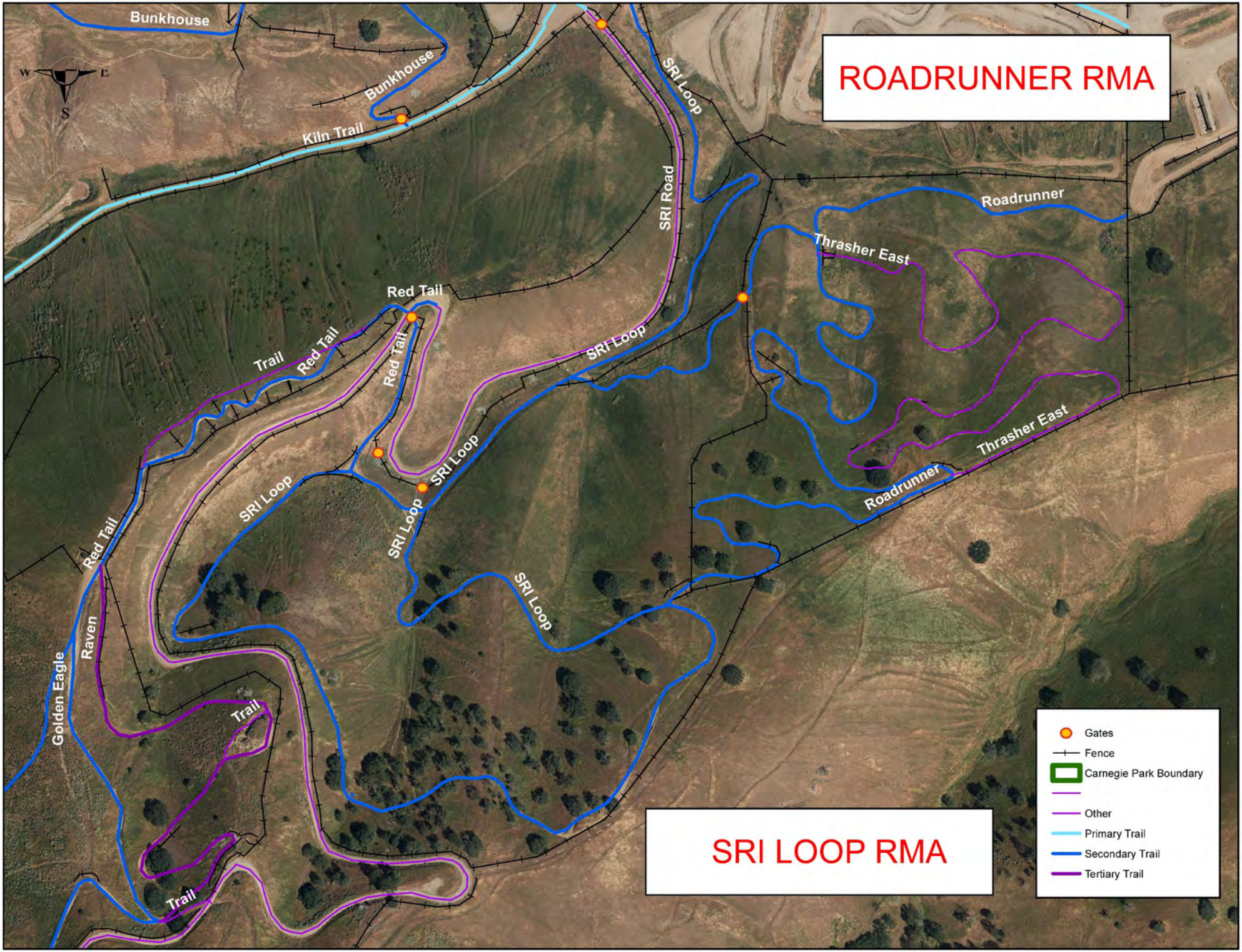
West Pottery RMA				
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.				
Comments:				

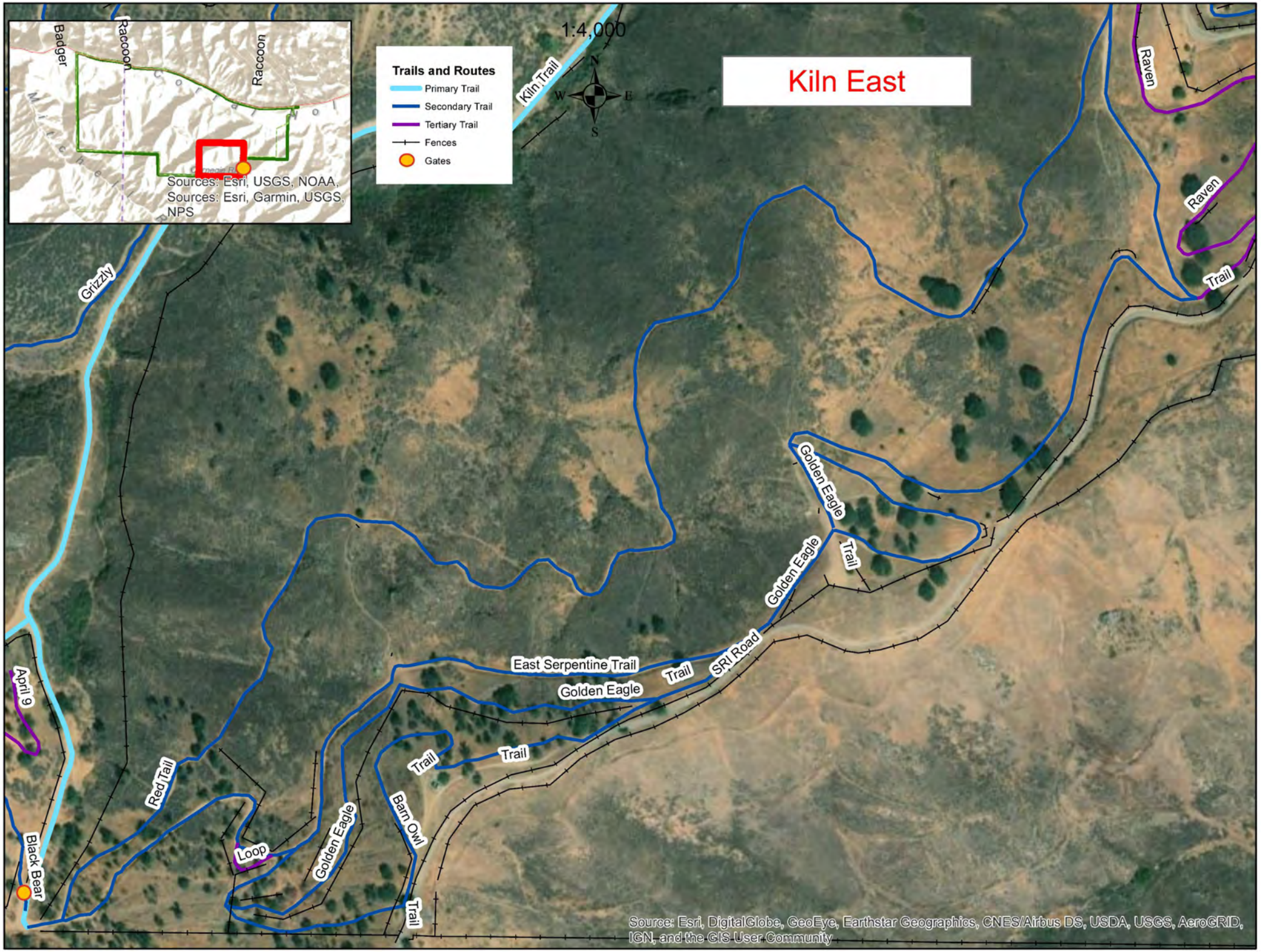
Black Bear RMA (East)				
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.				
Comments:				

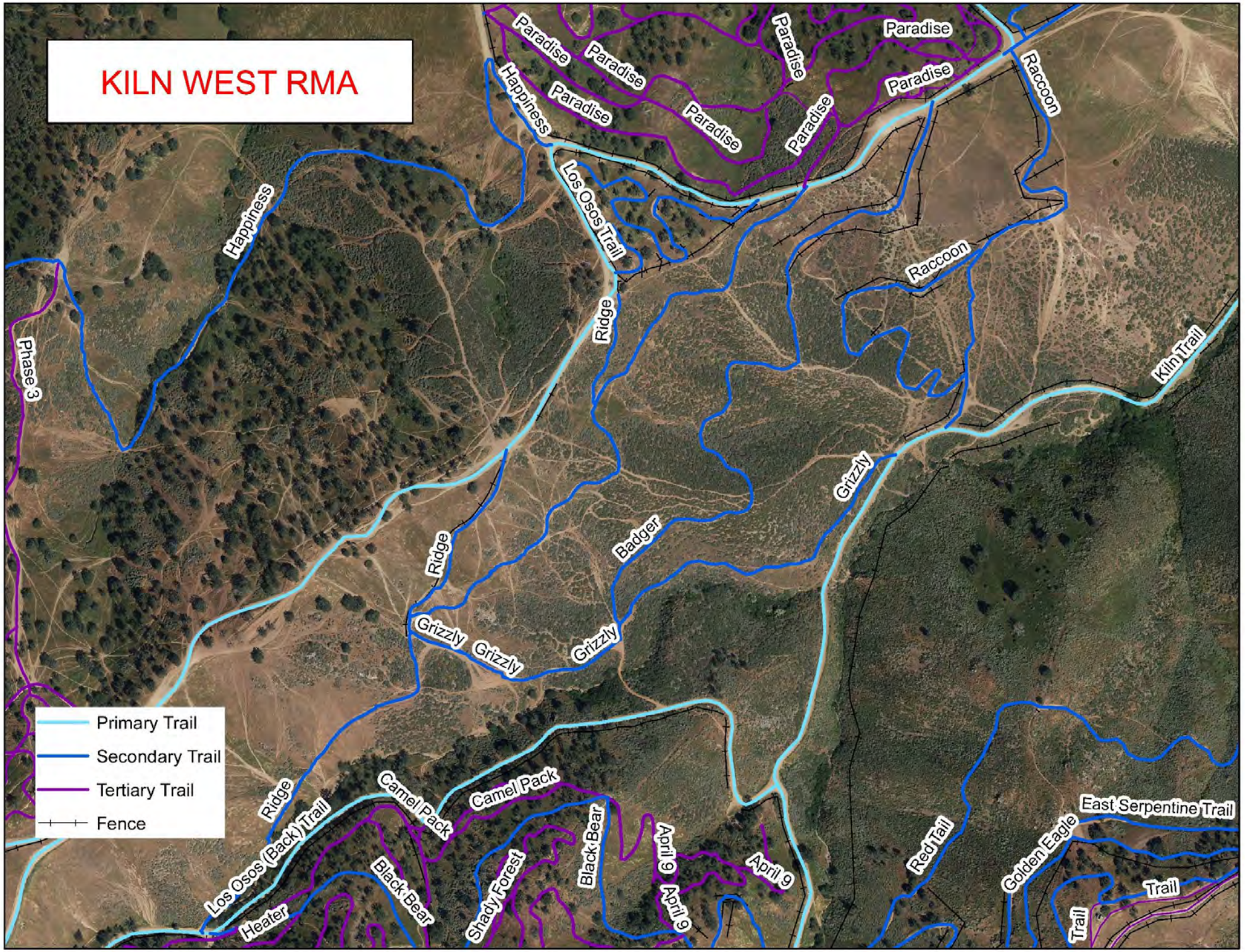
Black Bear RMA (West)				
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.				
Comments:				

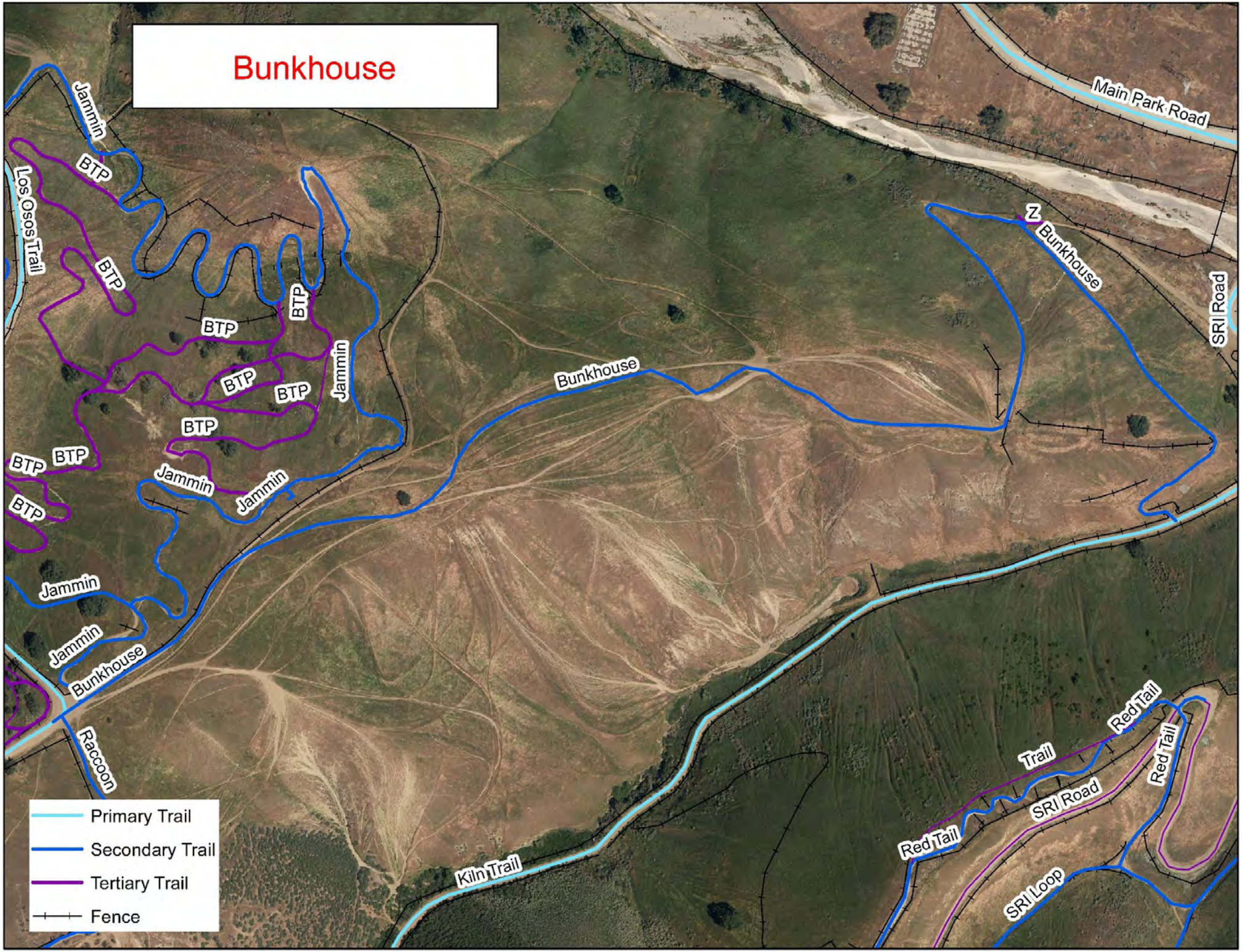
Phase 3				
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐ ☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized	
Required: If off-trail riding is observed, mark map and/or take a gps point.				
Comments:				

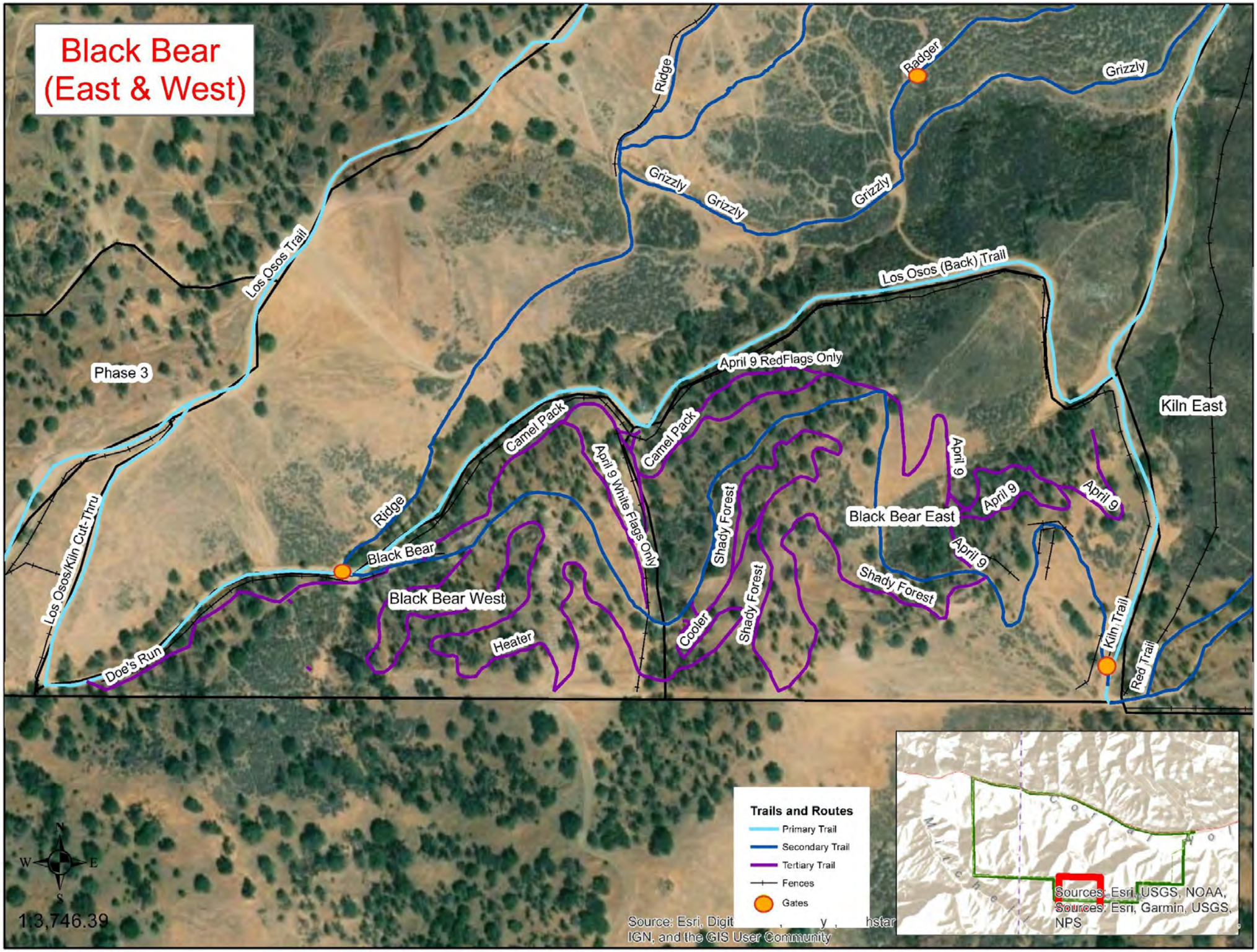
Kiln West & Bunkhouse					
RMA Inspected?	Yes☐	☐ No	Is the RMA Currently Closed?	Yes☐	☐ No
Off-Trail Riding?	Yes☐	☐ No	If Yes, # of Unautrhorized		
Required: If off-trail riding is observed, mark map and/or take a gps point.					
Comments:					

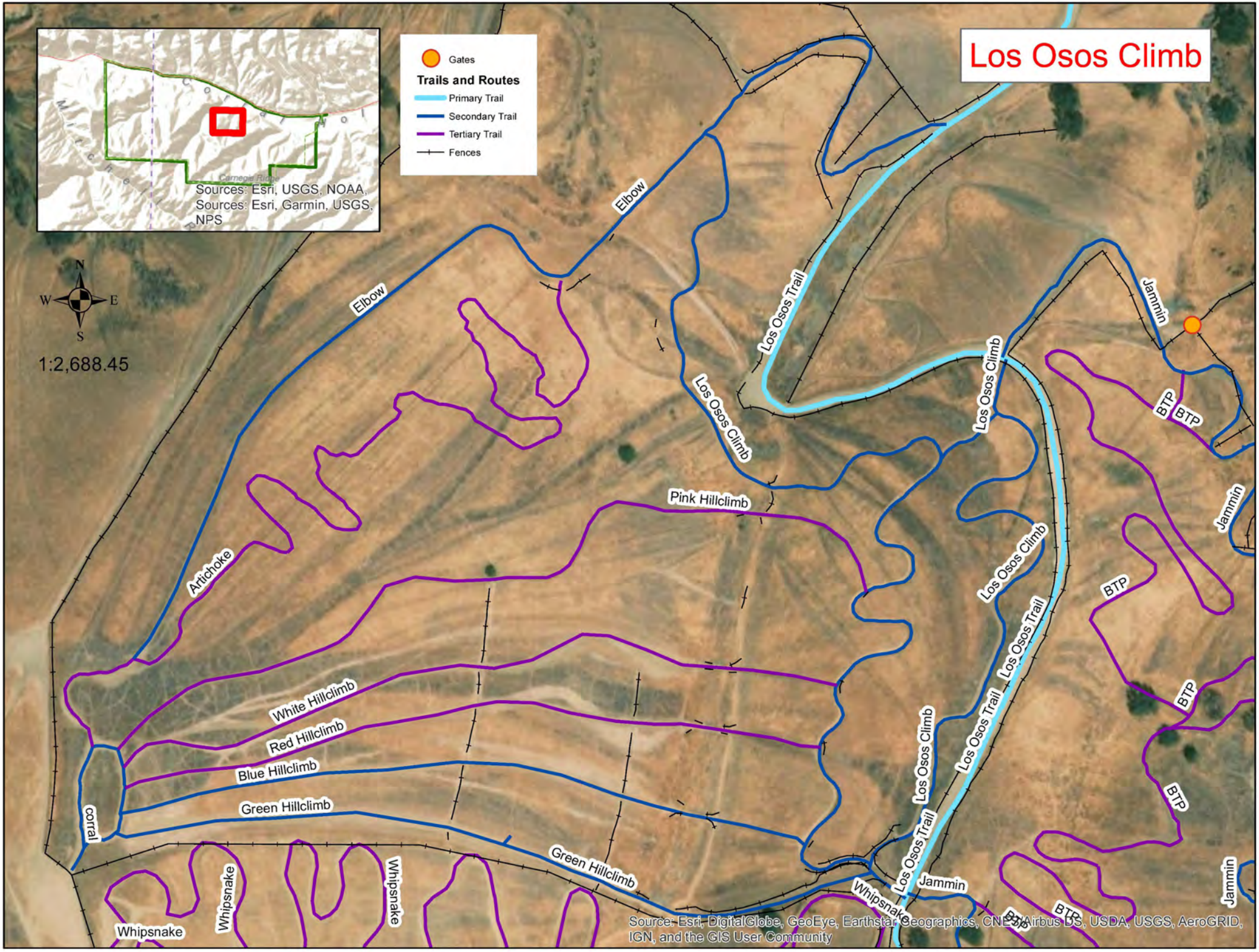

ROADRUNNER RMA
SRI LOOP RMA
Bunkhouse
Bunkhouse
Kiln Trail
SRI Loop
SRI Road
Roadrunner
Thrasher East
Red Tail
Trail
Red Tail
Red Tail
SRI Loop
SRI Loop
SRI Loop
SRI Loop
SRI Loop
Thrasher East
Roadrunner
Red Tail
Raven
Golden Eagle
Trail
Trail
Gates
Fence
Carnegie Park Boundary
Other
Primary Trail
Secondary Trail
Tertiary Trail

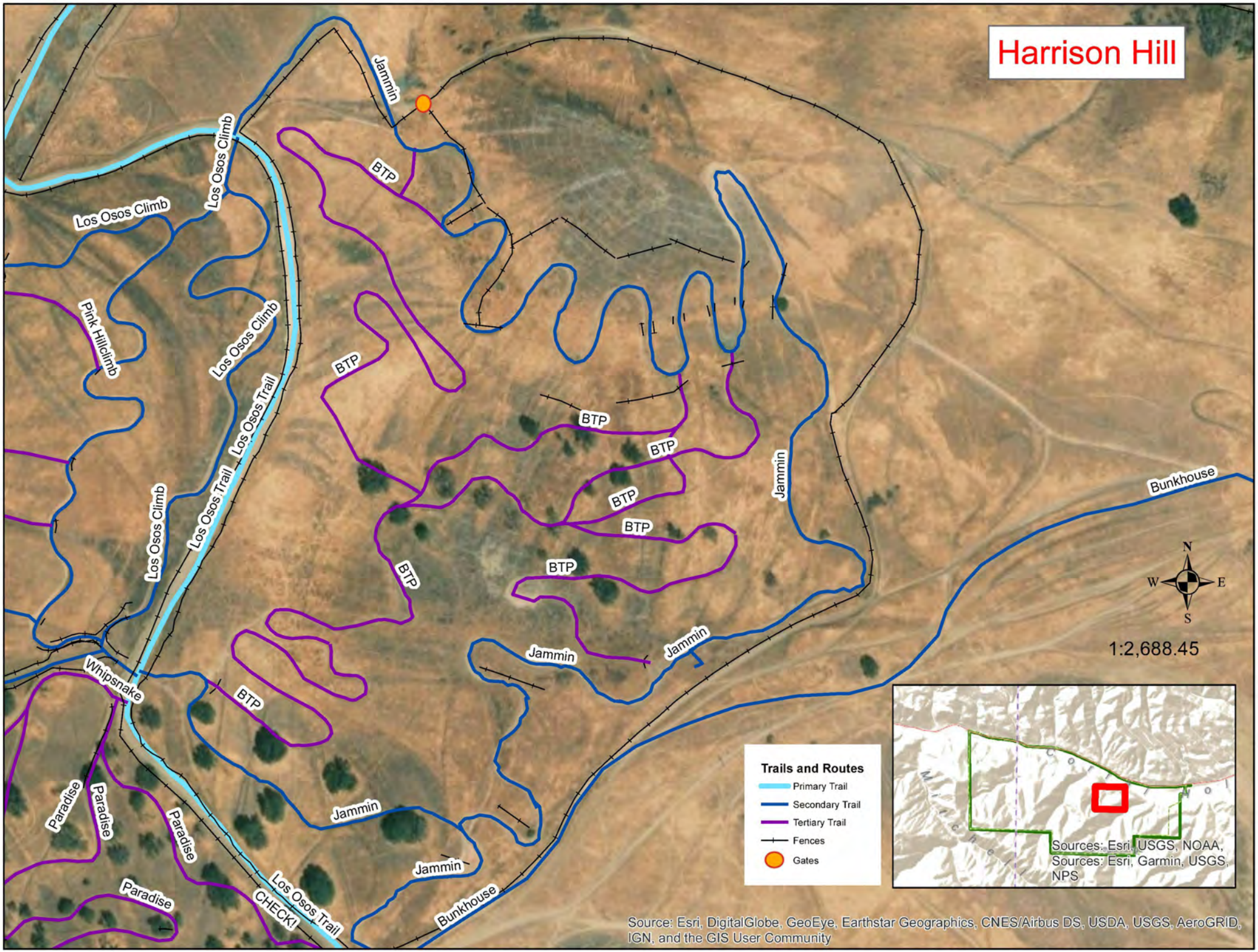

Kiln East
1:4,000
Trails and Routes
Primary Trail
Secondary Trail
Tertiary Trail
Fences
Gates
Kiln Trail
Badger
Raccoon
Raccoon
Sources: Esri, USGS, NOAA
Sources: Esri, Garmin, USGS, NPS
Grizzly
Raven
Raven
Trail
Golden Eagle
Golden Eagle
Trail
Golden Eagle
SRI Road
East Serpentine Trail
Trail
Golden Eagle
Trail
Trail
April 9
Red Trail
Barn Owl
Golden Eagle
Loop
Black Bear
Trail
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

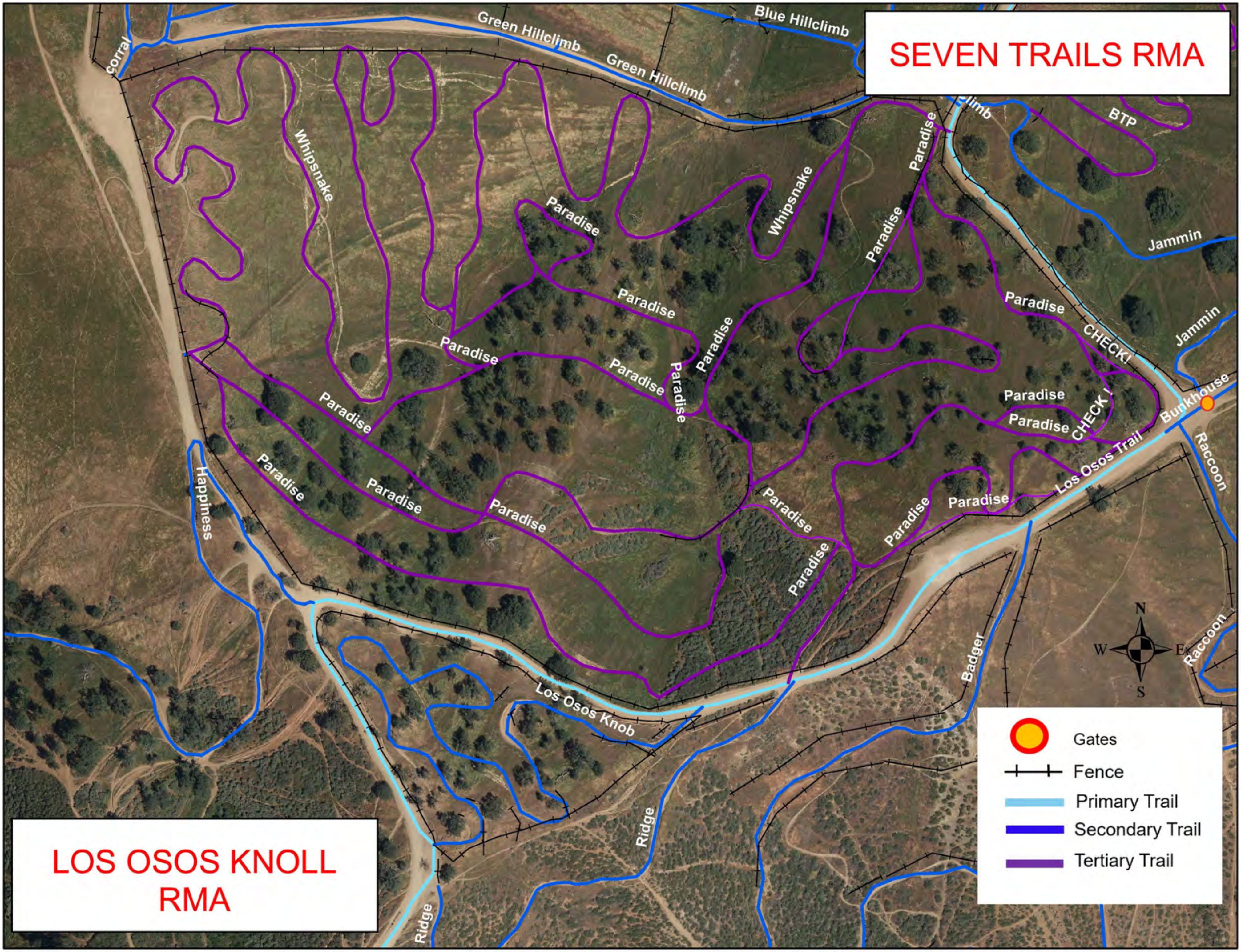

KILN WEST RMA
Paradise
Paradise
Paradise
Paradise
Paradise
Paradise
Paradise
Paradise
Paradise
Happiness
Happiness
Raccoon
Los Osos Trail
Raccoon
Ridge
Kiln Trail
Phase 3
Grizzly
Badger
Ridge
Grizzly
Grizzly
Grizzly
Primary Trail
Secondary Trail
Tertiary Trail
Fence
Ridge
Camel Pack
Camel Pack
Los Osos (Back) Trail
Black Bear
Heater
Shady Forest
Black Bear
April 9
April 9
April 9
Red Tail
East Serpentine Trail
Golden Eagle
Trail
Trail


Bunkhouse
Jammin
BTP
Los Osos Trail
BTP
BTP
BTP
BTP
Jammin
BTP
BTP
BTP
BTP
BTP
Jammin
Jammin
BTP
Jammin
Jammin
Bunkhouse
Raccoon
Bunkhouse
Main Park Road
Z
Bunkhouse
SRI Road
Red Tail
Trail
Red Tail
SRI Road
Red Tail
Red Tail
SRI Loop
Kiln Trail
Primary Trail
Secondary Trail
Tertiary Trail
Fence

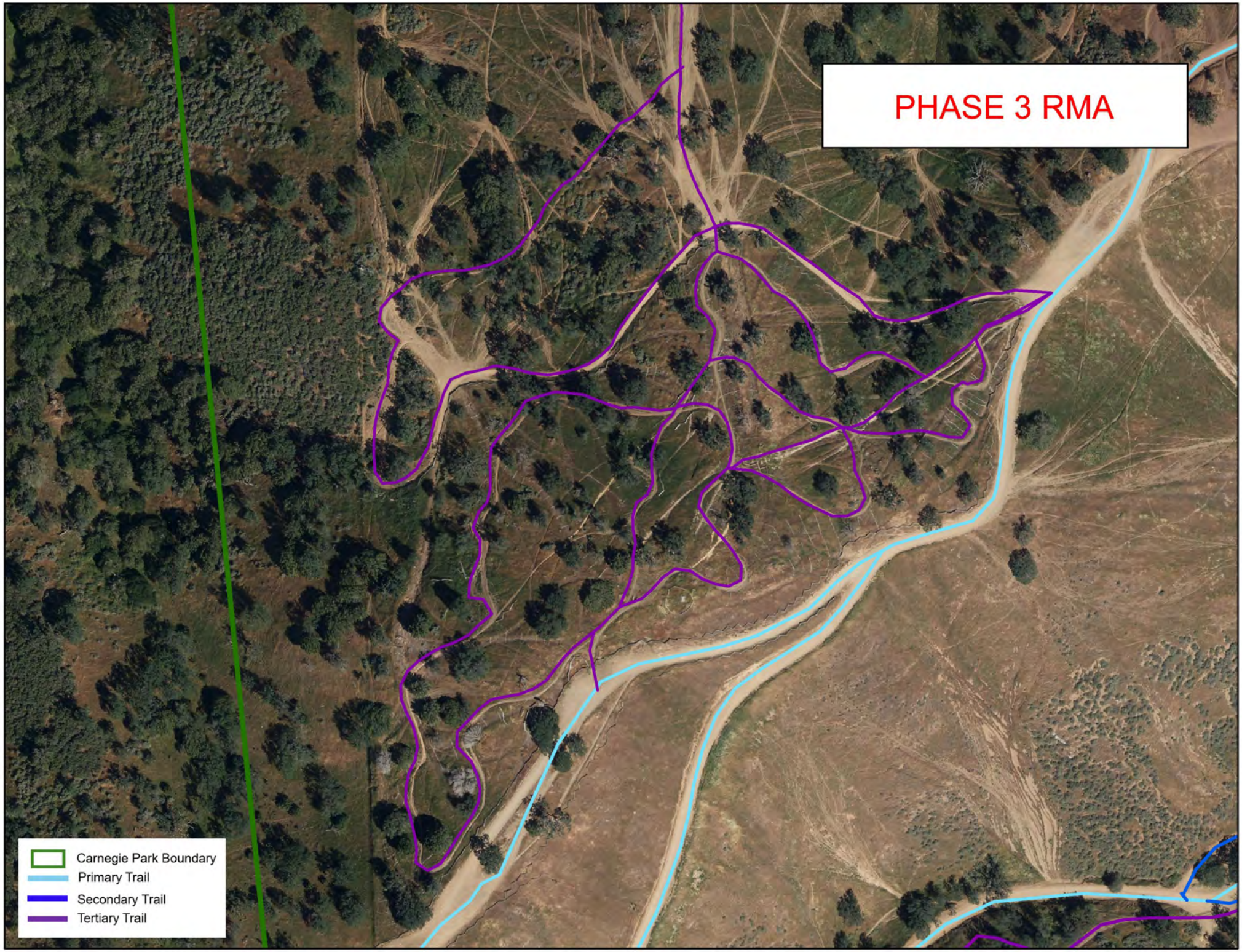

Black Bear (East & West)
Ridge
Badger
Grizzly
Grizzly
Grizzly
Grizzly
Los Osos Trail
Los Osos (Back) Trail
Phase 3
April 9 RedFlags Only
Kiln East
Camel Pack
Camel Pack
April 9 White Flags Only
Shady Forest
April 9
April 9
April 9
Black Bear East
April 9
Shady Forest
Shady Forest
Ridge
Black Bear
Los Osos/Kiln Cut-Thru
Black Bear West
Heater
Cooler
Doe's Run
Kiln Trail
Red Trail
Trails and Routes
Primary Trail
Secondary Trail
Tertiary Trail
Fences
Gates
N
W
E
S
1:3,746.39
Source: Esri, Digit y hstar
IGN, and the GIS User Community
Sources: Esri, USGS, NOAA,
Sources: Esri, Garmin, USGS, NPS

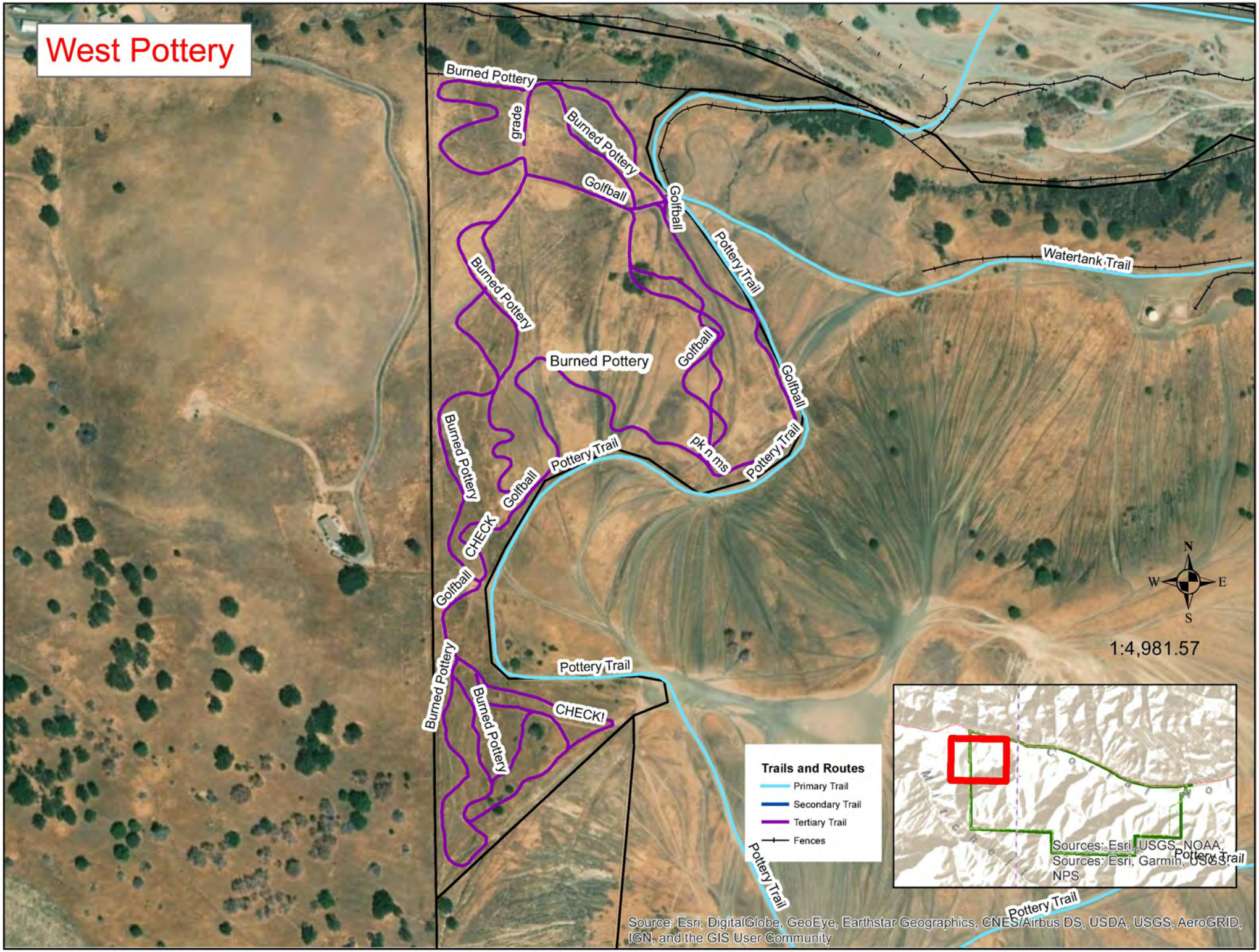

Los Osos Climb
Gates
Trails and Routes
Primary Trail
Secondary Trail
Tertiary Trail
Fences
Sources: Esri, USGS, NOAA,
Sources: Esri, Garmin, USGS, NPS
N
W
E
S
1:2,688.45
Elbow
Elbow
Los Osos Trail
Los Osos Climb
Jammin
BTP
BTP
Pink Hillclimb
Artichoke
Los Osos Climb
Jammin
Los Osos Climb
BTP
Los Osos Trail
White Hillclimb
Red Hillclimb
Blue Hillclimb
Green Hillclimb
corral
Los Osos Trail
Los Osos Trail
Los Osos Climb
BTP
BTP
Green Hillclimb
Whipsnake
Whipsnake
Whipsnake
Whipsnake
Jammin
Jammin
BTP
BTP
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


Harrison Hill
Jammin
Los Osos Climb
Los Osos Climb
Los Osos Climb
Pink Hillclimb
Los Osos Climb
Los Osos Trail
Los Osos Trail
Los Osos Climb
BTP
BTP
BTP
BTP
BTP
BTP
BTP
BTP
BTP
Jammin
Bunkhouse
Jammin
Jammin
Jammin
Whipsnake
BTP
Paradise
Paradise
Paradise
Paradise
Jammin
Jammin
Los Osos Trail
CHECK!
Bunkhouse
N
W
E
S
1:2,688.45
Trails and Routes
Primary Trail
Secondary Trail
Tertiary Trail
Fences
Gates
Sources: Esri, USGS, NOAA,
Sources: Esri, Garmin, USGS, NPS
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



SEVEN TRAILS RMA
LOS OSOS KNOLL RMA
Green Hillclimb
Blue Hillclimb
Corral
Whipsnake
Paradise
BTP
Jammin
CHECK!
Bunkhouse
Raccoon
Los Osos Trail
Happiness
Los Osos Knob
Badger
Ridge
N
S
W
E
Gates
Fence
Primary Trail
Secondary Trail
Tertiary Trail


PHASE 3 RMA
Carnegie Park Boundary
Primary Trail
Secondary Trail
Tertiary Trail


West Pottery
Burned Pottery
grade
Burned Pottery
Golfball
Golfball
Pottery Trail
Watertank Trail
Burned Pottery
Burned Pottery
Golfball
Golfball
Burned Pottery
Golfball
pk n ms
Pottery Trail
Pottery Trail
Pottery Trail
Golfball
CHECK
Golfball
Burned Pottery
Pottery Trail
Burned Pottery
CHECK!
Pottery Trail
Pottery Trail
Trails and Routes
Primary Trail
Secondary Trail
Tertiary Trail
Fences
N
W
E
S
1:4,981.57
Sources: Esri, USGS, NOAA
Sources: Esri, Garmin, USGS, NPS
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Appendix H

Storm Water Quality Data

Carnegie SVRA Storm Water Sampling – Sept 19, 2022

A rain event began at Carnegie SVRA on Sunday, September 18th, 2022. By Monday, September 19th, the precipitation had reached over 0.51 inches in a 24-hour period, triggering the threshold for storm water sampling in the Park. There was not enough flow to warrant collecting samples, but photo points of the 8 sampling locations were taken instead.

Photo 1: CHC In. No Flow.

Photo 2: Tyson’s In.

Photo 3: Tyson’s Out. No Flow.

Photo 4: Carrel's In.

Photo 5: Carrel's Out.

Photo 6: Kiln In.

Photo 7: Kiln Out.

Photo 8: CHC Out.

Carnegie SVRA Stormwater Sampling – September 21, 2022

A rain event began at Carnegie SVRA on Sunday, September 18th, 2022. The rain continued until the morning of Wednesday, September 21, 2022. There was not enough flow to warrant collecting samples, but photo points of the 8 sampling locations were taken instead.

Photo 1: CHC inlet. No flow.

Photo 2: Tyson's Basin inlet. No flow. Culvert is plugged.

Photo 3: Tyson's Basin outlet. No flow.

Photo 4: Carrel's inlet. No flow.

Photo 5: Carrel's outlet. No flow.

Photo 6: Kiln inlet. No flow.

Photo 7: Kiln outlet. No flow.

Photo 8: CHC outlet. No flow.

November 15, 2022

Lab No. : STK2256188
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 7 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(4 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Tyson In	11/08/2022	11/10/2022	STK2256188-003	STM
Carrol In	11/08/2022	11/10/2022	STK2256188-005	STM
Carrol Out	11/08/2022	11/10/2022	STK2256188-006	STM
Kiln In	11/08/2022	11/10/2022	STK2256188-007	STM

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived at 7.2 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
STK2256188-003	Turbidity	48 hours	53.8 hours
STK2256188-005	Turbidity	48 hours	53.4 hours
STK2256188-006	Turbidity	48 hours	53.3 hours
STK2256188-007	Turbidity	48 hours	53.0 hours

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

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CA ELAP Certification No. 2810

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-11-15

Page 2 of 7

November 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2256188-003
Customer No. : 3013589

Sampled On : November 8, 2022 at 10:20
Sampled By : Clint
Received On : November 10, 2022 at 13:30
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	4580	100	55	mg/L	100	-b	11/11/2022	09:00	kqp	SM 2540 D	11/12/2022	08:00	kqp
Turbidity	100000	0.1	0.081	NTU	1	T	11/10/2022	16:08	kqp	SM 2130 B	11/10/2022	16:38	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

Page 3 of 7

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November 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2256188-005
Customer No. : 3013589

Sampled On : November 8, 2022 at 10:43
Sampled By : Clint
Received On : November 10, 2022 at 13:30
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	6490	100	55	mg/L	100	-b	11/11/2022	09:00	kqp	SM 2540 D	11/12/2022	08:00	kqp
Turbidity	100000	0.1	0.081	NTU	1	T	11/10/2022	16:08	kqp	SM 2130 B	11/10/2022	16:40	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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November 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2256188-006
Customer No. : 3013589

Sampled On : November 8, 2022 at 10:49
Sampled By : Clint
Received On : November 10, 2022 at 13:30
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	267	12	6.9	mg/L	10	-b	11/11/2022	09:00	kqp	SM 2540 D	11/12/2022	08:00	kqp
Turbidity	484	0.1	0.081	NTU	1	T	11/10/2022	16:08	kqp	SM 2130 B	11/10/2022	16:41	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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November 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2256188-007
Customer No. : 3013589

Sampled On : November 8, 2022 at 11:11
Sampled By : Clint
Received On : November 10, 2022 at 13:30
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	2490	100	55	mg/L	100	-b	11/11/2022	09:00	kqp	SM 2540 D	11/12/2022	08:00	kqp
Turbidity	6510	0.1	0.081	NTU	1	T	11/10/2022	16:08	kqp	SM 2130 B	11/10/2022	16:42	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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November 15, 2022

Department of Parks and Recreation

Lab No. : STK2256188
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2256188-003)	Dup	NTU		0.0%	20	
Solids, Suspended	2540D	11/11/2022:312946KQP	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	97.3 %	60-109	
			LCS	mg/L	500.0	96.7 %	60-109	
		(STK2256140-001)	Dup	mg/L		2.5%	20	
		(STK2256251-001)	Dup	mg/L		2.6%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Laboratory Copy (1 of 3)

36844:07/04/2022

Client: **Department of Parks and Recreation**
Address: Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550
Phone: (925)447-0958 Fax:
Contact Person: David Burns
Project Name: **Stormwater Monitoring**
Purchase Order Number:
Quote Number:
Sampler(s) Clint
Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___
Lab Number: **STK 2256188** 3-13589

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information: Wet Chemistry-TSS,Turbidity	**Analyzed in STK** 32oz(P), 16oz(P)
1	CHC In			G	STM					
2	CHC Out	~~11/8/22~~		G	STM					
3	Tyson In	11/8/22	10:20	G	STM				1,1	
4	Tyson Out			G	STM					
5	Carrol In	11/8/22	10:43	G	STM				1,1	
6	Carrol Out	11/8/22	10:49	G	STM				1,1	
7	Kiln In	11/8/22	11:11	G	STM				1,1	
8	Kiln Out			G	STM					

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
	11-10-22	10:30	Isaac Salcedo	11/10/22	1330			
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Isaac Salcedo	11/10/22	1030	DN	"/10/2022	1330			

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Carnegie SVRA Storm Water Sampling- December 2, 2022

A rain event began on December 1st and during the evening, the precipitation reached 0.33 inches during a 24 hour period, surpassing the threshold for storm water sampling in the SVRA. The sites were visited the following day, December 2nd. Photos were taken at each site, the photo label indicates if there was flow and if a sample was taken.

Photo 1: CHC in. No flow, no sample taken.

Photo 2: Tyson in. No flow, no sample taken.

Photo 3: Tyson out. No flow, no sample taken.

Photo 4: Carrel in. No flow, no sample taken. Photo for Carrel out is missing, but there was no flow and no sample taken.

Photo 5: Kiln in. No flow, no sample taken.

Photo 6: Kiln out. No flow, no sample taken.

Photo 7: CHC out. No flow, no sample taken.

December 16, 2022

Lab No. : **STK2257110**
Customer No. : **3013589**

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Carrol Out	12/04/2022	12/05/2022	STK2257110-006	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived at 6.2 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: MKH

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-12-17

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December 16, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2257110-006
Customer No. : 3013589

Sampled On : December 4, 2022 at 11:50
Sampled By : Nicole
Received On : December 5, 2022 at 14:35
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	34.8	1.1	0.59	mg/L	1	f	12/06/2022	14:00	cth	SM 2540 D	12/07/2022	08:00	cth
Turbidity	124	0.1	0.047	NTU	1		12/05/2022	15:35	jk	SM 2130 B	12/05/2022	15:46	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.

ND=Non-Detected, RL=Reporting Level

Page 2 of 3

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December 16, 2022

Department of Parks and Recreation

Lab No. : STK2257110
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2257110-006)	Dup	NTU		1.6%	20	
Solids, Suspended	2540D	12/06/2022:313150CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	97.6 %	60-109	
			LCS	mg/L	500.0	97.6 %	60-109	
		(STK2257107-001)	Dup	mg/L		2.8%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Annual

Chain of Custody

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Laboratory Copy (1 of 3)

36844:07/04/2022

Client: **Department of Parks and Recreation**
Address: Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Phone: (925)447-0958 Fax:

Contact Person: David Burns

Project Name: **Stormwater Monitoring**

Purchase Order Number:

Quote Number:

Sampler(s) Nicole

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **STK 225710** 3-13589

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information: Wet Chemistry-TSS,Turbidity **Analyzed in STK** 32oz(P), 16oz(P)							
1	CHC In			G	STM				~~1,1~~							
2	CHC Out			G	STM				~~1,1~~							
3	Tyson In			G	STM				~~1,1~~							
4	Tyson Out			G	STM				~~1,1~~							
5	Carrol In	12/4/22	11:50	G	STM				~~1,1~~							
6	Carrol Out	12/4/22	11:50	G	STM				1,1							
7	Kiln In			G	STM				~~1,1~~							
8	Kiln Out			G	STM				~~1,1~~							

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
Stewart Mo	12.5.22	1300	Oscar Salcedo	12/5/22	1435			
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Oscar Salcedo	12/5/22	1300	JR	12/5/22	1435			

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December 15, 2022

Lab No. : STK2257589
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 6 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(4 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
CHC Out	12/12/2022	12/12/2022	STK2257589-002	STM
Tyson Out	12/12/2022	12/12/2022	STK2257589-004	STM
Carrol Out	12/12/2022	12/12/2022	STK2257589-006	STM
Kiln Out	12/12/2022	12/12/2022	STK2257589-008	STM

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at 2.5 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: SVH

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-12-17

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December 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : CHC Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2257589-002
Customer No. : 3013589

Sampled On : December 12, 2022 at 13:24
Sampled By : Brandon N
Received On : December 12, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	896	40*	mg/L		40	-b	12/13/2022	15:30	cth	SM 2540 D	12/14/2022	08:00	cth
Turbidity	808	0.1	NTU		1		12/12/2022	15:14	kqp	SM 2130 B	12/12/2022	17:33	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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December 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2257589-004
Customer No. : 3013589

Sampled On : December 12, 2022 at 12:47
Sampled By : Brandon N
Received On : December 12, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	232	10*	mg/L		10	-b	12/13/2022	15:30	cth	SM 2540 D	12/14/2022	08:00	cth
Turbidity	300	0.1	NTU		1		12/12/2022	15:14	kqp	SM 2130 B	12/12/2022	17:35	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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December 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2257589-006
Customer No. : 3013589

Sampled On : December 12, 2022 at 13:13
Sampled By : Brandon N
Received On : December 12, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	103	4*	mg/L		4	-b	12/13/2022	15:30	cth	SM 2540 D	12/14/2022	08:00	cth
Turbidity	117	0.1	NTU		1		12/12/2022	15:14	kqp	SM 2130 B	12/12/2022	17:36	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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December 15, 2022

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2257589-008
Customer No. : 3013589

Sampled On : December 12, 2022 at 13:50
Sampled By : Brandon N
Received On : December 12, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	223	10*	mg/L		10	-b	12/13/2022	15:30	cth	SM 2540 D	12/14/2022	08:00	cth
Turbidity	931	0.1	NTU		1		12/12/2022	15:14	kqp	SM 2130 B	12/12/2022	17:37	kqp

DQF Flags Definition:
b The Blank was positive for constituent but less than the PQL

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

Page 5 of 6

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December 15, 2022

Department of Parks and Recreation

Lab No. : STK2257589
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2257589-002)	Dup	NTU		0.1%	20	
Solids, Suspended	2540D	12/13/2022:313219CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	98.1 %	60-109	
			LCS	mg/L	500.0	99.0 %	60-109	
		(STK2257597-002)	Dup	mg/L		3.8%	20	
		(STK2257663-001)	Dup	mg/L		4.2%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Laboratory Copy (1 of 3)

36844:01/03/2022

Client: **Department of Parks and Recreation**

Address: Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Phone: (925)447-0958 Fax:

Contact Person: David Burns

Project Name: **Stormwater Monitoring**

Purchase Order Number:

Quote Number:

Sampler(s) Brandon N

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **STK** 2257589 **3-13589**

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Wet Chemistry-TSS,Turbidity **Analyzed in STK** 32oz(P), 16oz(P)								
1	~~CHC In~~	1'		G	STM				~~1,1~~								
2	CHC Out	12/11/22	1324	G	STM				1,1								
3	~~Tyson In~~			G	STM				~~1,1~~								
4	Tyson Out	12/11/22	1247	G	STM				1,1								
5	~~Carrol~~ In			G	STM				~~1,1~~								
6	Carrol Out	12/11/22	1313	G	STM				1,1								
7	~~Kiln In~~			G	STM				~~1,1~~								
8	Kiln Out	12/11/22	1350	G	STM				1,1								

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
N. Icole K	12/12/2022	1030	Isaac Salcedo	12/12/22	1400			
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Isaac Salcedo	12/12/22	1030 ~~1400~~	JR	12/12/22	1400			

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In-House Condition Upon Receipt (Attach COC) 2257589

CC CH (STK) VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 2.5 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? (Yes) No N/A
6. Verify sample data, time, sampler (Yes) No
7. Were samples received intact? (i.e. no broken bottles, leaks etc.) (Yes) No
8. Were sample custody seals intact? Yes No (N/A)

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? (Yes) No
2. Did bottle labels correspond with the client's ID's? (Yes) No
3. Were all bottles requiring sample preservation properly preserved? Yes No (N/A) FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No (N/A)
5. Were all analyses within holding times at time of receipt? (Yes) No
6. Have rush or project due dates been checked and accepted? (N/A) Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): JR

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

January 5, 2023

Lab No. : STK2258164
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 9 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(7 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
CHC Out	12/27/2022	12/28/2022	STK2258164-002	STM
Tyson In	12/27/2022	12/28/2022	STK2258164-003	STM
Tyson Out	12/27/2022	12/28/2022	STK2258164-004	STM
Carrol In	12/27/2022	12/28/2022	STK2258164-005	STM
Carrol Out	12/27/2022	12/28/2022	STK2258164-006	STM
Kiln In	12/27/2022	12/28/2022	STK2258164-007	STM
Kiln Out	12/27/2022	12/28/2022	STK2258164-008	STM

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at 9.1 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: SVH

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-01-05

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : CHC Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-002
Customer No. : 3013589

Sampled On : December 27, 2022 at 12:01
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	8560	170*	mg/L		200		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	9050	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	09:59	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

Page 2 of 9

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-003
Customer No. : 3013589

Sampled On : December 27, 2022 at 10:48
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	6250	200*	mg/L		200		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	100000	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	09:57	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-004
Customer No. : 3013589

Sampled On : December 27, 2022 at 10:54
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	2280	100*	mg/L		100		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	4780	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	10:00	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-005
Customer No. : 3013589

Sampled On : December 27, 2022 at 11:19
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	9320	200*	mg/L		200		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	4830	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	10:01	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-006
Customer No. : 3013589

Sampled On : December 27, 2022 at 11:23
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	2120	100*	mg/L		100		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	4090	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	10:02	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-007
Customer No. : 3013589

Sampled On : December 27, 2022 at 11:42
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	2620	100*	mg/L		100		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	3800	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	10:03	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2258164-008
Customer No. : 3013589

Sampled On : December 27, 2022 at 11:51
Sampled By : Nicole
Received On : December 28, 2022 at 14:00
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	1860	100*	mg/L		100		12/29/2022	11:00	kqp	SM 2540 D	12/30/2022	08:00	kqp
Turbidity	2680	0.1	NTU		1		12/29/2022	08:30	kqp	SM 2130 B	12/29/2022	10:04	kqp

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

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January 5, 2023

Department of Parks and Recreation

Lab No. : STK2258164
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2258164-003)	Dup	NTU		0.0%	20	
Solids, Suspended	2540D	12/29/2022:313343KQP	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	94.7 %	60-109	
			LCS	mg/L	500.0	96.6 %	60-109	
		(STK2258204-002)	Dup	mg/L		1.3%	20	
		(STK2258106-001)	Dup	mg/L		9.2%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Analytical Chemists

Annual

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Laboratory Copy (1 of 3)

36844:01/03/2022

Client: **Department of Parks and Recreation**

Address: Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Phone: (925)447-0958 Fax:

Contact Person: David Burns

Project Name: **Stormwater Monitoring**

Purchase Order Number:

Quote Number:

Sampler(s) Nicole

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **STK 2258164** 3-13589

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Wet Chemistry-TSS,Turbidity **Analyzed in STK** 32oz(P), 16oz(P)								
1	CHC In			G	STM				1,1								
2	CHC Out	12/27/22	12:01	G	STM				1,1								
3	Tyson In	12/27/22	10:48	G	STM				1,1								
4	Tyson Out	12/27/22	10:54	G	STM				1,1								
5	Carrol In	12/27/22	11:19	G	STM				1,1								
6	Carrol Out	12/27/22	11:23	G	STM				1,1								
7	Kiln In	12/27/22	11:42	G	STM				1,1								
8	Kiln Out	12/27/22	11:51	G	STM				1,1								

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
	12/27/22	1400	Isaac Salcedo	12/28/22	1400			
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Isaac Salcedo	12/28/22	1010		12/28/22	1400			

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In-House Condition Upon Receipt (Attach to COC) 2258164

CC CH STK VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 9.1 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample data, time, sampler Yes No
7. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): GR

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

January 16, 2023

Lab No. : STK2330111
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Tyson Out	12/28/2022	01/03/2023	STK2330111-004	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived at 6.1 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
STK2330111-004	Turbidity	48 hours	165.8 hours

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-01-16

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330111-004
Customer No. : 3013589

Sampled On : December 28, 2022 at 11:54
Sampled By : N. Kleponis
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	138	4	2.2	mg/L	4		01/04/2023	10:45	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	209	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:05	jk

DQF Flags Definition:
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

Page 2 of 3

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January 16, 2023

Department of Parks and Recreation

Lab No. : STK2330111
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2330113-004)	Dup	NTU		0.9%	20	
Solids, Suspended	2540D	01/04/2023:310020CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	96.6 %	60-109	
			LCS	mg/L	500.0	97.2 %	60-109	
		(STK2330069-001)	Dup	mg/L		6.6%	20	
		(STK2330103-001)	Dup	mg/L		1.0%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Lab# STK2330111

2500 Stagecoach Rd
Stockton, CA 95215
Fruit Growers Lab 209 942 0182 jimk@fglinc.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: | Phone #:

Company/Address: 15751 Tesla Rd, Livermore, CA 94550 | Fax #:

Electronic Data Deliverables Request:
- [x] .PDF
- [x] Geotracker (Global ID) _____
- [ ] Other (please specify) _____

Email Address:

Project Number/P.O#: | Project Name: Carnegie SVRA

Project Location: 15751 Tesla Rd. Livermore, CA 94550 | Sampler Signature:

ANALYSIS REQUEST

Sample ID	Sampling		Container					Method Preserved				Matrix			TSS	Turbidity	Requested TAT: Standard	Bin#: / Due Date: / Work Order: / LAB USE ONLY:
	Date	Time	125 mL Poly	HNO3 Poly	NaOH Poly	40 mL VOA		HCl	HNO3	ICE	NONE / OTHER	WATER	Soil					
CHC IN																		
TY 1																		
TY 2	12/28	11:54													X	X		
CAR 1																		
CAR 2																		
KILN 1																		
KILN 2																		
CHC OUT																		

Relinquished by:	Date	Time	Received by:
N. Kleponis	12/31/22	15:00	Isaac Salcedo
~~JR~~ I.S.	1/3/23	1450	JR
~~JR 1/3/23~~	~~1/3/23~~	~~1500~~	~~GLS~~

Relinquished by: (Date / Time) — Received by Laboratory:

Remarks/Condition of Sample:

Bill To:

In-House Condition Upon Receipt (Attach to COC) 2330111

CC CH STK VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 6.1 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample data, time, sampler Yes No
7. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): GR

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

January 16, 2023

Lab No. : STK2330112
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Tyson Out	12/29/2022	01/03/2023	STK2330112-004	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived at 6.1 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
STK2330112-004	Turbidity	48 hours	136.5 hours

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-01-16

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CA ELAP Certification No. 2810

January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330112-004
Customer No. : 3013589

Sampled On : December 29, 2022 at 17:10
Sampled By : N. Kleponis
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	71.9	3.3	1.8	mg/L	3		01/04/2023	10:45	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	238	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:06	jk

DQF Flags Definition:
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

Page 2 of 3

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CA ELAP Certification No. 2810

January 16, 2023

Department of Parks and Recreation

Lab No. : STK2330112
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2330113-004)	Dup	NTU		0.9%	20	
Solids, Suspended	2540D	01/04/2023:310020CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	96.6 %	60-109	
			LCS	mg/L	500.0	97.2 %	60-109	
		(STK2330069-001)	Dup	mg/L		6.6%	20	
		(STK2330103-001)	Dup	mg/L		1.0%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Lab # STK 2330112

2500 Stagecoach Rd
Stockton, CA 95215
Fruit Growers Lab 209 942 0182 jimk@fglinc.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:	Phone #:	Electronic Data Deliverables Request: ☒ .PDF ☐ Geotracker (Global ID) ____ ☐ Other (please specify) ____
Company/Address: 15751 Tesla Rd, Livermore, CA 94550	Fax #:	Email Address:
Project Number/P.O#:	Project Name: Carnegie SVRA	
Project Location: 15751 Tesla Rd. Livermore, CA 94550	Sampler Signature:	

ANALYSIS REQUEST Page 1 1

Sample ID	Sampling Date	Sampling Time	Container: 125 mL Poly	Container: HNO3 Poly	Container: NaOH Poly	Container: 40 mL VOA	Method Preserved: HCl	Method Preserved: HNO3	Method Preserved: ICE	Method Preserved: NONE / OTHER	Matrix: WATER	Matrix: Soil	TSS	Turbidity
CHC IN														
TY 1														
TY 2	12/29	17:10											X	X
CAR 1														
CAR 2														
KILN 1														
KILN 2														
CHC OUT														

Requested TAT: Standard

Bin#:

Due Date:

Work Order:

LAB USE ONLY:

Relinquished by:	Date	Time	Received by:
N. Kleponis	12/31/22	15:00	Isaac Salcedo
Relinquished by:	Date	Time	Received by Laboratory:
I.S.	1/3/23	1450	

Remarks/Condition of Sample:

Bill To:

In-House Condition Upon Receipt (Attach to COC) 233012

CC CH STK VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 6.1 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample data, time, sampler Yes No
7. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): QR

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

January 16, 2023

Lab No. : STK2330113
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Tyson Out	12/30/2022	01/03/2023	STK2330113-004	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived at 6.1 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
STK2330113-004	Turbidity	48 hours	114.8 hours

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-01-16

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CA ELAP Certification No. 2810

January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330113-004
Customer No. : 3013589

Sampled On : December 30, 2022 at 14:50
Sampled By : N. Kleponis
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	246	6.7	3.7	mg/L	7		01/04/2023	10:45	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	112	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:55	jk

DQF Flags Definition:
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

Page 2 of 3

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CA ELAP Certification No. 2810

January 16, 2023

Department of Parks and Recreation

Lab No. : STK2330113
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2330113-004)	Dup	NTU		0.9%	20	
Solids, Suspended	2540D	01/04/2023:310020CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	96.6 %	60-109	
			LCS	mg/L	500.0	97.2 %	60-109	
		(STK2330069-001)	Dup	mg/L		6.6%	20	
		(STK2330103-001)	Dup	mg/L		1.0%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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CA ELAP Certification No. 2810

Lab #STK 2330113

2500 Stagecoach Rd
Stockton, CA 95215
Fruit Growers Lab 209 942 0182 jimk@fglinc.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: | Phone #:

Company/Address: 15751 Tesla Rd, Livermore, CA 94550 | Fax #:

Project Number/P.O#: | Project Name: Carnegie SVRA

Project Location: 15751 Tesla Rd. Livermore, CA 94550 | Sampler Signature:

Electronic Data Deliverables Request:
- [ ] .PDF
- [ ] Geotracker (Global ID) _____
- [ ] Other (please specify) _____

Email Address:

ANALYSIS REQUEST Page 1 1

Bin#:
Due Date:
Work Order:

Sample ID	Sampling		Container					Method Preserved				Matrix			TSS	Turbidity	Requested TAT: Standard	LAB USE ONLY:
	Date	Time	125 mL Poly	HNO3 Poly	NaOH Poly	40 mL VOA		HCl	HNO3	ICE	NONE / OTHER	WATER	Soil					
CHC IN																		
TY 1																		
TY 2 OUT	12/30	14:50													X	X		
CAR 1																		
CAR 2																		
KILN 1																		
KILN 2																		
CHC OUT																		

Relinquished by:	Date	Time	Received by:
N. Kleporis	12/31/22	15:00	Isaac Salcedo
Relinquished by:	Date	Time	Received by Laboratory:
I.S.	1/3/23	1450	

Remarks/Condition of Sample:

Bill To:

In-House Condition Upon Receipt (Attach to COC) 2330113

CC CH STK VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 6.1 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample data, time, sampler Yes No
7. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): _____

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

January 16, 2023

Lab No. : STK2330085
Customer No. : 3013589

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Laboratory Report

Introduction: This report package contains a total of 11 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(8 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
CHC In	12/31/2022	01/03/2023	STK2330085-001	STM
CHC Out	12/31/2022	01/03/2023	STK2330085-002	STM
Tyson In	12/31/2022	01/03/2023	STK2330085-003	STM
Tyson Out	12/31/2022	01/03/2023	STK2330085-004	STM
Carrol In	12/31/2022	01/03/2023	STK2330085-005	STM
Carrol Out	12/31/2022	01/03/2023	STK2330085-006	STM
Kiln In	12/31/2022	01/03/2023	STK2330085-007	STM
Kiln Out	12/31/2022	01/03/2023	STK2330085-008	STM

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived at 6.1 ° C. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
STK2330085-001	Turbidity	48 hours	92.9 hours
STK2330085-002	Turbidity	48 hours	91.7 hours
STK2330085-003	Turbidity	48 hours	92.7 hours
STK2330085-004	Turbidity	48 hours	92.6 hours
STK2330085-005	Turbidity	48 hours	92.4 hours
STK2330085-006	Turbidity	48 hours	92.3 hours
STK2330085-007	Turbidity	48 hours	92.0 hours
STK2330085-008	Turbidity	48 hours	91.9 hours

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted

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in the Quality Control Section of this report.

Test Summary	
SM 2130 B	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)
SM 2540 D	Preparation and analysis performed by FGL-Stockton (FGL-STK ELAP# 1563)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-01-16

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : CHC In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-001
Customer No. : 3013589

Sampled On : December 31, 2022 at 12:47
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	11700	200	110	mg/L	200	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	510	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:57	jk
Turbidity	5100	1	0.47	NTU	10	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:56	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : CHC Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-002
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:56
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	5230	200	110	mg/L	200	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	418	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:58	jk
Turbidity	4180	1	0.47	NTU	10	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:57	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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January 16, 2023

Department of Parks and Recreation
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Livermore, CA. 94550

Description : Tyson In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-003
Customer No. : 3013589

Sampled On : December 31, 2022 at 12:58
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	14200	200	110	mg/L	200	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	943	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:59	jk
Turbidity	9430	1	0.47	NTU	10	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	09:58	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Tyson Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-004
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:03
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	619	33	18	mg/L	30	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	914	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:00	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-005
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:19
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	9960	200	110	mg/L	200	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	524	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:01	jk
Turbidity	5240	1	0.47	NTU	10	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:00	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Carrol Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-006
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:23
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	3660	100	55	mg/L	100	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	351	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:02	jk
Turbidity	3510	1	0.47	NTU	10	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:01	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln In
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-007
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:41
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	7860	100	55	mg/L	100	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	4440	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:03	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level

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January 16, 2023

Department of Parks and Recreation
Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Description : Kiln Out
Project : Stormwater Monitoring WDID# 5S39M2000007

Lab No. : STK2330085-008
Customer No. : 3013589

Sampled On : December 31, 2022 at 13:48
Sampled By : Nicole
Received On : January 3, 2023 at 14:50
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Solids, Total Suspended (TSS)	1760	100	55	mg/L	100	f	01/04/2023	16:15	cth	SM 2540 D	01/05/2023	08:00	cth
Turbidity	4510	0.1	0.047	NTU	1	T	01/04/2023	09:40	jk	SM 2130 B	01/04/2023	10:04	jk

DQF Flags Definition:
f MS/MSD QC requirement met by BS/BSD due to limited sample volume.
T Exceeded method/regulatory-specific holding time.

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January 16, 2023

Department of Parks and Recreation

Lab No. : STK2330085
Customer No. : 3013589

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Turbidity	2130B	(STK2330113-004)	Dup	NTU		0.9%	20	
Solids, Suspended	2540D	01/04/2023:310029CTH	Blank	mg/L		ND	<1	
			LCS	mg/L	500.0	97.7 %	60-109	
			LCS	mg/L	500.0	98.1 %	60-109	
		(STK2330066-001)	Dup	mg/L		4.3%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
ND : Non-detect - Result was below the DQO listed for the analyte.

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Annual

Laboratory Copy (1 of 2)

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Client: **Department of Parks and Recreation**

Address: Diablo Range District
Attn. Park Maintenance Chief
15751 Tesla Road
Livermore, CA. 94550

Phone: (925)447-0958 Fax:

Contact Person: David Burns

Project Name: **Stormwater Monitoring**

Purchase Order Number:

Quote Number:

Sampler(s) Nicole

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **STK** 2330085 **3-13589**

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information: Wet Chemistry-TSS,Turbidity	**Analyzed in STK** 32oz(P), 16oz(P)								
1	CHC In	12/31	12:47	G	STM				1,1									
2	CHC Out	12/31	13:56	G	STM				1,1									
3	Tyson In	12/31	12:58	G	STM				1,1									
4	Tyson Out	12/31	13:03	G	STM				1,1									
5	Carrol In	12/31	13:19	G	STM				1,1									
6	Carrol Out	12/31	13:23	G	STM				1,1									
7	Kiln In	12/31	13:41	G	STM				1,1									
8	Kiln Out	12/31	13:48	G	STM				1,1									

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	1/3/23	1350	Isaac Salcedo	1/3/23	1450			
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Isaac Salcedo	1/3/23	1350	[signature]	1/3/23	1450			

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

In-House Condition Upon Receipt (Attach to COC) 2330085

CC CH STK VI SP

Sample Receipt:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition? Temps: 6.1 / ____ / ____ / ____ / ____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample data, time, sampler Yes No
7. Were samples received intact? (i.e. no broken bottles, leaks etc) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Include a copy of the COC for lab delivery. (Bacti, Inorganics and Radio)

Sample Receipt, Login and Verification completed by (initials): JR

Discrepancy Documentation: (attach additional pages if needed)
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:

   Resolution:

Attach label with lab number here

Use this form when all containers are staying in the lab and not being shipped to FGL-SP

Appendix I

Trail Evaluation Form

Carnegie SVRA Trail Condition Evaluation Code Key

Category	Green	Yellow	Red
Water Control Is there rilling and/or gullying on the trail? (Rill is 1" to 6" depth, Gully is >6" depth and 12" wide)	No rilling or gullying present Water control is sufficient to divert runoff	Rilling is present but no gullying Rilling is not prevented by existing BMPs because they've been degraded and are in need of maintenance, e.g. existing rolling dip is worn down.	Gully is present and/or rilling is present Rilling is occurring because existing BMPs are inadequate and BMPs need to be added, e.g. additional rolling dips need to be added.
Erosion on the Shoulder of Trails Is there accelerated erosion occurring on the shoulder of the trail?	No accelerated erosion is occurring on the shoulder of the trail.	Rill erosion is occurring on the shoulder of the trail.	Gully erosion is occurring on the shoulder of the trail.
Tread Wear Is the tread showing signs of wear?	Tread wear is minimal. Tread is compacted and easy to transverse.	Tread wear is evident. Tread is loose and challenging to transverse for over 1/3 of the trail or trail segment.	Tread wear is severe. Tread is loose and challenging to transverse for over 2/3 of the trail or trail segment.
Tread Widening Is the trail wider than designed?	Trail is not wider than designed or trail is wider but not more than 1.5 times wider.	Trail is 2 times wider but not greater than 3 times wider than designed for over 1/3 of the trail or trail segment.	Trail is 3 times or more wider than designed for over 1/3 of the trail or trail segment.
Off-trail Travel Are there unauthorized trails or routes that intercept this trail? *Mark as green if in an open riding area	No unauthorized trails or routes are occurring along this trail.	Unauthorized trails or routes are occurring off trail. Unauthorized trails or routes are **not** effecting the trail design.	Unauthorized trails or routes are occurring off trail. Unauthorized trails or routes are effecting the trail design.

Cause Codes			
C1	Water breaks/rolling dips not constructed to design standards	**C11**	Rocks or roots exposed in tread
C2	Water breaks/rolling dips spacing too wide for conditions	**C12**	Barriers (natural or constructed) to control traffic is lacking
C3	Cascading runoff from a trail or road upslope	**C13**	Mechanical erosion makes maintenance ineffective
C4	Cascading runoff from an impervious surface upslope	**C14**	Excessive tread width
C5	Wet area caused by a seep or spring	**C15**	Design/layout/construction prevents effective drainage
C6	Excess soil moisture at time of use	**C16**	Uncompact side cast on outboard slope
C7	Trail section is poorly located	**C17**	Berms, whoops, and stutter bumps
C8	Trail gradient is too steep for the type and/or amount of use occurring	**C18**	Crossing alters channel dimensions and/or stream gradient
C9	Segment is not designed for the type or amount of use occurring	**C19**	Rutting or vegetation damage to sensitive habitat
C10	Trail blockage, e.g. brush, logs, rock fall, landslide	**C20**	Excessive tread wear

Calculating the Overall Rating			
	Green	**Yellow**	**Red**
	1 point/each	**2 points/each**	**3 points/each**
1			
2			
3			
4			
5			
Total for each row			
Total for all rows (Overall Rating)			

Overall Rating	
Green	0-5 Points
Yellow	6-10 Points
Red	11-15 Points

Trail Width	
Single Track	24 inches
Single Track-SWECO Maintained	48 Inches
Quad	48 Inches
Full Size Vehicle	96 Inches

Carnegie SVRA Trail Evaluation by Zone Code Key

Category	No Maintenance	Low Level Maintenance	High Level of Maintenance
Vegetation Cover How much vegetation cover is in the zone or sub-zone?	More than 90 percent of the zone or sub-zone has vegetation cover.	More than 70 percent but less than 90 percent of the zone or sub-zone has vegetation cover.	Less than 70 percent of the zone or sub-zone has vegetation cover.
Soil Loss Are there signs of soil loss/accelerated erosion in the zone or sub-zone?	Minimal signs of accelerated erosion occurring within the zone or sub-zone. Some rilling may be occurring but no gullying. Rills are **less than** five linear features.	Signs of accelerated erosion occurring in the zone or sub-zone. Erosion is in the form of rilling but no gullying. Rills are **more than** five linear features.	Signs of accelerated erosion occurring in the zone or sub-zone. Erosion is in the form of gulling.
Erosion in Drainage Is the drainage downhill and/or within the zone or sub-zone experiencing accelerated erosion?	No accelerated erosion in drainage(s)is occuring or there is no drainage feature within or adjacent to the zone or sub-zone.	Accelerated erosion occurring in the drainage(s) in the form of rilling.	Accelerated erosion occurring in the drainage(s) in the form of gullying.
Tread Wear (Non-Named Trails) Are the trail's tread showing signs of wear?	Only Named Trails Exist in zone or sub-zone- **-OR--** Tread wear is minimal. Tread is compacted and easy to transverse.	Tread wear is evident. Tread is loose and challenging to transverse for over 1/3 of the non-named trails in the zone or sub-zone.	Tread wear is severe. Tread is loose and challenging to transverse for over 2/3 of the non-named trails in the zone or sub-zone.

Cause Codes			
C1	Water breaks/rolling dips not constructed to design standards	**C11**	Rocks or roots exposed in tread
C2	Water breaks/rolling dips spacing too wide for conditions	**C12**	Barriers (natural or constructed) to control traffic is lacking
C3	Cascading runoff from a trail or road upslope	**C13**	Mechanical erosion makes maintenance ineffective
C4	Cascading runoff from an impervious surface upslope	**C14**	Excessive tread width
C5	Wet area caused by a seep or spring	**C15**	Design/layout/construction prevents effective drainage
C6	Excess soil moisture at time of use	**C16**	Uncompact side cast on outboard slope
C7	Trail sections are poorly located	**C17**	Berms, whoops, and stutter bumps
C8	Zone gradient is too steep for the type and/or amount of use occurring	**C18**	Crossing alters channel dimensions and/or stream gradient
C9	Zone is not designed for the type or amount of use occurring	**C19**	Rutting or vegetation damage to sensitive habitat
C10	Trail blockage, e.g. brush, logs, rock fall, landslide	**C20**	Excessive tread wear

Calculating the Overall Rating			
	No Mainenance	**Low Level**	**High Level**
	1 point/each	**2 points/each**	**3 points/each**
1			
2			
3			
4			
Total for each row			
Total for all rows (Overall Rating)			

Trail Evaluation by Zone

Trail or Zone Condition	
No Maintenance	0-4
Low Level	5-8
High Level	9-12

Dranage: Refers to either a watercourse or swale.

Gully: An erosion channel cut into the soil along a line of water flow with a minimumdepth o f 6 inches and cross-sectional area of one square foot. Schwab et al, 1993, Soil and Water Engineering USDA, 1993, Soil Survey Manual; USDA, 1993, Soil Survey Manual; and CDF Hillslope Monitoring Study

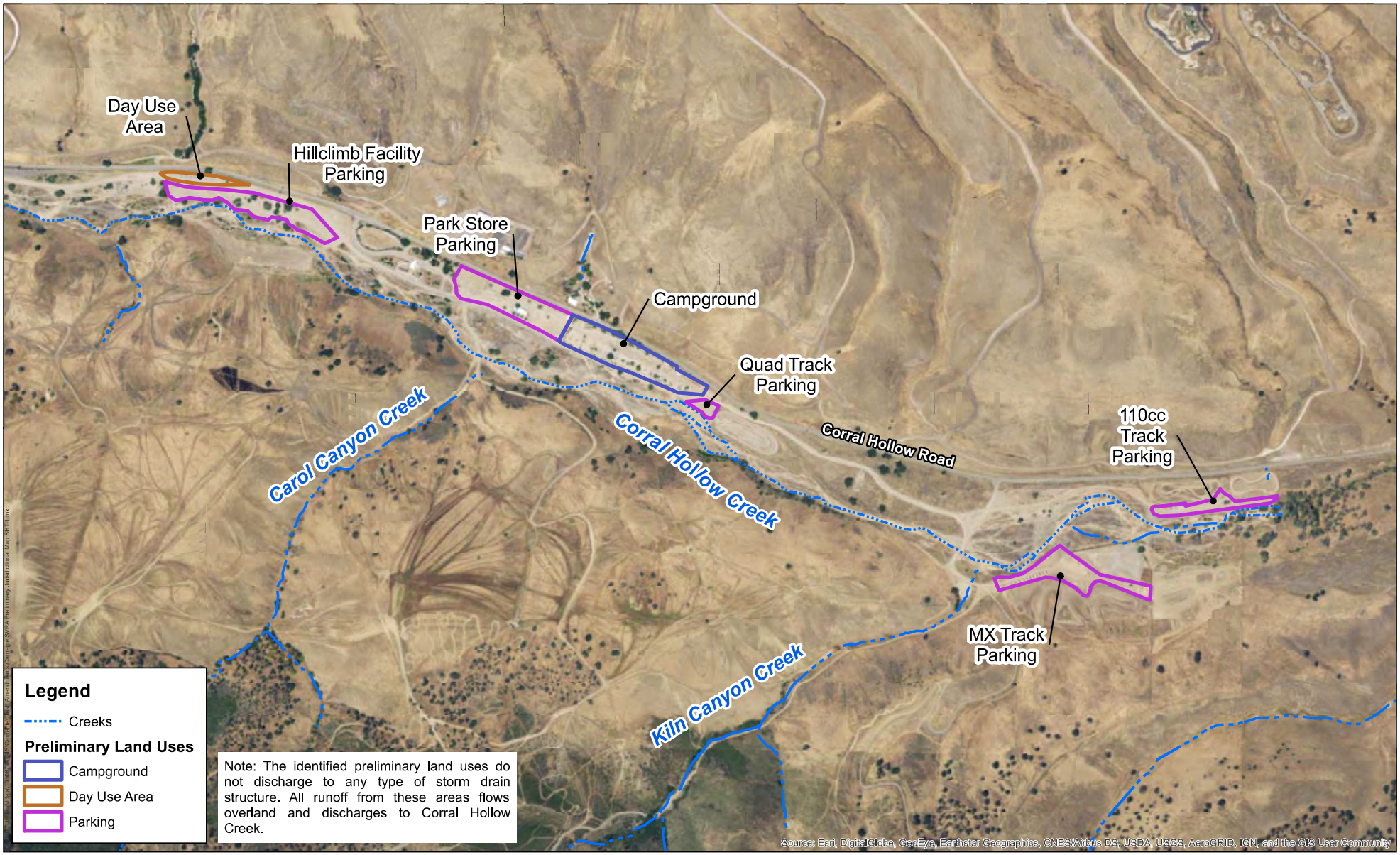
Rill: An erosion channel cut into the soil along a line of water flow greater than 1 inch and less than 6 inches deep. CDF Hillslope Monitoring Program

Swale: A low-lying or depressed and often wet stretch of land; (Merriam Webster)

Watercourse: Any well-defined channel with distinguishable bed and bank showing evidence of having contained flowing water indicated by deposit of rock, sand, gravel, or soil, including but not limited to, streams as defined in PRC 4528 (f). FPRs, 2005, Title 14 CCR 895.1 Definitions

Appendix J

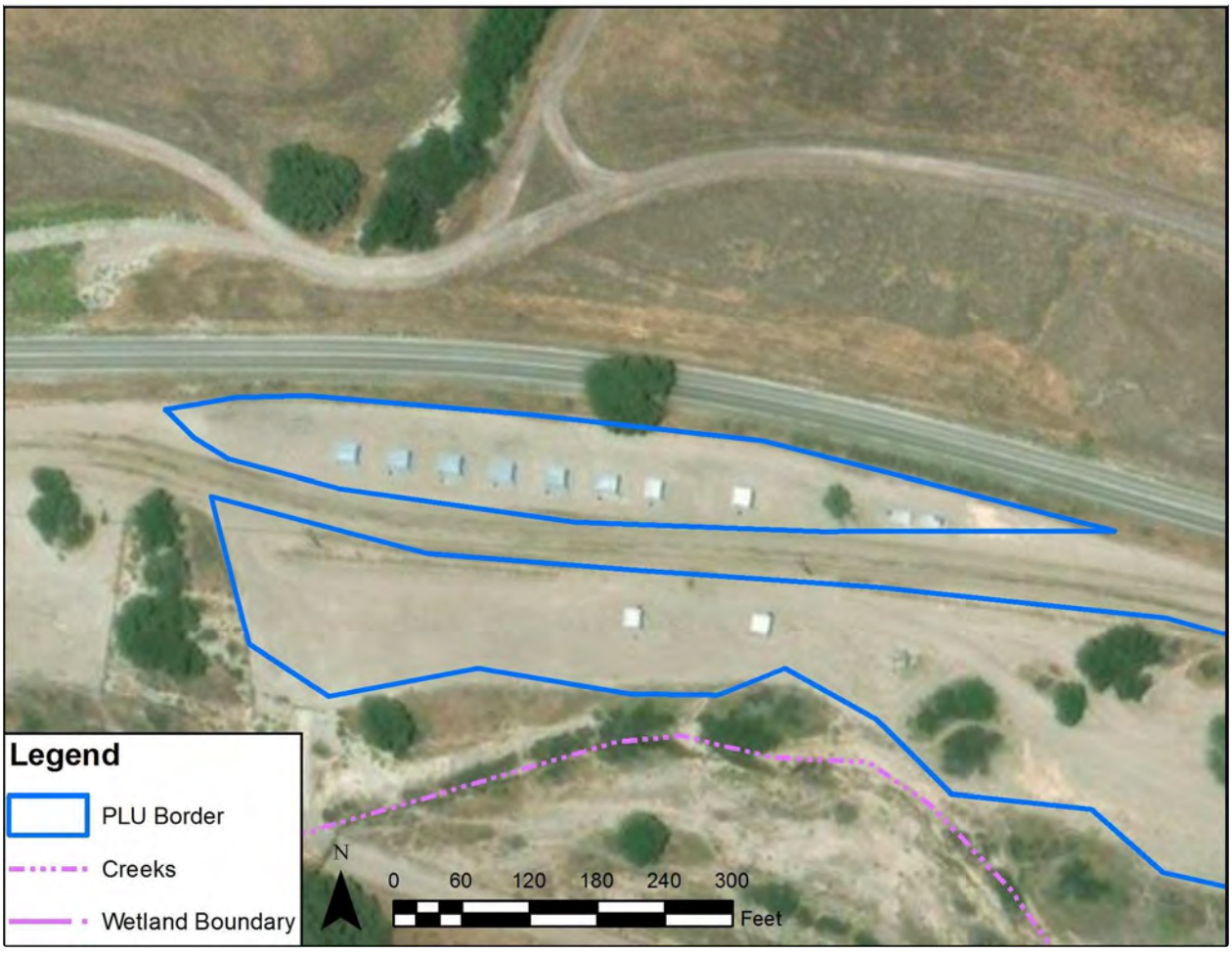
On-Land Visual Trash Assessment Form



Carnegie SVRA Preliminary Jurisdictional Map

On-Land Visual Trash Assessment Form Assessment ID: Day Use Area

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

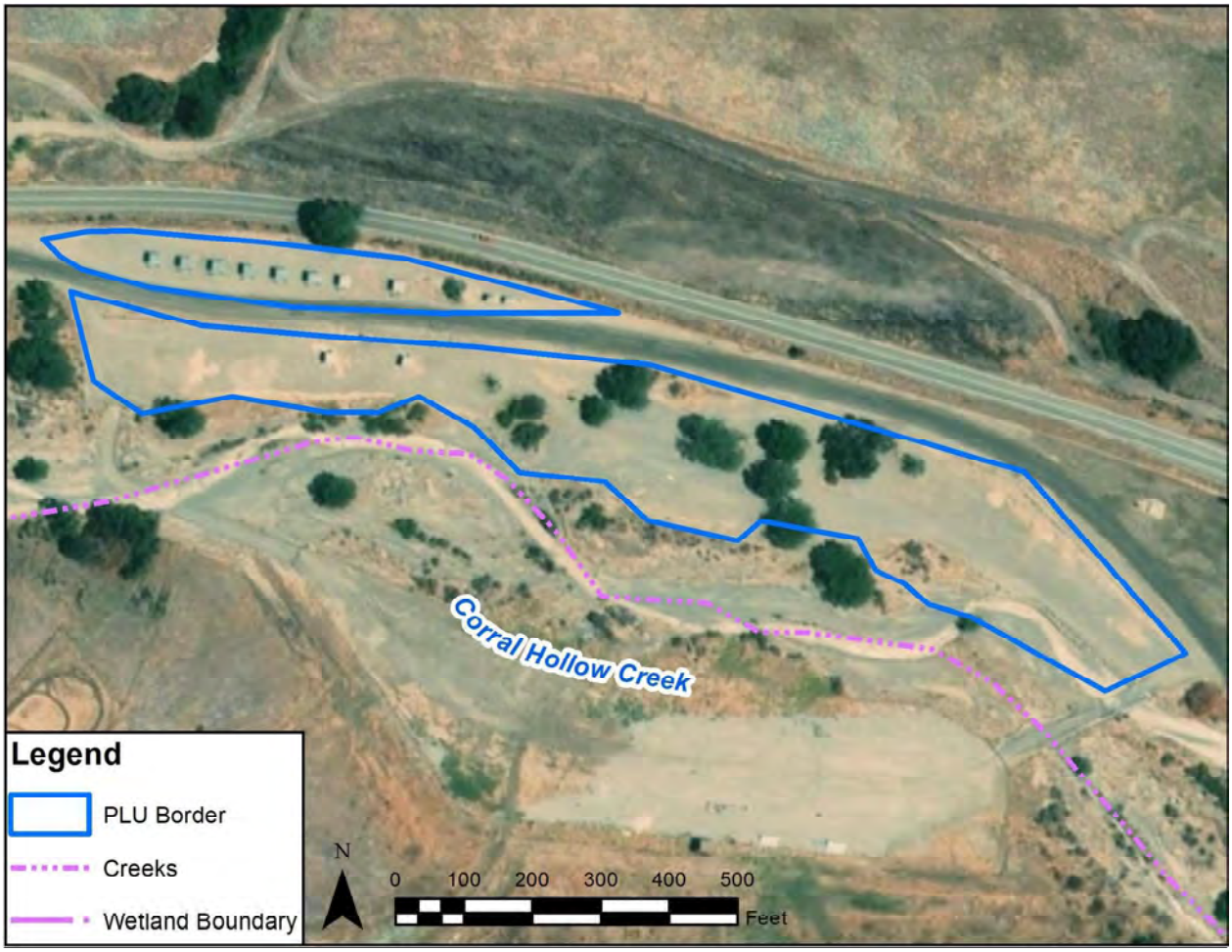
Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form

Assessment ID: Hillclimb Facility Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

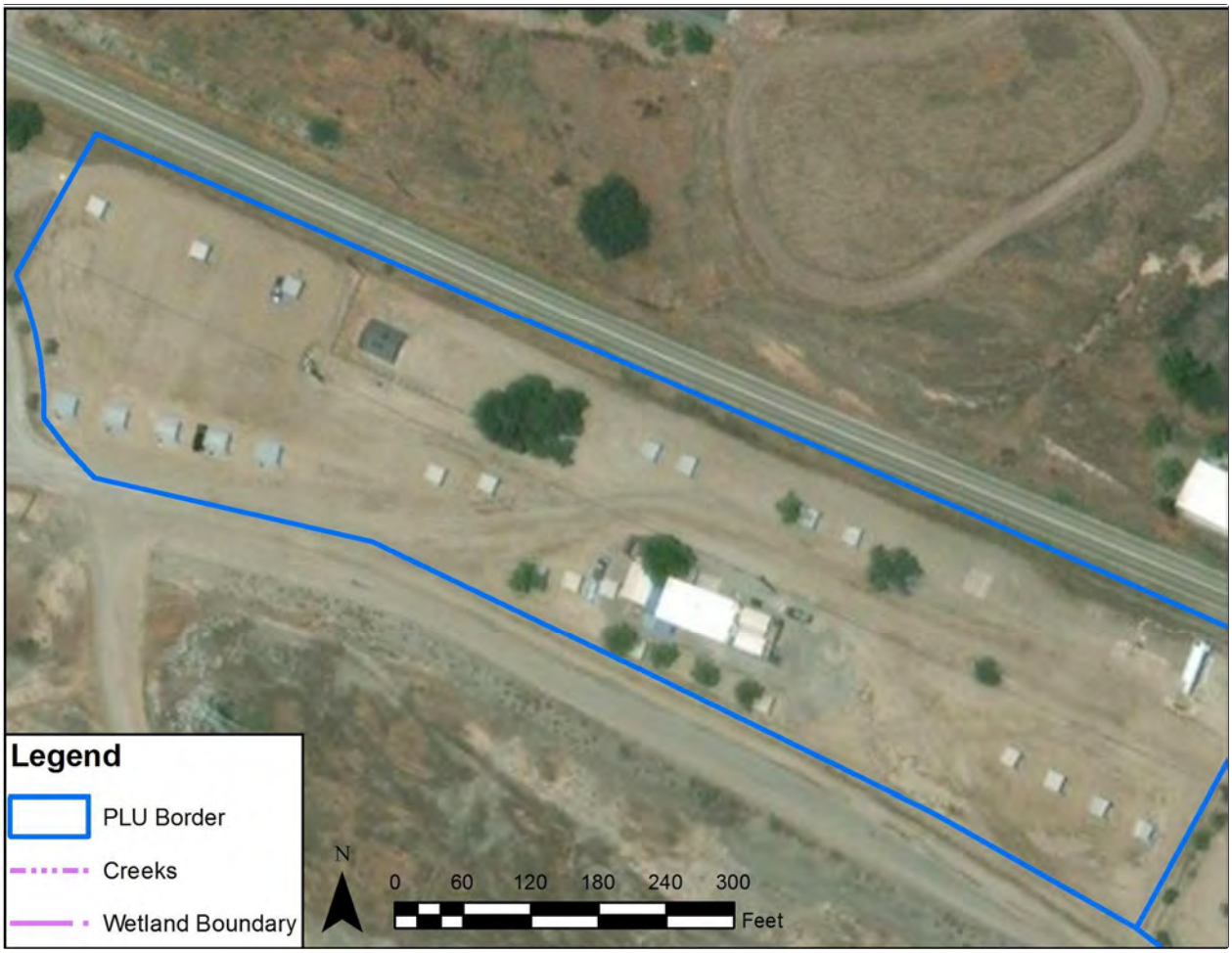
Comments: _____

_____

_____

On-Land Visual Trash Assessment Form Assessment ID: Park Store Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

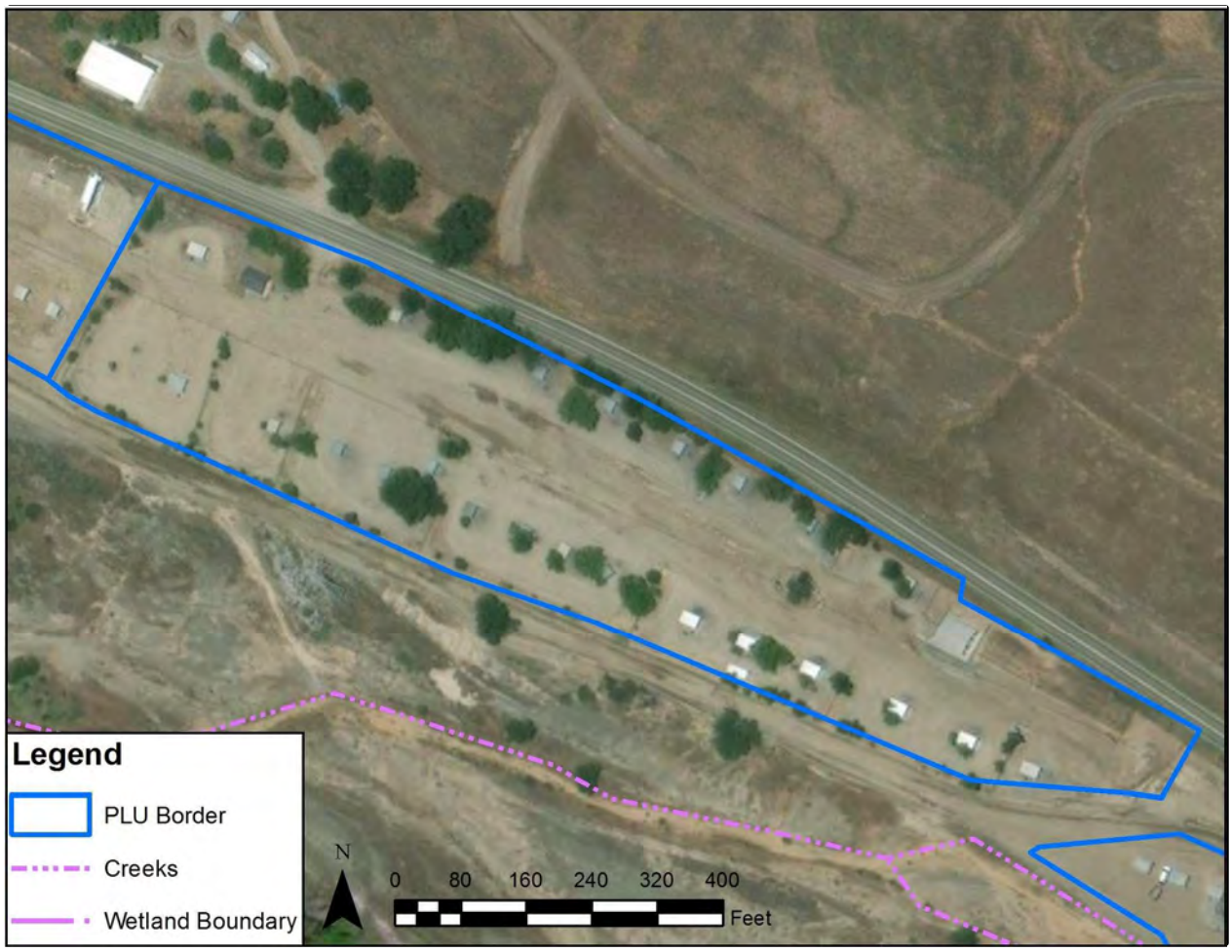
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: Campground

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: Quad Track Parking

Staff: _____ Date: _____ Duplicate: ☐

Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

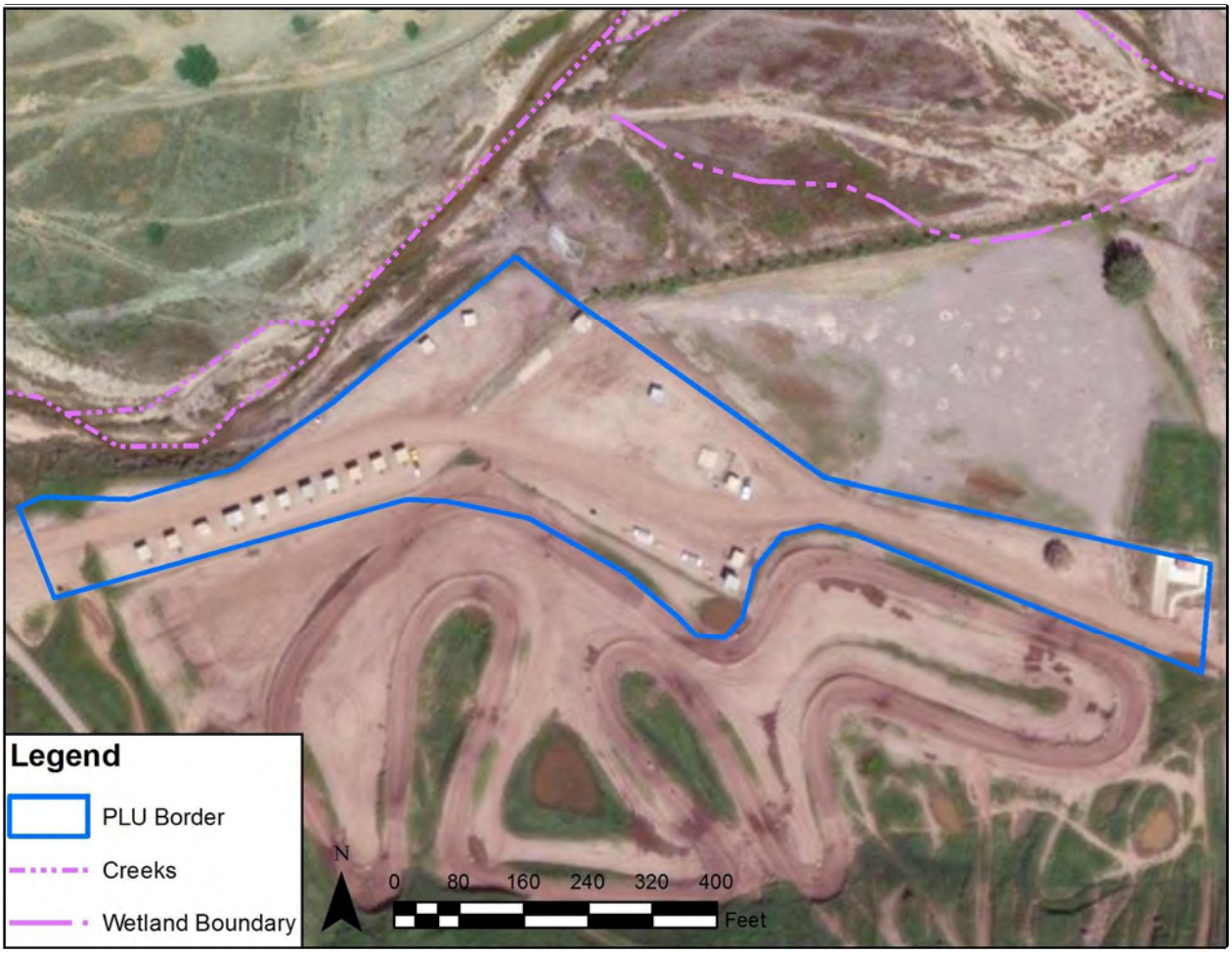
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

On-Land Visual Trash Assessment Form Assessment ID: MX Track Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

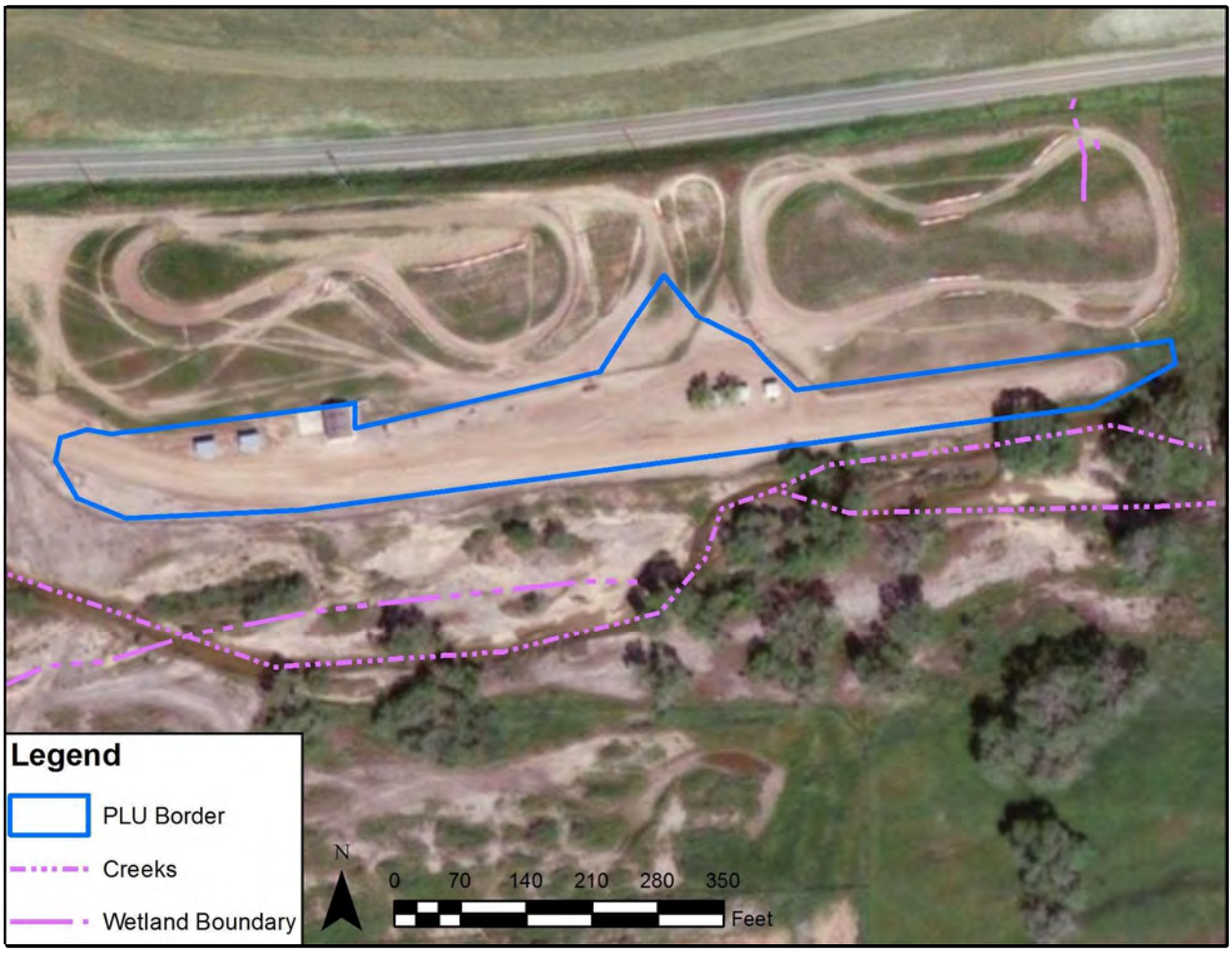
Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments: _____

On-Land Visual Trash Assessment Form Assessment ID: 110cc Track Parking

Staff: _____ Date: _____ Duplicate: ☐



Observed Trash Category: **Low** **Medium** **High** **Very High**

Trash Sources:

1. _____ 4. _____ 7. _____
2. _____ 5. _____ 8. _____
3. _____ 6. _____ 9. _____

# of Photos: _____

Substantial Variation in Category? yes / no

Percent Food & Beverage: none 0-25% 25-50% 50-75% 75-100% NA

Comments:_____
_____
_____

Appendix K

Photo Point Data

Carnegie SVRA Photo Points – 2023 SWMP Annual Report

Site 4 – 2021

Site 4 – 2023

Site 6 – 2022

Site 6 – 2023

Site 7 – 2021

Site 7 – 2023

Site 12 – 2021

Site 12 – 2023

Site 23 – 2021

Site 23 – 2023

Site 24 – 2021

Site 24 – 2023

Site 28 – 2021

Site 28 – 2023

Site 29 – 2022

Site 29 – 2023

Site 47 – 2021

Site 47 – 2023

Site 70 – 2022

Site 70 – 2023

Site 87 – 2021

Site 87 – 2023

Site 94 – 2021

Site 94 – 2023

Site 95 – 2021

Site 95 – 2023

Site 97 – 2021

Site 97 – 2023

Site 122 – 2021

Site 122 – 2023

Site 123 – 2022

Site 123 – 2023

Site 124 – 2021

Site 124 – 2023

Site 133 – 2021

Site 133 - 2023