University of California, Riverside

Spill Prevention, Control & Countermeasures Plan

January 2015

University of California, Riverside
Environmental Health & Safety
900 University Avenue, Riverside CA 92521
(951) 827-5528

Certifications and Approval

SPCC Plan Certification and Management Approval

Certification of Applicability of Substantial Harm Criteria

SPCC Plan Certification

I hereby certify that, being familiar with 40 CFR Part 112, an ALTA Environmental employee has visited and examined the facility and reviewed the Spill Prevention, Control and Countermeasures (SPCC) Plan for the University of California, Riverside campus. This SPCC Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards, and the requirements of 40 CFR Part 112. Procedures for required inspections and testing have been established. The Plan is adequate for the facility.

Steven Morrill
Name

Steven Morrill
Signature

Date March 25, 2015

Registration No. M31384 State California

Management Approval

This Spill Prevention, Control and Countermeasures (SPCC) Plan has the full approval of management, at a level of authority at the University of California, Riverside campus, to commit the necessary resources to fully implement this Plan. This SPCC Plan will be implemented as herein described.

Russell Vernon
Name

Director, Environmental Health & Safety
Title

Russell Vernon
Signature

4/2/2015
Date

Certification of Applicability of Substantial Harm Criteria

Facility Name: University of California, Riverside

Facility Address: 900 University Avenue, Riverside CA 92521

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

☐Yes ☒No

2. Does the facility have a total oil storage capacity greater than or equal to one (1) million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

☐Yes ☒No

3. Does the facility have a total oil storage capacity greater than or equal to one (1) million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

☐Yes ☒No

4. Does the facility have a total oil storage capacity greater than or equal to one (1) million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?

☐Yes ☒No

5. Does the facility have a total oil storage capacity greater than or equal to one (1) million gallons and has the facility experienced a reportable oil discharge in an amount greater than or equal to 10,000 gallons within the last five (5) years?

☐Yes ☒No

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

Signature: Russell Vernon Name: Russell Vernon

Title: Director, EH&S Date: 2/4/2015

Certifications and Approvals

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University of California, Riverside Spill Prevention, Control & Countermeasures Plan

1. Introduction and Plan Content

This Spill Prevention, Control & Countermeasures (SPCC) Plan has been prepared for the University of California, Riverside campus (UCR) located in Riverside, California. This plan has been developed in accordance with 40 CFR Part 112 general requirements for SPCC Plans.

This plan has been specifically been created to address potential spills from oil storage containers and bulk storage containers at the UCR campus. As of the preparation of the most recent five-year review, UCR's aboveground oil storage capacity is approximately 58,503 gallons.

1.1 Plan Purpose and Objectives

The objectives of this plan are to define the spill prevention, control, and countermeasures implemented by the facility. The plan is an integral part of establishing an efficient and effective spill prevention program. The SPCC Plan addresses the following topics:

- Inspection and Records
- Facility Drainage
- Bulk Storage Tanks
- Mobile or Portable Containers
- Oil-filled Operational Equipment
- Personnel Training and Spill Prevention Procedures
- Bulk Liquid Transfer Operations
- Security

1.2 Plan Review and Update Requirements

This plan shall be reviewed and updated at least once every five years. The five-year review, and any technical amendments to the SPCC Plan, must be re-certified by a Professional Engineer (P.E.). The SPCC Plan Designated Person shall be responsible for all reviews and updates made to this plan. Updates and amendments to the SPCC Plan shall be certified and implemented within six months of approval.

The SPCC Plan may be periodically amended to reflect changes in the campus. The plan will be reviewed and updated when necessary under the following circumstances:

- When there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for an oil discharge

- Subsequent to the commission or decommission of any aboveground bulk storage container with a capacity of 55 gallons or greater
- Subsequent to the replacement, reconstruction, or movement of any aboveground bulk storage container with a capacity of 55 gallons or greater
- Subsequent to any construction or demolition that could alter a secondary containment systems of any aboveground bulk storage container with a capacity of 55 gallons or greater
- Subsequent to any revisions of standard operation and maintenance procedures at the facility
- If there is a release of more than 1,000 gallons of oil in a single discharge or more than 42 gallons in each of two discharges during a 12-month period
- If required by the Regional Administrator

1.3 Record of Plan Review and Amendments

A review and evaluation of this SPCC Plan shall be completed at least once every five years {§112.5(b)}. As a result of the review, this Plan shall be amended within six months to include more effective prevention and control measures for the facility, if applicable. Such measures will be implemented as soon as possible, but no later than six months following the Plan amendment. Completion of the review, evaluation and Plan amendment shall be documented at Table 2-1, SPCC Plan Revisions.

Table 1-1 SPCC Plan Revisions

Revision No.	Date	Revised By	Reason for Revision	Section Revised	Reason for Review
0	1/28/2002	WGR Southwest	Initial Preparation	All New	-
1	4/25/2011	WGR Southwest	Update emergency contact list, distribution list & tank list; update location map; add section showing each regulatory section and the page number in the Plan that meets that requirement	Section 2, Table 4.1, Contact lists, location map	Required review and re-certification

Revision No.	Date	Revised By	Reason for Revision	Section Revised	Reason for Review
2	1/30/2015	ALTA Environmental	Five-year review	Update oil storage list, update Facility Map, update emergency contact list, update emergency procedures and notifications, update spill cleanup equipment and contractors, update cross-reference of SPCC Plan requirements	Required five-year review and re-certification

1.4 SPCC Plan Designated Persons and Emergency Contacts

The SPCC Plan Designated Person is Amanda Grey. A copy of this SPCC Plan is available for review at EH&S. Alternate Designated Persons are Russell Vernon and Scott Corrin.

- Primary Contact:

  Amanda Grey
  SPCC Primary Designated Person
  Environmental Programs Manager, EH&S
  Business Phone: (951) 827-2416
  Cell Phone: (714) 323-2052

- Secondary Contacts:

  Russell Vernon, SPCC Alternate Designated Person
  Director, Environmental Health &Safety
  Business Phone: (951) 827-5119, extension 2-5119
  Cell Phone: (951) 295-4904

  Scott Corrin, SPCC Alternate Designated Person
  Campus Fire Marshal
  Business Phone: (951) 827-6309, extension 2-6309
  Cell Phone: (951) 212-3679

All emergency and notification contact information is listed in Table 3-1, SPCC Plan Contacts List.

Table 1-2 SPCC Plan Contacts List

Contact Organization/Person	Telephone Number
UC Riverside SPCC Program Amanda Grey SPCC Primary Designated Person Environmental Programs Manager, EH&S	Business Phone: (951) 827-2416 Cell Phone: (714) 323-2052
Russell Vernon SPCC Alternate Designated Person Director, Environmental Health & Safety	Business Phone: (951) 827-5119 Cell Phone: (951) 295-4904
Scott Corrin SPCC Alternate Designated Person Campus Fire Marshal	Business Phone (951) 827-6309 Cell Phone: (951) 212-3679
UC Riverside Police Department	24-Hour Phone: (951) 951-5222
Oil Spill Cleanup Contractor Clean Harbors Environmental Services Field Services Office 7979 Palm Avenue, Unit E Highland, CA 92346	Emergency Phone (800) 645-8265 Office Phone (909) 742-7477
Alternate Oil Spill Cleanup Contractor PSC Environmental Services/Stericycle Environmental Solutions 2490 W. Pomona Blvd. Pomona, CA 91768	Emergency Phone (877) 577-2669 Office Phone (909) 598-4449
City of Riverside Fire Department	(951) 826-5737
County of Riverside Department of Environmental Health (Certified Unified Program Agency-CUPA)	Toll Free Phone: (888) 722-4234 Office Phone: (951) 358-5055
California Governor's Office of Emergency Services (Cal OES)	(800) 852-7550
National Response Center	(800) 424-8802

1.5 SPCC Plan Administration

The SPCC Plan Primary Designated Person will maintain control over the SPCC Plan/SPCC Program, and will work with the following UCR departments responsible for oil storage to implement the plan:

- Physical Plant
- Agricultural Operations
- Housing, Dining and Residential Services
- Fleet Services
- Highlander Union Building
- UCR Extension

1.6 SPCC Plan Distribution List

Copies of the SPCC Plan are distributed to and maintained at the following UCR department locations:

- Environmental Health & Safety
  900 University Avenue
  Riverside, CA 92521
- Physical Plant Electric Shop
  Corporation Yard Building A
  3401 Watkins Drive
  Riverside, CA 92521
- Physical Plant Grounds: Maintenance, Refuse & Recycling
  Custodial & Grounds Building
  East Campus Drive
  Riverside, CA 92521
- Agricultural Operations
  1060 Martin Luther King Boulevard
  Riverside, CA 92506
- Housing, Dining and Residential Services
  Housing Operations
  3498 Avocado Avenue
  Riverside, CA 92506
- Fleet Services
  Corporation Yard Building C
  3401 Watkins Drive
  Riverside, CA 92521
- Highlander Union Building
  353 Highland Union Building (HUB)
  Riverside, CA 92507
- UCR Extension
  1200 University Avenue
  Riverside, CA 92507
- UC Riverside Police Department
  3500 Canyon Crest Drive
  Riverside, CA 92507

1.7 Description of Emergency Procedures and Notifications

The following are descriptions of immediate actions, procedures and notifications for facility personnel in the event of a discharge {§112.7(a)(3)(iv) and §112.7(a)(5)}. This information is provided at bulk storage container and portable storage areas in the format shown at Appendix

F, Spill Response Procedures Postings:

In the event of a leak or spill of oil, the following immediate actions should be taken:

1. If there is a fire, injury, or spill to the storm drain, immediately call 911 or UC Riverside Police Department at extension 2-5222 or (951) 827-5222

2. If possible, stop the flow of oil or fuel

3. Isolate and contain the spill by creating an earthen berm, or contain with absorbent material from a spill kit, using a shovel or other available equipment (beware of fire danger)

4. Estimate the amount of spilled oil or fuel

5. Make the required notifications

6. Use available cleanup equipment and/or spill cleanup contractors to cleanup the spill, absorbent material, and any contaminated soil

7. Document all spill response and cleanup efforts, including notification calls

In the event of a leak or spill of oil that cannot be cleaned up using campus resources, the following may be contacted:

- Clean Harbors Environmental Services
  Field Services Office
  7979 Palm Avenue, Unit E
  Highland, CA 92346
  Emergency Phone (800) 645-8265
  Office Phone (909) 742-7477

- PSC Environmental Services/Stericycle Environmental Solutions
  2490 W. Pomona Blvd.
  Pomona, CA 91768
  Emergency Phone (877) 577-2669
  Office Phone (909) 598-4449

In the event of a leak or spill of oil, one of the following persons must be notified:

- Amanda Grey, SPCC Primary Designated Person
  Environmental Programs Manager, EH&S
  (951) 827-2416, extension 2-2416

- Russell Vernon, SPCC Alternate Designated Person
  Director, EH&S
  (951) 827-5119, extension 2-5119

- Scott Corrin, SPCC Alternate Designated Person
  Campus Fire Marshal
  (951) 827-6309, extension 2-6309

In the event of a leak or spill of oil, and the SPCC Designated Person or Alternate Designate Person(s) cannot be notified, the following must be contacted:

- UC Riverside Police Department
  (951) 827-5222

  UC Riverside Police Department will notify EH&S and the Campus Fire Marshal

In the event of a leak or spill of oil, the following regulatory agency notifications must be made:

- National Response Center
  (800) 424-8802

- California Governor's Office of Emergency Services (Cal OES)
  (800) 852-7550

- County of Riverside Department of Environmental Health
  (951) 358-5055

  City of Riverside Fire Department
  (951) 826-5737

In the event of a leak or spill of oil, persons making regulatory agency notifications must be prepared to relate the following information:

- Exact address or location, and phone number of the facility
- Date and time of the discharge
- Type of material discharged
- Estimates of the total quantity discharged
- Source of the discharge
- Description of all affected media (soil, water)
- Cause of the discharge
- Actions being used to stop, remove, and mitigate the effects of the discharge
- Whether an evacuation may be needed
- Names of individuals and/or organizations who have also been contacted

In the event of a leak or spill of oil greater than 1,000 gallons in a single discharge, or two discharges of greater than 42 gallons within 12 months, a report must be submitted to the

following regulatory agency including the information described in 40 CFR 112.4(a)(1)-(9) within 60 days:

- U.S. Environmental Protection Agency
  75 Hawthorn Street, San Francisco CA 94105
  (415) 947-8000

1.8 Cross-Reference of SPCC Plan Requirements

Table 1-3 Cross-Reference of SPCC Plan Requirements

40 CFR	Requirement	Location in SPCC Plan
112.3(d)	Have the SPCC Plan certified by a registered professional engineer.	Certifications and Approval
112.3(e)(1)	Maintain a copy of the plan at your facility.	1.6
112.3(e)(2)	Have a copy of the plan on-site for review by the Agency.	1.4
112.4(a)	Whenever your facility discharges >1,000 gallons of oil in a single discharge or has two discharges of > 42 gallons within 12 months, submit the information described in 112.4(a)(1)-(9) to the regional administrator within 60 days.	1.7, 2.6
112.4(d)	Amend the plan if required to do so by the regional administrator.	1.2
112.5(a)	Amend the plan when there is any change that materially affects the potential for a discharge.	1.2
112.5(b)	Review, evaluate, and, as necessary, amend the plan every five (5) years ▪ Implement any amendment within six (6) months.	1.2
112.5(c)	Technical amendments certified by a registered professional engineer.	1.2
112.7	Management must give full approval to the plan and the authority to commit resources.	Certifications and Approval
112.7	The plan must follow the sequence of §112.7, or must meet all SPCC requirements and include a section cross-referencing the location of 40 CFR 112 requirements in the equivalent plan.	1.8
112.7(a)(1)	Include a discussion of facility's compliance with the requirements listed in 40 CFR Part 112.	1., 6.
112.7(a)(2)	Should the plan not conform to the applicable requirements:	N/A

40 CFR	Requirement	Location in SPCC Plan
	▪ State the reasons for nonconformance ▪ Describe in detail alternate methods and how equivalent environmental protection will be achieved	
112.7(a)(3)	Describe physical layout of a facility; include a diagram which shows the location and contents of each container ▪ Include completely buried tanks that are exempted from 40 CFR 112 requirements ▪ Include all transfer stations and connecting pipes ▪ Address the following: i. The type of oil in each container and its storage capacity; ii. Discharge prevention measures, including procedures for routine handling of products; iii. Discharge or drainage controls around containers and other structures, equipment, and other procedures for controlling a discharge; iv. Countermeasures for discharge discovery, response, and cleanup by a facility and that might be required of a contractor; v. Methods of disposal of recovered materials in accordance with applicable legal requirements; and vi. Contact list and phone numbers for a facility response coordinator, National Response Center, cleanup contractors, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge.	2.2, 2.3, 2.4, 2.8, Appendix C Facility Oil Storage Table, 1.4, Table 3-1 SPCC Plan Contacts List
112.7(a)(4)	Provide information and procedures in your plan to enable a person reporting a discharge to provide the information described in 112.7(a)(4).	1.7
112.7(a)(5)	Unless you have submitted a response plan under 40 CFR 112.20, describe emergency response procedures in a user-friendly format, and include appropriate supporting materials as appendices.	1.7
112.7(b)	Discuss the potential for equipment failure. Where experience indicates no reasonable potential for equipment failure, include a statement to this effect.	2.7.3
	Where experience indicates a reasonable potential for equipment failure, include the following for each major type of failure: ▪ A prediction of the discharge's direction;	2.7.3

40 CFR	Requirement	Location in SPCC Plan
	▪ rate of flow; and, and ▪ total quantity of oil which could be discharged	
112.7(c)	Provide one of the following to prevent discharged oil from reaching navigable waters: i. Dikes, berms, or retaining walls sufficiently impervious to contain oil; ii. Curbing or drip pans; iii. Sumps and collection systems; iii. Culverting, gutters, or other drainage systems; iv. Weirs, booms, or other barriers; v. Spill diversion ponds; vi. Retention ponds; or vii. Sorbent materials.	2.5
112.7(d)	If the installation of structures or equipment listed in the sections identified in this section is not practicable as determined by a facility: ▪ Clearly explain why the measures are not practicable; and ▪ Conduct periodic integrity testing for bulk storage containers and leak testing of valves and piping.	2.7
112.7(e)	Conduct inspections in accordance with inspection procedures included in the plan ▪ Have the inspections signed by the appropriate inspector/supervisor; and ▪ Keep a record of the inspections in the plan for three (3) years	5.2
112.7(f)(1)	Train the oil handling personnel in the operation and maintenance of equipment to prevent discharges, discharge procedure protocols, pollution control laws, regulations, and the contents of the plan.	5.1
112.7(f)(2)	Designate a person accountable for discharge prevention who reports to facility management.	1.5
112.7(f)(3)	Conduct discharge prevention briefings for oil-handling personnel at least once a year. Discuss known discharges, failures, malfunctions, and recently developed precautionary measures.	5.1.2
112.7(g)(1)	Fully fence facilities handling, processing, and/or storing oil; and lock and/or guard entrance gates when a facility is unattended or not in production.	4.1
112.7(g)(2)	Provide adequate security to ensure that master flow and drain valves remain locked when a facility is unattended or not in production.	N/A

40 CFR	Requirement	Location in SPCC Plan
112.7(g)(3)	Lock oil pump starter controls in the “off” position, and locate the controls at locations accessible only to authorized personnel.	N/A
112.7(g)(4)	Securely cap or blank flange the loading/unloading connections of oil pipelines or facility piping if the piping is not in service or on stand-by status for an extended time.	N/A
112.7(g)(5)	Provide sufficient lighting to allow the discovery of discharges and to prevent discharges occurring through acts of vandalism.	4.2
112.7(h)(1)	Where drainage from the unloading area does not flow into a catchment basin or a treatment facility, use a quick drainage system or a containment system, which holds the largest compartment of any tank car or truck.	3.1
112.7(h)(2)	Provide an interlocked warning light or brake interlock system, physical barrier system, wheel chocks, or warning signs to prevent the departure of vehicles before all oil transfer lines are disconnected.	3.1
112.7(h)(3)	Prior to filling and departure, inspect the lowermost drain and all outlets for leakage on the tank car/tank truck, and adjust to prevent discharge while in transit.	3.1
112.7(i)	If a field-constructed aboveground container undergoes repair, alteration, or change in service that may affect the risk of failure, or due to failure or discharge due to brittle fracture or other catastrophe, evaluate the container for risk of brittle or catastrophic failure and take appropriate action.	N/A
112.7(j)	Provide a complete discussion of the conformance of the plan to all other applicable discharge prevention and containment requirements, or any applicable more stringent State rules, regulations, and guidelines.	6.
112.8(b)(1)	Restrain drainage from diked storage areas by valves or other positive means to prevent an oil discharge or excessive leakage into a facility drainage or effluent treatment system.	N/A
112.8(b)(2)	Use valves of the manual, open-and-closed design for the drainage of diked areas. You may not use flapper-type valves.	N/A
112.8(b)(3)	For undiked areas with a potential for discharge ▪ Design the drainage systems to flow into a pond, lagoon or catchment basin designed to retain oil	N/A

40 CFR	Requirement	Location in SPCC Plan
	or return it to the facility ▪ Do not locate catchment basins in areas subject to periodic flooding	
112.8(b)(4)	For a facility not engineered as in 112.8(b)(3), equip the final discharge of all ditches inside a facility with a diversion system that would, in the event of an uncontrolled discharge, retain the oil in the facility.	N/A
112.8(b)(5)	Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps, with at least one permanently installed. Engineer facility drainage systems to prevent a discharge in case there is an equipment failure or human error at a facility	N/A
112.8(c)(1)	Only use a container where the material and method of construction are compatible with the stored material and the conditions of storage, such as pressure and temperature.	2.8.1.3
112.8(c)(2)	Provide all container installations with secondary containment for the entire installation, the containment to have a capacity of the largest single container, and sufficient freeboard to contain precipitation.	2.8.1.1, 2.8.2
112.8(c)(2)	Ensure that diked areas (walls, floors, dikes, containment curbs, pits) are sufficiently impervious to contain discharged oil.	2.4.2, 2.4.3, 2.4.5, 2.8.1.1
112.8(c)(3)	Prevent the discharge of uncontaminated precipitation from diked container areas directly into a storm drain unless you: (i) Normally keep the bypass valve sealed closed. (ii) Inspect the retained rainwater to ensure that its presence will not cause a discharge. (iii) Open the bypass valve and reseal it following drainage under responsible supervision; and (iv) Keep adequate records of such events.	2.4.5
112.8(c)(4)	Protect any completely buried metallic storage tanks installed after January 10, 1974 by coating or cathodic protection; and regularly leak test those tanks.	N/A
112.8(c)(5)	Protect the buried portion of any partially buried metallic storage tanks by coating or cathodic protection, or do not use the tanks.	N/A
112.8(c)(6)	Test aboveground containers on a regular schedule for integrity using visual inspections and another system of testing determined in accordance with industry standards.	5.2

40 CFR	Requirement	Location in SPCC Plan
	Also: ▪ Keep comparison records ▪ Inspect the supports and foundations of the containers ▪ Frequently inspect the outside of all containers visually for deterioration, discharges, or accumulation of oil inside diked areas ▪ Keep records of inspections and tests under usual and customary business practices	
112.8(c)(7)	Control leakage of internal heating coils by monitoring steam return or exhaust lines for oil, or pass the lines through a separation or retention system.	N/A
112.8(c)(8)	Engineer or update each container installation in accordance with good engineering practice to avoid discharges, providing at least one of the following devices: (i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice. (ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level. (iii) Direct audible or code signal communication between the container gauger and the pumping station. (iv) A fast response system for determining the liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers. (v) You must regularly test liquid level sensing devices to ensure proper operation.	3.1
112.8(c)(9)	Observe the effluent treatment plant frequently enough to detect possible system upsets that could cause a discharge.	N/A
112.8(c)(10)	Promptly correct visible discharges from container seams, gaskets, piping, pumps, valves, rivets, and bolts. Promptly remove any accumulated oil in diked areas.	5.2
112.8(c)(11)	Position or locate mobile or portable containers to prevent a discharge. Furnish a secondary means of containment sufficient to contain the capacity of the largest single container with sufficient freeboard to contain precipitation.	2.4.3, 2.4.4, 2.8.2, Appendix A Facility Oil Storage Table

40 CFR	Requirement	Location in SPCC Plan
112.8(d)(1)	Provide buried pipelines installed or replaced on or after August 16, 2002, with a protective wrapping and coating. Also: ▪ Provide cathodic protection or other corrosion protection in accordance with 40 CFR 280 or 281 ▪ If a section of buried line is exposed for any reason, you must carefully inspect it for deterioration. ▪ If corrosion damage is found, undertake additional examination and corrective action	N/A
112.8(d)(2)	Cap or blank-flange the terminal connection at the transfer point and mark it as to origin when piping is not in service or is in standby service for an extended time	N/A
112.8(d)(3)	Properly design pipe supports to minimize abrasion and corrosion and allow for expansion and contraction.	N/A
112.8(d)(4)	Regularly inspect all aboveground valves, piping, and appurtenances. Conduct integrity and leak testing of buried piping at the time of installation, modification, relocation, or replacement.	5.2
112.8(d)(5)	Warn all vehicles entering a facility to be sure that no vehicle will endanger aboveground piping or other oil transfer operations.	N/A
112.20(e)	Include a signed copy of the certification form, Certification of Applicability of the Substantial Harm Criteria, contained in Attachment C-II to Appendix C to 40 CFR Part 112.	Certifications and Approval

2. Facility Information

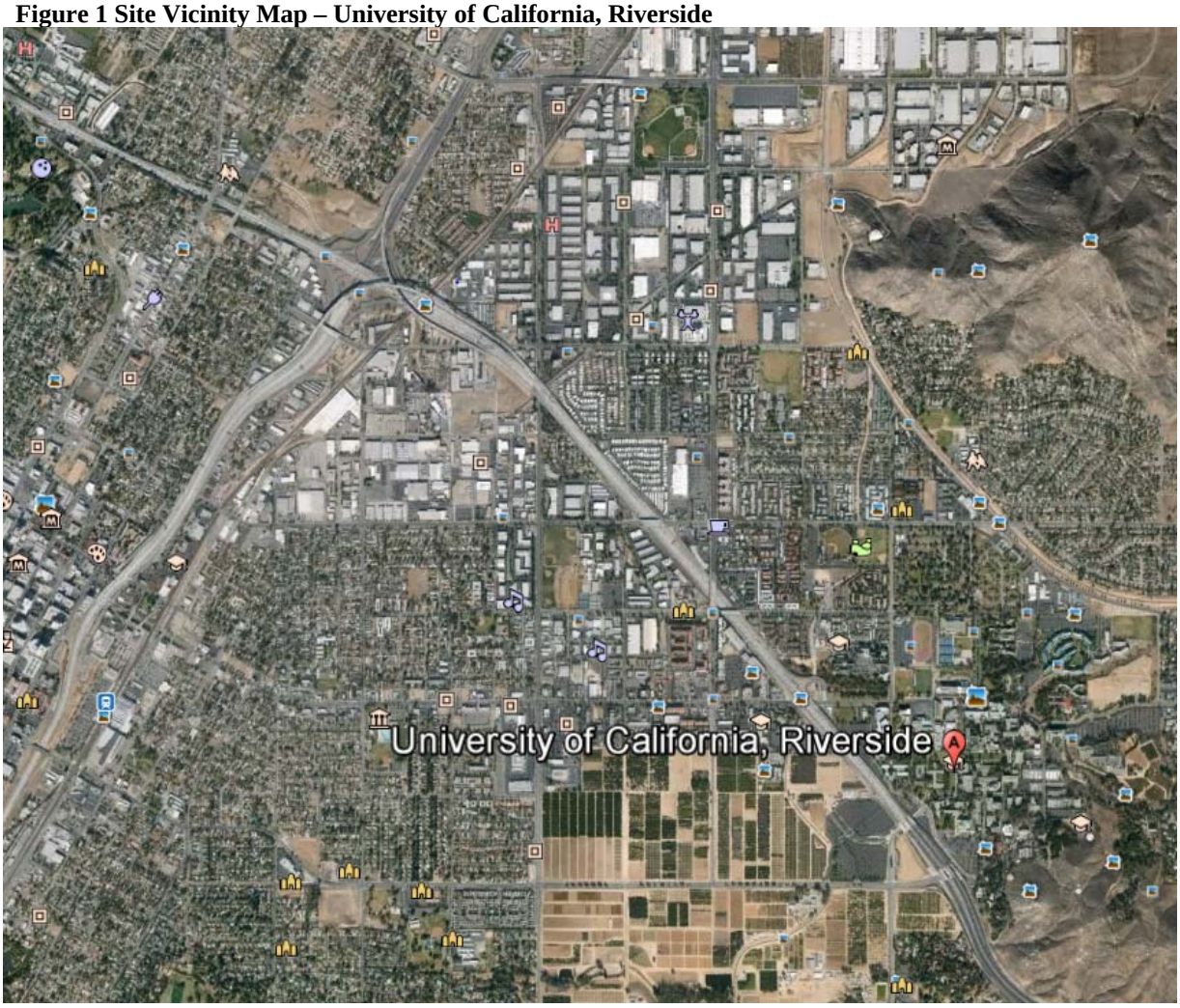
2.1 Facility Identification

Facility and Operator Name:	University of California, Riverside
Facility Address:	900 University Avenue, Riverside CA 92521
County:	Riverside
Telephone Number:	(951) 827-5528
Owner Name:	Regents of the University of California
Owner Address:	1111 Franklin Street, Oakland CA 94607
County:	Alameda
Telephone Number:	(510) 987-2000

2.2 Vicinity Map

UCR is located on a 1,160-acre campus in the City and County of Riverside, California. The campus is situated north of and runs adjacent to the State Route 60 and east of State Route 91 and Interstate 215 as shown on Figure 1, Site Vicinity Map:

Figure 1 Site Vicinity Map – University of California, Riverside



2.3 Facility Map

The facility map attached at Appendix A shows the layout of the campus, all aboveground bulk storage container locations and portable oil storage locations.

2.4 Facility Description

2.4.1 Physical Plant Operations

The Physical Plant Electric Shop is responsible for maintaining and operating thirty-nine emergency electrical generator engines located throughout campus. Each emergency generator engine installation includes a double wall diesel fuel bulk storage container ranging from 100- to 4,900-gallons capacity. The total amount of diesel fuel stored in these emergency generator engine fuel bulk storage containers is 24,699 gallons, 42% of the total oil storage for the entire campus. All the emergency generator engine fuel bulk storage containers are securely enclosed in generator housing which is kept locked at all times, and thirty-six of the thirty-eight equipment are also located within locked building enclosures or within securely fenced and locked areas. The emergency generator engines that are configured on trailers and stored at the Physical Plant Corporate Yard are secured in such an area. Also located at the Physical Plant Corporate Yard is the 300-gallon single wall mobile refueler equipped with a pump, dispenser nozzle and overflow prevention valve used for infrequent refueling of the emergency generator engine fuel bulk storage containers. The pump and dispenser nozzle on the mobile refueler is kept locked at all times when not in use, with key access restricted to Physical Plant Electric Shop personnel.

Physical Plant operations is responsible for the campus oil storage in oil-filled operational equipment. Oil-filled operational equipment consists of 153-gallons capacity lubricating oil in the largest emergency generator engine on campus, 98-gallons capacity lubricating oil in the second largest emergency generator engine, and a total of 18,071 gallons hydraulic oil contained in 95 elevators ranging from 89- to 476-gallons capacity. All campus elevators are included on an outside maintenance contract that includes monthly inspection.

2.4.2 Grounds Maintenance, Refuse & Recycling

Grounds Maintenance, Refuse & Recycling operations (Grounds) is included in the Physical Plant organization, however, it has its own building and shop areas located at the southern end of the campus. Grounds has its own vehicle fuel storage and dispensing equipment consisting of two 1,000-gallon aboveground bulk storage containers, one containing unleaded gasoline and one containing diesel. These aboveground bulk storage containers are each equipped with pumps, dispensers and nozzles for vehicle and equipment fueling on an impervious concrete pad adjacent to the bulk storage containers. A spill kit is maintained at the fuel storage and dispensing equipment. Small containers of maintenance lubricants, solvents, and greases are stored in a maintenance shop area that has impervious concrete secondary containment berms. The garage area contains a solvent cleaning tank and small containers of aerosols, lubricants, and other hazardous materials that are stored in flammable liquid safety storage cabinets.

2.4.3 Agricultural Operations

The campus includes an Agricultural Experiment Station to the southwest of the main campus. Agricultural Operations (Ag Ops) provides and maintains field research, greenhouses and other growing facilities for the UCR College of Natural and Agricultural Sciences and the

Agricultural Experiment Station. Ag Ops Headquarters includes a farm and vehicle equipment maintenance shop. Portable oil storage in the Ag Ops maintenance shop includes one 55-gallon drum each of vehicle maintenance oil, waste oil, and drained used oil filters. All 55-gallon drums are stored on secondary containment drum pallets. Also located in the Ag Ops maintenance shop are four 55-gallon single wall aboveground bulk storage containers, one each containing hydraulic oil, universal tractor fluid, motor oil, and automatic transmission fluid. Each of the single wall aboveground bulk storage containers are placed on secondary containment pallets. A fully stocked spill kit is located in close proximity to the portable oil storage and aboveground bulk storage containers, and drip pads are maintained in place to control minor drips and spills.

Fuel storage at Ag Ops includes one 5,000-gallon double wall aboveground bulk storage container containing diesel fuel located near the Verley Barn, and vehicle fuel storage and dispensing equipment near Ag Ops Headquarters consisting of one 1,500-gallon single compartment double wall aboveground bulk storage container containing gasoline, one 1,000-gallon single compartment double wall aboveground bulk storage container containing diesel fuel, and one 1,500-gallon dual compartment double wall aboveground bulk storage container containing 500 gallons gasoline and 1,000 gallons diesel fuel. The vehicle storage and dispensing equipment includes pumps, dispensers and nozzles on each of the aboveground bulk storage containers, and impervious concrete pad vehicle fueling areas adjacent to the aboveground bulk storage containers. Fully stocked spill kits are maintained at the Verley Barn diesel aboveground bulk storage container and at the fuel storage and dispensing equipment near Ag Ops Headquarters.

2.4.4 Housing, Dining and Residential Services

Dining Services operates several residential dining and retail restaurant facilities throughout campus. Three of these facilities have 325-gallon double wall aboveground bulk storage containers containing used vegetable cooking oil and/or animal fat. These aboveground bulk storage containers are located one each at Highlander Union Building, Aberdeen-Inverness Residential Restaurant, and Lothian Residential Restaurant. There is a smaller, 200-gallon double wall aboveground bulk storage container containing used cooking oil/fat located at Glen Mor. These used cooking oil/fat aboveground bulk storage containers are equipped with automatic pumping systems to eliminate open container transfer and prevent spills. Spill kits are provided for each of the used cooking oil/fat aboveground bulk storage containers. There are four 200-gallon portable single wall steel bins containing used vegetable cooking oil and/or animal fat located at three Dining Services restaurants; one of these portable bins is located at Highlander Union Building, two are located at The Barn, and one is located at the Alumni & Visitors Center. A smaller, 82-gallon portable single wall steel bin containing used cooking oil/fat is located at Glen Mor. Each of the portable used cooking oil/fat bins is placed on a secondary containment berm, and spill kits are maintained at each portable bin location.

Housing Operations maintains small facility maintenance shops at each of the residence halls and at Canyon Crest Family Student Housing that store small containers of maintenance lubricants, solvents and other maintenance-related liquid materials. Flammable liquids are stored within flammable liquid safety storage cabinets that have built in secondary containment.

2.4.5 Fleet Services

Fleet Services operates a light maintenance and repair shop for campus fleet vehicles at Corporate Yard Building C. One 240-gallon double wall aboveground bulk storage container containing motor oil, and one 120-gallon double wall aboveground bulk storage container containing automatic transmission fluid are located at the southern end of the maintenance shop. Both of these aboveground bulk storage containers reside in impervious concrete containment berms with bypass valves sealed closed. These bulk storage containers are piped to the maintenance bays. The lube bays contain small containers of grease, lube oils, antifreeze and a small solvent tank. The perimeter of the maintenance shop has impervious concrete berms around the entrance doors. These berms would contain any potential spill or leak that could happen in the maintenance shop. There is a 360-gallon double wall aboveground bulk storage container containing waste oil located at the west side of the maintenance shop, and another 360-gallon double wall aboveground bulk storage container containing waste oil located at the northern end of the shop. Both of these waste oil aboveground bulk storage containers are piped to the maintenance bays. The waste oil pumping system is completely shut off at the end of each shift to prevent any potential leaks and spills that may occur during off-hours. Also located at the northern end of the shop is an oil filter press with secondary containment provided. Fleet Services operates an SPCC-exempt 6,000-gallon underground storage tank (UST) located to the east of the Fleet Services office. This UST contains unleaded gasoline for refueling fleet vehicles by three dispensers at the nearby fueling island. Two spill kits are maintained at the fueling island, and the dispensers have containment boxes below them.

2.4.6 Highlander Union Building

The Highlander Union Building (HUB) leases retail restaurant space to Dining Services, and shares responsibility for implementation of the SPCC Plan at this location. Oil storage located at the HUB includes the following previously described under Physical Plant and Dining Services responsibilities: 320-gallon emergency generator engine diesel fuel aboveground bulk storage container, 325-gallon double wall aboveground bulk storage container containing used vegetable cooking oil and/or animal fat, and 200-gallon portable single wall steel bin containing used vegetable cooking oil and/or animal fat.

2.4.7 UCR Extension

UCR Extension (UNEX) is located at 1200 University Avenue, and shares responsibility for implementation of the SPCC Plan at this location. Oil storage located at UNEX consists of a 170-gallon emergency generator engine diesel fuel aboveground bulk storage container included in the oil storage responsibilities previously described under Physical Plant.

2.4.8 Environmental Health & Safety

Environmental Health & Safety (EH&S) is located at the southern end of campus at South Campus Drive and Citrus Drive. The UCR campus is a large quantity generator of hazardous waste; the EH&S building houses the 90-day storage area where campus hazardous waste is stored prior to shipment to treatment, storage and disposal facilities (TSDFs). Emergency

response and spill cleanup equipment and supplies are also stored in the EH&S building at the 90-day storage area.

2.5 Available Spill Cleanup Equipment and Supplies

EH&S has two vehicles used for hazardous materials emergency response, and maintains an inventory of emergency response and spill cleanup equipment and supplies. Equipment and supplies available include hazardous waste storage containers and packing supplies, absorbent socks and pads, bulk absorbent, appropriate personal protective equipment (PPE) and self-contained breathing apparatus. Lists of spill cleanup equipment, supplies, and contractors is attached at Appendix B. Safety Data Sheets (SDS) for chemicals used or stored at the facility are available for review in the EH&S office and at the facility and equipment maintenance shops using an online database.

Hazardous waste from spill cleanup activities will be disposed in accordance with applicable federal, state and local laws and regulations.

2.6 Spill History

There have been no spills of oil in harmful quantities at the UCR campus. In the event of a single discharge of greater than 1,000 gallons, or two discharges within 12 months greater than 42 gallons each, a report will be sent to the Regional Administrator within 60 days of the incident. This report will satisfy the requirements in 40 CFR 112.4(a)(1-9).

2.7 Facility Drainage

2.7.1 Surface Flow Drainage Pattern

Two major lines provide stormwater drainage on the UCR campus. The main line, known as the University Arroyo system, is located in the north-central part of the campus, and runs east to west between Valencia Hill Drive and Canyon Crest Drive. Lateral lines drain the north, south and east areas of the East Campus. A second major storm drain on campus is located in the southwest portion of the campus, east of Chicago Avenue and south of Martin Luther King Boulevard, known as the Box Springs Arroyo system. It handles runoff that accumulates from the foothills near the freeway and from the Ag Ops area south of Martin Luther King Boulevard.

The Ag Ops area consists of mainly unpaved permeable property, with no subsurface storm drains or catch basins. The Ag Ops Headquarters area, where vehicles and farm equipment is stored, is bordered to the east by the Gage Canal. The top walls of the Gage Canal are at a higher elevation than the maintenance shop area, therefore the possibility of spillage into the canal is unlikely. This area tends to surface flow onto the agricultural growing areas. The Verley Barn area, where the 5,000-gallon diesel aboveground bulk storage container is located, sits on a bluff. This area drains to the west and north, onto agricultural growing areas.

2.7.2 Receiving Water Body

The City of Riverside municipal storm drain system receives runoff from the UCR campus. The municipal storm drain system ultimately discharges to the Santa Ana River.

2.7.3 Rate of Spill and Worst Case Scenario

The worst case scenario would be a spill at Fleet Services where vehicle refueling is conducted from the SPCC-exempt UST at a gasoline dispensing island where there are storm drains located within 50 feet. The fueling island dispensers have containment boxes and a berm, but a 30- to 40-gallon spill could occur before the emergency shut-off is activated. Fuel could reach a storm drain and could ultimately reach the municipal storm drain system.

The other vehicle fueling areas at Ag Ops and Grounds are less vulnerable, as there are no storm drains nearby. The areas of the campus where all other aboveground bulk storage containers are located are also less vulnerable. In all but one case, there are no storm drains nearby and refueling of the emergency generator engine fuel aboveground bulk storage containers is very infrequent. If there were a spill, the released liquid would remain localized on adjacent paved or unpaved areas. A release from any of these aboveground bulk storage containers is not expected to exceed 5 gallons.

2.8 Oil Storage

UCR campus oil storage is listed on the Facility Oil Storage Table attached at Appendix C. Information on the Facility Oil Storage Table includes bulk storage container, portable storage container, or oil-filled operational equipment identification, contents, capacity, bulk storage container, portable container, or oil-filled operational equipment type, spill prevention device, secondary containment, containment volume, category, whether the storage is subject to precipitation, spill direction and rate, and inspection schedule.

2.8.1 Aboveground Bulk Storage Containers

UCR campus bulk oil storage is listed on the Facility Oil Storage Table at Appendix C, on pages with the heading “Bulk Storage.” Each aboveground bulk storage container is carefully monitored for any visual sign of leakage or failure. The aboveground bulk storage containers are typically located away from storm drains, and have emergency response and spill cleanup equipment readily available. The EH&S emergency hazardous materials response truck can be dispatched to respond to assist in the control and cleanup of a spill from any of these aboveground bulk storage containers.

2.8.1.1 Secondary Containment

The secondary containment method for each bulk storage container is listed on the Facility Oil Storage Table under Secondary Containment. Tanks indicated as Double Wall under Secondary Containment were constructed with an integral containment system. Tanks indicated as single wall have secondary containment only if it is indicated “Yes” under Secondary Containment

(i.e., in an impervious concrete containment berm). Single wall bulk storage containers located within the Ag Ops maintenance shop building are placed on secondary containment pallets and have spill control and cleanup equipment and supplies readily available in their vicinity.

2.8.1.2 Overfill Protection

While filling the gasoline or diesel fuel and lube oil bulk storage containers, and while pumping out waste oil bulk storage containers, facility or vendor personnel prevent overfill by continuously monitoring the transfer process. Warning signs or wheel chalks remind facility or vendor personnel to disconnect all hoses prior to driving off.

While fueling equipment or vehicles, the person performing the fueling is present and monitoring the operation at all times. Dispensing logs are maintained for the fuel aboveground bulk storage containers that serve the various departments.

2.8.1.3 Material Compatibility

All of the bulk storage containers and containment basins have been provided by the manufacturer or supplier on the condition that they are compatible for the storage of the intended petroleum product.

2.8.2 Portable Oil Storage

UCR campus portable oil storage is listed on the Facility Oil Storage Table at Appendix C on the page with the heading "Portable Storage." All portable containers are stored on secondary containment pallets or containment berms, and are inspected monthly.

2.8.3 Oil-filled Operational Equipment

UCR campus oil storage in oil-filled operational equipment is listed on the Facility Oil Storage Table at Appendix C on page with the heading "Oil-filled Operational Equipment." UCR campus oil-filled operational equipment consists of the two largest emergency generator engines containing lubricating oil, and 105 elevators containing hydraulic oil. All campus elevators are inspected monthly as part of a service and maintenance agreement with an elevator company.

2.8.4 Non-regulated Oil Storage

Smaller containers of oil and petroleum based products are stored throughout the campus. These products may be stored from time to time in the following general locations:

- Laboratories
- Corporate Yard Physical Plant Shops and Fleet Services Maintenance Shop
- Canyon Crest Family Student Housing Maintenance Shop
- Lothian Residence Hall Maintenance Shop and Residential Restaurant
- Aberdeen-Inverness Residence Hall Maintenance Shop and Residential Restaurant
- Grounds Landscape Maintenance, Refuse & Recycling facility

- Bannockburn Residence Hall Maintenance Shop

3. Transfer Operations

3.1 Bulk Storage Container Filling Procedures

Filling of fuel bulk storage containers is performed by an outside service provider. The filling procedures consist of the following; additional details on filling procedures for each fueling facilities department are attached at Appendix D:

- All fuel aboveground bulk storage container fill boxes are kept locked; facility personnel provide access and unlock the bulk storage container to be filled.
- Facility personnel remain present during the entire filling process.
- The delivery person initially gauges the aboveground bulk storage container to determine amount of fuel or oil to be delivered. The order is compared with the available aboveground bulk storage container capacity.
- Prior to filling, the delivery person inspects the lowermost drain and all outlets for leakage on the delivery tank truck.
- The delivery person makes a connection to electrically ground the delivery tank truck and system before off-loading begins.
- The delivery person continuously monitors the off-loading activity. Mechanical, direct vision gauges are installed on bulk storage containers to provide visual notification of the fill level and prevent overfilling.
- The delivery person inspects the lowermost drain and all outlets for leakage on the delivery tank truck, and adjusts to prevent discharge while in transit.
- A warning sign or wheel chalks remind the delivery person to disconnect and properly stow fuel lines prior to departure.

3.2 Product Dispensing Procedures

All new personnel are properly instructed on vehicle refueling procedures. Equipment and vehicles are refueled in the following manner; additional details on dispensing procedures for each fueling facilities department are attached at Appendix D:

- At Fleet Services, a Petro Vend card key is used to access and operate dispensers. Usage is recorded electronically.
- At Ag Ops, dispensers are unlocked only during operating hours. Usage is recorded on dispenser logs.
- At Grounds Landscape Maintenance Refuse & Recycling, access to locked dispensers must be obtained from authorized Grounds personnel. Usage is recorded on dispenser logs.
- The person fueling follows the instructions posted at the dispenser.
- The person fueling continuously monitors the entire fueling process.

- A warning sign or wheel chalks remind the driver to disconnect and properly stow fuel lines prior to departure.

3.3 Loading Dock Operations

When receiving or shipping an oil product or waste, the following procedures are followed:

- Oil products are only accepted and/or shipped in approved Department of Transportation (DOT) containers, and all persons preparing shipping containers have completed 49 CFR Part 172 Subpart H DOT hazardous materials training.
- Oil containers are stored away from the edge of the loading dock.
- To the extent possible, oil containers are kept sheltered from rain.
- Oil drums are only moved by using drum dollies or by forklift using a drum tote or other method of securing the drum during transport.
- When not in use, containers are kept securely closed.

4. Security

4.1 Facility Gates and Fences

The security measures for the facility perimeter include fences and gates as follows:

- Ag Ops: The aboveground bulk storage container west of the Verley Barn, aboveground bulk storage containers next to the Ag Ops Headquarters building in the vehicle and equipment maintenance shop, and aboveground bulk storage containers southeast of the Headquarters Building are all fully enclosed by locked, gated fencing topped with barbed wire that surrounds the entire property. Ag Ops employees unlock the main entrance gates upon arrival in the morning and lock them upon departure at the end of the business day. All other entrances are controlled by a remote keyless entry system.
- Physical Plant Corporate Yard: The aboveground bulk storage containers and UST within the Corporate Yard are secured by perimeter fencing and gates. The Corporate Yard gates are locked by Physical Plant employees during non-operational hours, typically Monday-Friday from approximately 6 p.m. to 7 a.m., and Saturday and Sunday.
- Grounds Maintenance, Refuse & Recycling and Dining Services areas: Fuel aboveground bulk storage containers at Grounds, and Dining Services' waste cooking oil/fat aboveground bulk storage containers are not located in fenced areas. These bulk storage containers are located in areas regularly patrolled by the UC Riverside Police Department.

4.2 Lighting

Lighting at the campus varies with several different styles of fixtures mounted on buildings adjacent to the aboveground bulk storage containers or on lighting posts. All aboveground bulk

storage containers have either high-pressure sodium or halogen lighting above or directed towards the bulk storage containers. The two aboveground bulk storage containers that reside next to the Ag Ops Headquarters Building have a motion sensor mounted above the bulk storage containers to provide lighting at any time during dark hours.

4.3 Bulk Storage Container Fill Box Locks and Dispensers

All fuel aboveground bulk storage container fill boxes are kept locked. Department operations personnel are required to unlock fuel aboveground bulk storage container fill boxes for vendor fuel deliveries. At Ag Ops fuel dispensers are unlocked only during operating hours, at Grounds Landscape Maintenance Refuse & Recycling, access to locked dispensers must be obtained from authorized Grounds personnel. Keys to fill boxes and dispensers are maintained in each department office. Fuel dispensing logs are kept for each fuel aboveground bulk storage container. Dispensing from the Corporate Yard Fleet Services UST is controlled by an electronic Petro Vend card key dispensing system. Each UCR fleet vehicle is issued its own card which must be used to operate a fuel dispenser. The Petro Vend system collects and maintains dispensing data logs for all fuel usage from the UST.

4.4 Protection from Vehicles

Crash posts and brick cinder blocks are installed around all the large fuel aboveground bulk storage containers except the Verley Barn fuel aboveground bulk storage. Fueling is performed away from this bulk storage container and there is limited vehicular access at this location. The motor oil and automatic transmission fluid bulk storage containers at the Physical Plant Corporate Yard are protected by impervious concrete secondary containment walls. The waste oil and filter condensing area is provided with secondary containment berms that provide some crash protection.

4.5 UC Riverside Police Department

The UC Riverside Police Department (UCPD) operates on campus 24 hours/day, 7 days/week. UCPD patrols the campus and off-site facilities at all times. Bulk storage containers have posted instructions in the event of a leak or spill to notify SPCC Designated Persons or UCPD at (951) 827-5222. UCPD has a copy of the SPCC Plan and all emergency procedures and emergency contact information.

5. Training, Inspections, and Records

5.1 Plant Personnel Training

5.1.1 Proper Bulk Storage Container Filling and Product Dispensing

All new oil-handling personnel receive instruction on proper bulk storage container filling and dispensing procedures. This includes instruction in the use of operation and maintenance equipment, pollution control laws and regulations, and the requirements of this SPCC Plan.

5.1.2 Training for Spill Prevention and Cleanup

Personnel who are involved with the fueling of maintenance vehicles, the dispensing and disposal of maintenance fluids, and the handling of waste cooking oil/fat are trained annually in the handling of small spills. Training includes instruction on the location and proper use of spill cleanup kits and on proper notification procedures. During this annual training, new or modified procedures or equipment, any equipment failures or malfunctions, or any discharge events are discussed. The goal is to prevent, quickly recognize, and mitigate future occurrences.

5.2 Inspections

UCR personnel from each operations department conduct SPCC Plan inspections at a monthly frequency, except for the waste oil bulk storage containers at Ag Ops and the waste oil bulk storage container systems at Fleet Services that are inspected at a weekly frequency. A sample SPCC Plan Inspection Checklist is attached at Appendix E. Any deficiencies observed during an inspection are promptly reported and resolved.

Items checked and recorded during both aboveground bulk storage container and portable container inspections include:

- Bulk storage container or portable container identification and description
- Bulk storage container or portable container location
- Contents
- Inventory (gallons)
- Secondary containment condition, evidence of leak or spill
- Verify that spill cleanup kits are located for easy access
- Verify that spill cleanup kits are completely stocked and in good condition
- Verify that UCPD area checks are being conducted regularly
- Verify all facility security and lighting systems are functioning properly
- Work order number for any item requiring attention
- Corrective actions and/or improvements

Additional items checked during inspection of the vehicle maintenance fluids and waste oil bulk storage container systems at Fleet Services include:

- Aboveground valves, piping, and appurtenances

5.2.1 Double Wall Bulk Storage Containment Inspections

In addition to the regular SPCC Plan inspection items above, double wall bulk storage container inspections include checking and recording the following items:

- Signs of leakage at shells and seams
- Signs of leakage at interstitial space

5.2.2 Portable Container Inspections

In addition to the regular SPCC Plan inspection items, portable container inspections include checking and recording the following:

- Container condition
- Evidence of leaks or spills

5.2.3 Mechanical and Electrical Inspections

UCR contracts regular mechanical and electrical inspections on the UST at Fleet Services. The following inspections and tests are performed on an annual basis:

- Positive pump shut-off
- Electrical grounding
- Tank pressure testing
- Proper mechanical operation

5.2.4 Annual SPCC Plan Compliance Inspection

The Designated Person is responsible for an annual SPCC Plan compliance inspection to ensure that all requirements identified with this plan are being fulfilled.

5.3 Record Retention

All records of bulk storage container inspections, bulk storage container information, facility diagrams, SPCC plan updates, and any other information that is a part of this plan are regularly updated and maintained in the EH&S office. All records must be maintained for a period of at least three years.

6. Conformance to Applicable Standards

This SPCC Plan is in conformance with the current SPCC rule at 40 CFR 112, including the November 2009 amendments. In complying with the applicable requirements of the SPCC rule, no deviations were employed or claimed in this SPCC Plan. This facility has met the general requirements for SPCC Plans listed in 40 CFR 112.7 and the specific discharge prevention and containment procedures listed in 40 CFR 112.8. Certification of Application of Substantial Harm Criteria has been completed, and is included in this SPCC Plan. A cross-reference of SPCC Plan requirements is provided at Section 1.8 to reference the location in this SPCC Plan of each requirement.

In addition to conformance with the federal SPCC rules, this facility is in conformance with the following California State requirements:

Aboveground Petroleum Storage Act (APSA), California Health and Safety Code Division 20, Chapter 6.67. A bulk storage container facility is subject to APSA requirements if the facility is

subject to the oil pollution prevention regulations specified in the Code of Federal Regulations, Chapter I, Subchapter D, Part 112, or the bulk storage container facility has a storage capacity of 1,320 gallons or more of petroleum.

Hazardous Materials Release Response Plans and Inventory, Business and Area Plans, California Health and Safety Code Division 20, Chapter 6.95, Article 1; Hazardous Material Release Reporting, Inventory, and Response Plans, California Code of Regulations, Title 19, Division 2, Chapter 4. HSC §25505 and 19 CCR §2731 require that business plans contain emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material. HSC §25510(a) and 19 CCR §2703(a) require, upon discovery, immediate reporting to the Certified Unified Program Agency (CUPA) and California Governor's Office of Emergency Services (Cal OES) of any release or threatened release of a hazardous material if there is a reasonable belief that the release or threatened release poses a significant present or potential hazard to human health and safety, property, or the environment.

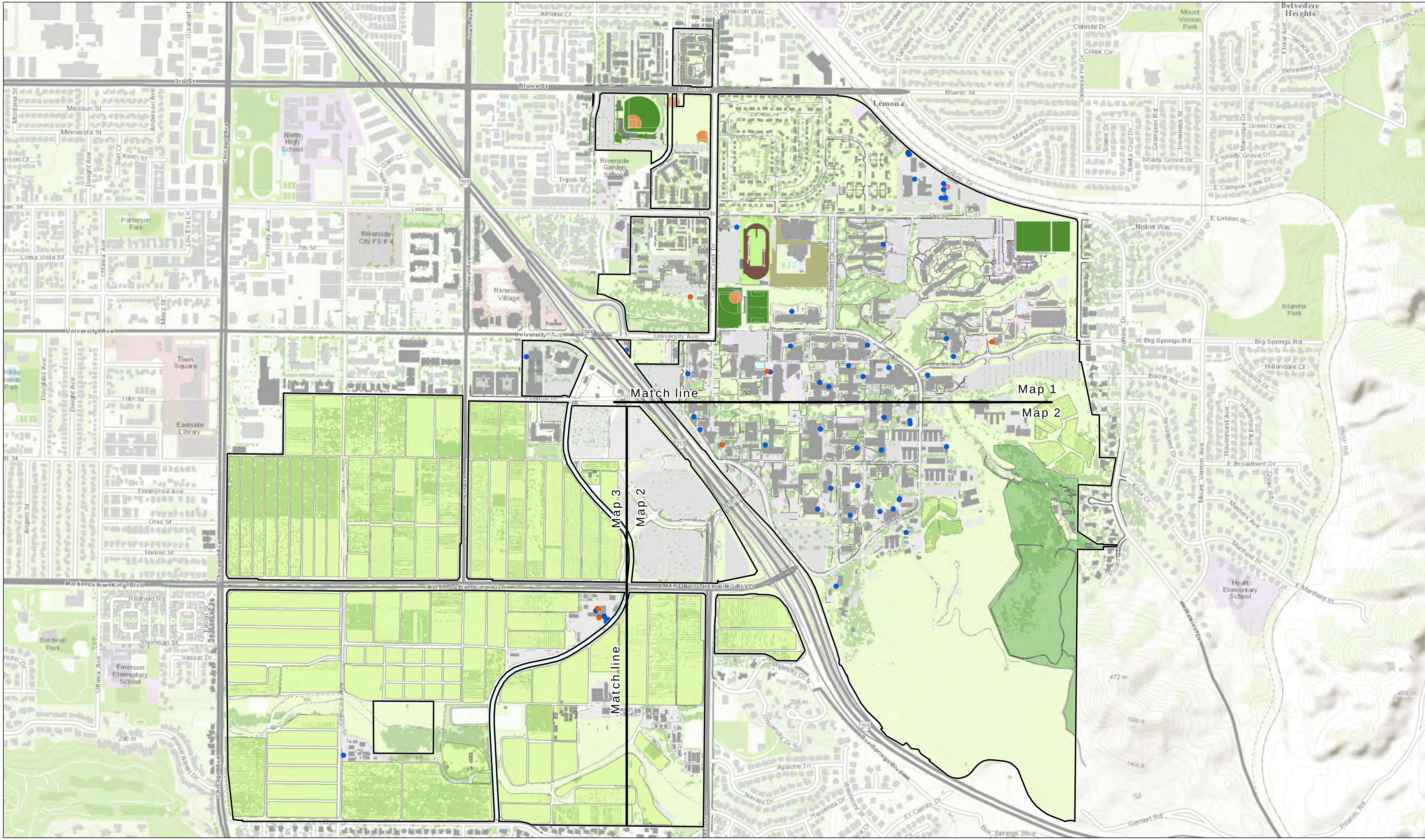
California Water Code Section 13271. §13271(a)(1) requires that any person who causes or permits any hazardous substance or sewage to be discharged in or on any waters of the state, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the state, shall, as soon as (A) that person has knowledge of the discharge; (B) notification is possible; and (C) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Governor's Office of Emergency Services (Cal OES) of the discharge.

California Water Code Section 13272. §13272(a) requires that any person who, without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the state, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the state, shall, as soon as (1) that person has knowledge of the discharge, (2) notification is possible, and (3) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Governor's Office of Emergency Services (Cal OES) of the discharge.

Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit, California State Water Resources Control Board Order No. 2013-0001-DWQ effective July 1, 2013. The University of California, Riverside campus is a designated Non-Traditional Small MS4 Permittee subject to Phase II Small MS4 General Permit requirements other than Section E., and specifically Section F., Non-Traditional Small MS4 Permittee Provisions.

Appendix A

Facility Map



800 400 0 800 Feet

- Bulk Storage Tanks
- Portable Storage Tanks
- Exempt UST

Map Key

University of California Riverside
SPCC Plan Facility Diagram

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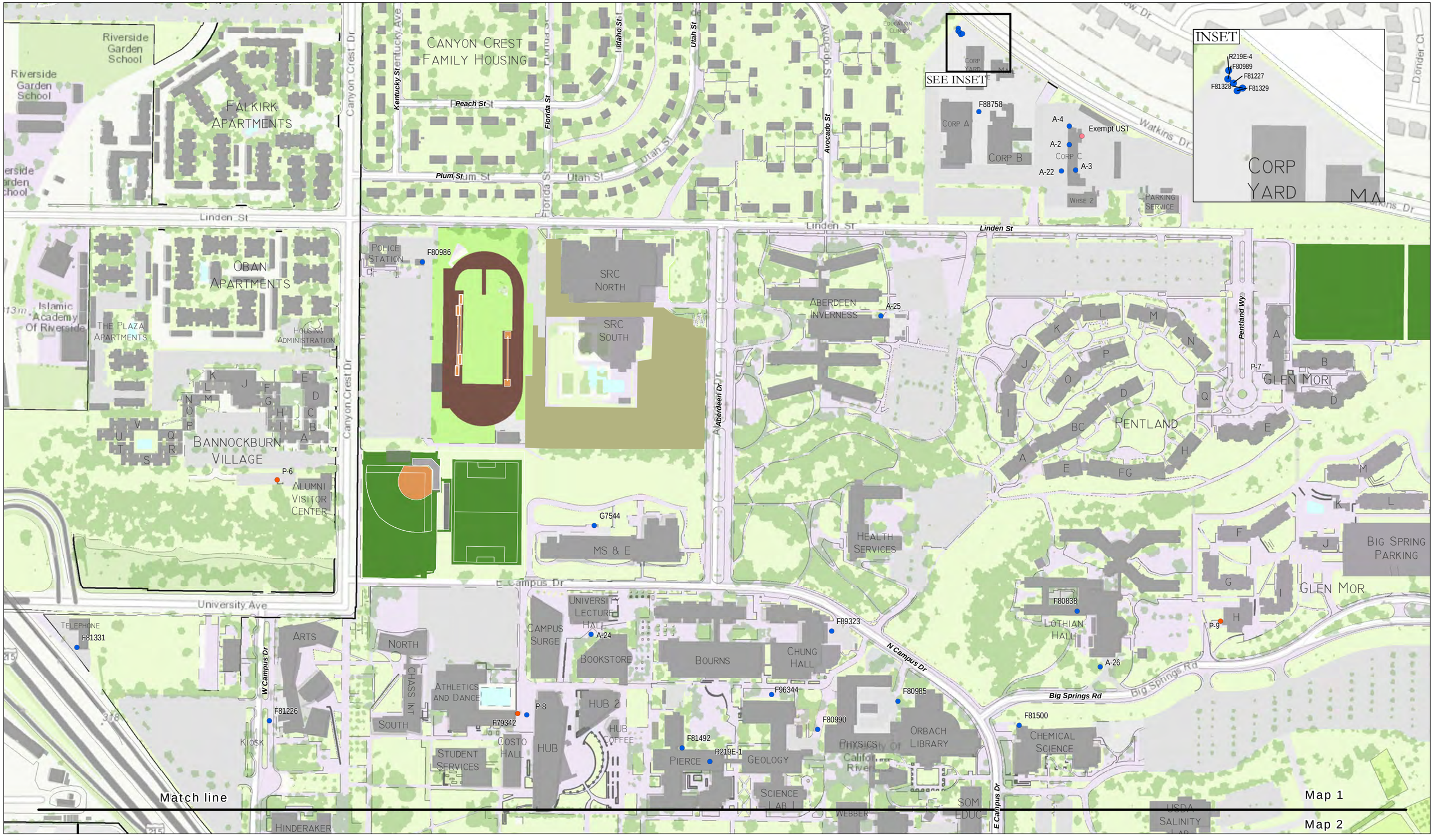

300 150 0 300 Feet

- Bulk Storage Tanks
- Portable Storage Tanks
- Exempt UST

Map 1 of 3

University of California Riverside
SPCC Plan Facility Diagram

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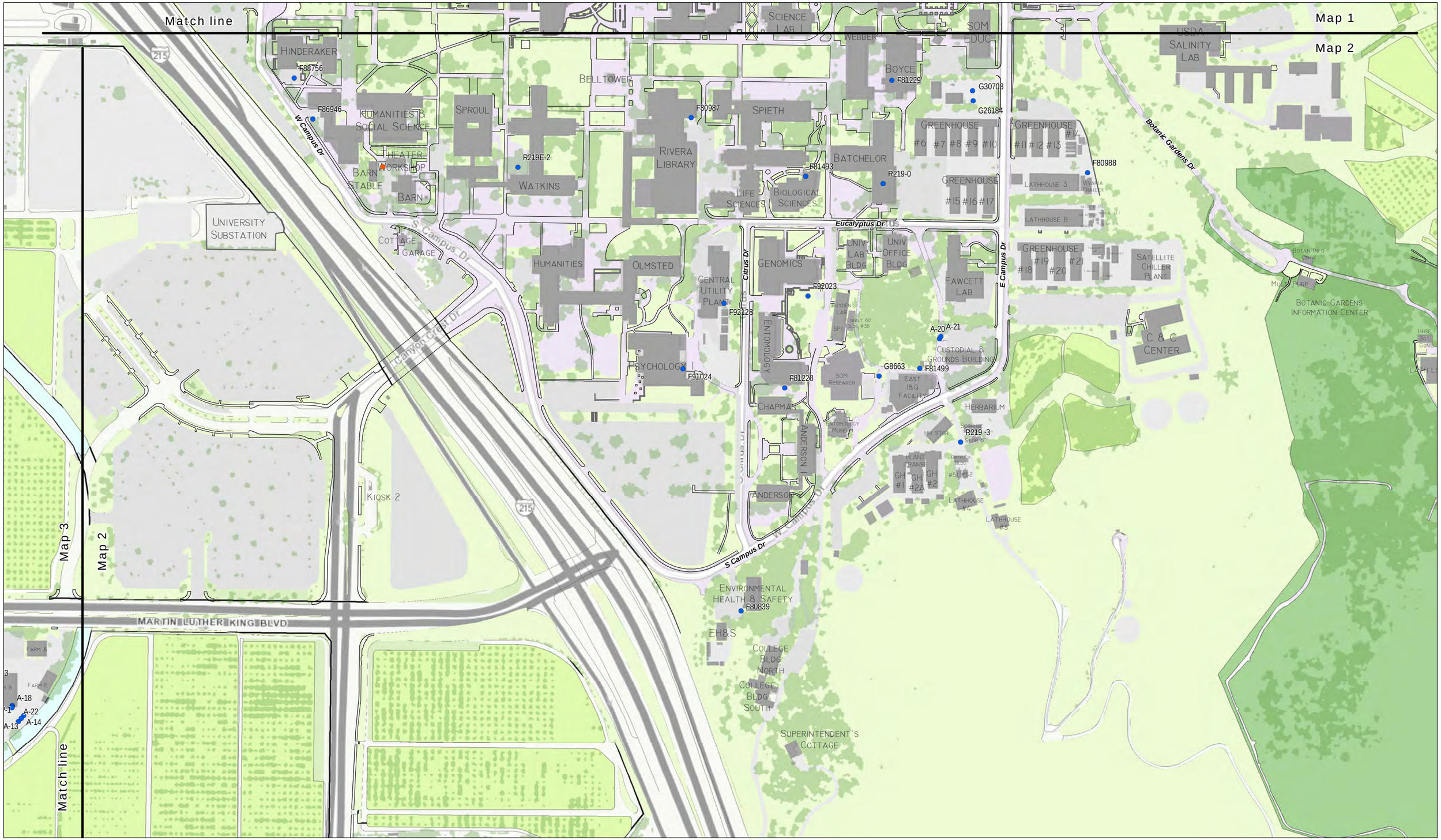
Table 1, Map 1

University of California, Riverside SPCC Plan

TANK ID	Capacity	Contents	Location	Description
A-25	325	Used Veg Cooking Oil, Animal Fat	A&I Residental resturant	Insulated AST
P-6	200	Used Veg Cooking Oil, Animal Fat	Alumni and Visitor center	used cooking oil, grease bin
F89323	700	Diesel	Bournes Hall	EMERG ICE 900 BHP
F81500	170	Diesel	Chemical Science Roof	EMERG ICE 1801 BHP
Exempt UST	6000	Gasoline	Corp Yard, Fleet Services	
A-23	360	Waste Oil	Corporation Yard, Fleet Servic	Double wall AST
A-3	120	Transmission Fluid	Corporation Yard, fleet servic	Double wall AST
A-4	360	Waste Oil	Corporation Yard, Fleet Servic	Double Wall AST
A-2	240	Motor Oil	Corporation Yard,fleet service	Double Wall AST
F96344	900	Diesel	Geology	EMERG ICE 635 BHP
A-24	325	Other	Highlander Union bldg	Insulated AST
F79342	320	Diesel	Highlander Union bldg	EMERG ICE 250 BHP
P-8	200	Other	Highlander Union bldg	used cooking oil, grease bin
F80838	273	Diesel	Lothian Hall	EMERG ICE 166 BHP
A-26	325	Other	Lothian Residental Restaraunt	Insulated AST
P-9	200	Used Veg Cooking Oil, Animal Fat	Market at Glen Mor Bldg H	used cooking oil grease bin
G7544	435	Diesel	Material Science and Engineeri	EMERG ICE 757 BHP
F80989	730	Diesel	Physical Plant , Butler west	EMERG ICE, 326 BHP
R219E-4	600	Diesel	Physical Plant , Butler West	mobile refueling trailer
F81227	73	Diesel	Physical Plant, Butler West	EMERG ICE, 326 BHP
F81328	280	Diesel	Physical Plant, Butler West	EMERG ICE, 382 BHP
F81329	280	Diesel	Physical Plant, Butler West	EMERG ICE, 382 BHP
F88758	800	Diesel	Physical Plant, Store house	EMERG ICE 449 BHP
F80990	445	Diesel	Physics	EMERG ICE 685 BHP
F81492	170	Diesel	Pierce Hall	EMERG ICE 190 BHB
R219E-1	110	Diesel	Pierce Hall Roof	EMERG ICE >50 BHP
F80985	500	Diesel	Science Library	EmERG ICE 643 BHP
G30708	4900	Diesel	SOM Education Trailers	EMERGE ICE, 3634 BHP
F81331	280	Diesel	Telecommunications , Universit	EMERG ICE 383 BHP
F84993	170	Diesel	UCR Extension	EMERG ICE, 99BHP
F80986	500	Diesel	UCR Police Station	EMERG ICE 192 BHP



300 150 0 300 Feet

- Bulk Storage Tanks
- Portable Storage Tanks
- Exempt UST

Map 2 of 3

University of California Riverside
SPCC Plan Facility Diagram

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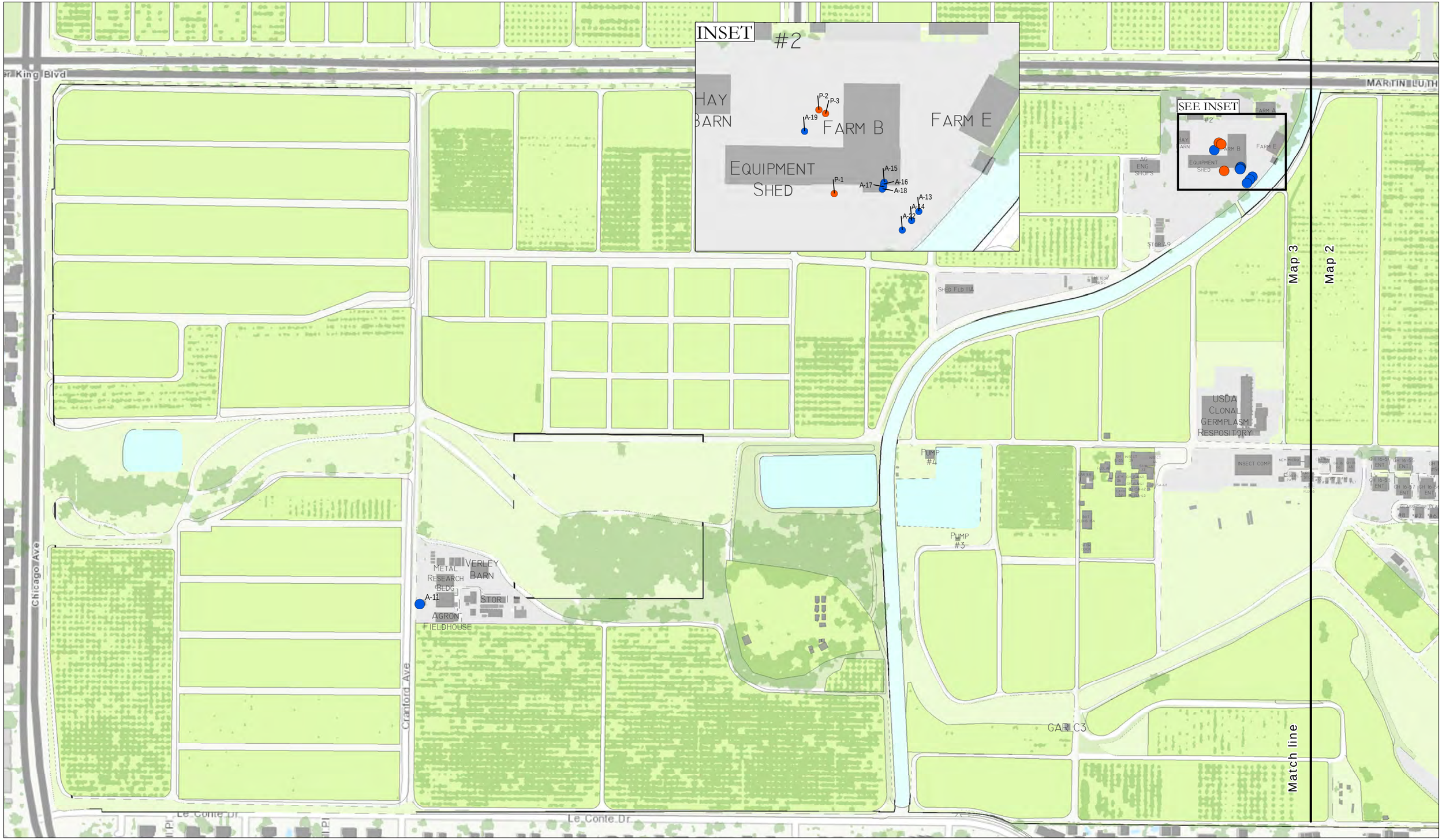
Table 2, Map 2

University of California, Riverside SPCC Plan

TANK ID	Capacity	Contents	Location	Description
P-4	200	Used Veg Cooking Oil, Animal Fat	Barn	used cooking oil, grease tank
R219-0	110	Diesel	Batchlor Roof	EmERG ICE <50 BHP
F81493	660	Diesel	Biological Sciences Roof	EMERG ICE, 685 BHP
F81229	170	Diesel	Boyce Hall Roof	EMERG ICE 260 BHP
G26184	750	Diesel	Campus data center	EMERG ICE 752 BHP
F80839	114	Diesel	EH&S South	Emerg ICE, 66BHP
F81228	660	Diesel	Entomology 185	EMERG ICE, 748 BHP
F81226	170	Diesel	Fine Arts	EMERG ICE, 166 BHP
F91023	500	Diesel	Genomics	EMERG ICE, 900 BHP
A-20	100	Gasoline	Grounds Maintainace	Double wall AST hoover vault
A-21	1000	Diesel	Grounds Maintenance	Double wall AST, ADV pacific
F88756	800	Diesel	Hinderucker Hall	EMERG ICE 449 BHP
F86946	100	Diesel	Humanities and Social Sciences	EMERG ICE 263BHP
F81499	1200	Diesel	Insectary and Quarantine	EMERG ICE 1502 BHP
F91024	900	Diesel	Psychology	EMERG ICE 635 BHP
R219 -3	110	Diesel	Radio tower/ stillhouse	EMERG ICE <50 BHP
F80987	192	Diesel	Rivera Library	EMERG ICE, 255 BHP
G8663	1400	Diesel	School of Medicine Research	EMERG ICE 1193 BHP
G30708	4900	Diesel	SOM Education Trailers	EMERGE ICE, 3634 BHP
F92128	1150	Diesel	Steam plant	EMERG ICE, 756 BHP
F80988	114	Diesel	Vivarium trailer	EmERG ICE 102 BHP
R219E-2	110	Diesel	Watkins Basement	EMERG ICE <50 BHP



300 150 0 300 Feet

- Bulk Storage Tanks
- Portable Storage Tanks
- Exempt UST

Map 3 of 3

University of California Riverside
SPCC Plan Facility Diagram

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Table 3, Map 3

University of California, Riverside SPCC Plan

TANK ID	Capacity	Contents	Location	Description
A-11	5000	Diesel	AG OPS /Verley Barn	Double wall AST
A-13	1500	Gasoline	AG OPS	Double wall AST
A-14	1500	Diesel	AG OPS	Double wall AST
A-15	55	Hydraulic oil	AG OPS Shop/Farm B	Double Wall AST
A-16	55	Universal tractor fluid	AG OPS Shop/ Farm B	Double Wall AST
A-17	55	Motor Oil	AG OPS SHOP/Farm B	Double Wall AST
A-18	55	Automatic transmission Fluid	AG OPS SHOP /FARM B	Double Wall AST
A-19	360	Waste Oil	AG OPS SHOP/FARM B	Double wall AST
A-22	1500	Gasoline and Diesel	AG OPS	Double wall dual AST
P-1	55	Engine oil	AG OPS SHOP /FARM B	55 Gallon Drum
P-2	55	Waste Oil	AG OPS SHOP/FARM B	55 Gallon Drum
P-3	55	Drained used oil filters	AG OPS SHOP / FARM B	55 gallon drum

Appendix B

Spill Cleanup Equipment, Supplies, and Contractors

Emergency Response Inventory EH&S Warehouse UCR Campus		
Location	Description	Quantity In Container
A1 S1-1	Steel Container (empty)	1
A1 S1-2	Gallon Safety Can	1
A1 S1-3	Tubing	1
A1 S1-4	Tubing	1
A1 S1-5	Saftety Vests and Baggies	5 Vests, 100+ Baggies
A1 S2-1	Yellow Coveralls w/o Hood	8
A1 S2-2	Medium White/Gray Coveralls w/o Hood	10
A1 S2-3	XL White Hooded Coveralls	12
A1 S2-4	XL White Hooded Coveralls	16
A1 S2-5	2XL White Hooded Coveralls	10
A1 S3-1	Cleaning Supplies - 2 Dust Pans, 3 Brushes, 2 Pairs Gardening Gloves, Putty Knife	10
A1 S3-2	2XL Yellow Coveralls w/ & w/o Hood	15
A1 S3-3	Plastic Bags, Baggies, Trash Bags	100
A1 S3-4	Gloves (Latex, Nitrile, Neoprene, etc)	100+
A1 S3-5	3 Bags of Shoe Covers, 1 lrg bag of Booties	100+
A1 S3-6	1 lrg Bag of Booties	100+
A1 S4-1	Hardhats	9
A1 S4-2	Rubber Gloves	25
A1 S4-3	3XL White Coveralls	12
A1 S4-4	2XL Yellow Coveralls	12
A1 S4-5	XL Yellow Coveralls	12
A1 S4-6	XL Yellow Coveralls w/ Hood	5
A1 S4-7	Tyvek Coat w/o Hood	12
A1 S4-8	XL Tyvek Coats w/o Hood	12
A2 S1-1	Igloo Cooler	1
A2 S1-2	Encapsulating Suit	1
A2 S1-3	Rubber Gloves	25
A2 S1-4	XL Full Encapsulating Suit Level B	1
A2 S1-5	XL Full Encapsulating Suit Level B	1
A2 S1-6	XL Full Encapsulating Suit Level B	1
A2 S1-7	XL Full Encapsulating Suit Level B	1
A2 S1-8	XL Full Encapsulating Suit Level B	1
A2 S1-9	15"x150" Chemical Absorbant Roll	1
A2 S2-1	Bio Spill Kit #1	1
A2 S2-2	Bio Spill Kit #2	1

Emergency Response Inventory EH&S Warehouse UCR Campus		
Location	Description	Quantity In Container
A2 S2-3	Bio Spill Kit #3	1
A2 S2-4	Bio Spill Kit #4	1
A2 S2-5	Bio Spill Kit #5	1
A2 S2-6	Bio Spill Kit #6	1
A2 S2-7	Super Dry Powder	5 Gallons
A2 S2-8	Part of Air Tank, and L-Tube	1
A2 S2-9	Safety Vests, Ampliphone	15
A2 S2-10	Shoe Covers	100
A2 S2-11	Shoe Covers	200
A2 S2-12	Shoe Covers	200
A2 S2-13	Shoe Covers	200
A2 S2-14	Shoe Covers	200
A2 S2-15	Shoe Covers	200
A2 S2.5-1	Knee Pads	2
A2 S2.5-2	Extension Cord, Lamp Extension Cords	5
A2 S3-1	L Tyvek Coveralls Yellow	25
A2 S3-2	Empty Air Pack Container	1
A2 S3-3	Empty Air Pack Container	1
A2 S3-3	Empty Air Pack Container	1
A2 S3-4	Empty Air Pack Container	1
A2 S3-5	Air Pack	1
A2 S3-6	Air Pack	1
A2 S3-7	Air Pack	1
A2 S3-8	Empty Air Pack Container	1
A2 S3-9	Wind Sock	1
A2 S3-10	Air Tank	1
A2 S3-11	Air Tank	1
A2 S3-12	Air Tank	1
A2 S4-1	Helmet Coveralls, Gloves etc	1
A2 S4-2	Boots Size/quantity 9/1 7/1 6/1 3/1	4
A2 S4-3	Boots XL: 1 Large:3 Medium:1 Small: 5	10
A2 S4-4	Boots	5
A2 S4-5	Shoe and Sleeve Covers	100
A2 S4-6	M Tyvek Coveralls White	25
A2 S4-7	Extension Cords (50ft), Electrical Plugs, Lamp Cords, Generator Adapter,	5
A2 S4-8	Caution/Radiation Tape	10
A2 S4-9	Spill Fix Pools	2

Emergency Response Inventory EH&S Warehouse UCR Campus		
Location	**Description**	**Quantity In Container**
A2 S4-10	Protective Gear	1
A2 S4-11	Protective Gear	1
A2 S4-12	Spill Booms	25
A2 S4-13	Saftey Vests, Blue Jumpsuit, HPS Light	3
Area 2 Cabinet RC4A/RC4B	Red Biohazardous Waste Plastic Bags	
Area 2 Cabinet RC4A/RC4B	Medical Waste Sharps Containers	
Area 2 Cabinet RC4A/RC4B	Biohazard Labels	
Area 3 Aisle	Mercury Vacuum Cleaner	1
Area 3 Aisle	Flashlight (on mercury vacuum cleaner)	1
Area 3 Drawer A	Mercury Scoop and Collection Cards	
Area 3 Cabinet A/B	Bleach	
Area 6 Cabinet CC1A/CC1B	Supplies Gloves, Tape, Safety Glasses	
Area 7	Bulk absorbents	
Area 7	Plastic buckets with lids	
Chem Room Desk	Hazardous Waste Labels	
Spill Clean Up Kit	Sodium bicarbonate	2
Spill Clean Up Kit	Silver Shield Gloves	1 package
Spill Clean Up Kit	Caution Tape	1
Spill Clean Up Kit	Ultra Seal Storm Drain Cover	1
Spill Clean Up Kit	Sand	1
Spill Clean Up Kit	Bulk Absorbent/Neutralizer for Chemical Spills	1
Spill Clean Up Kit	Bulk Absorbent for Petroleum Spills	1
	Various size, type DOT hazardous waste shipping containers	

UCR EH&S Hazardous Waste Operations

Box Truck Spill Cleanup Equipment and Supplies Inventory

Large Box Driver Side:

1. Spill Socks
2. Absorbent Pads
3. 2 XL Tyveks & 2 Large Neoprene Chemical Resistant Gloves
4. Absorbent
5. Sodium Bicarbonate
6. Yellow Caution Tape
7. Shovel
8. Dust Pan

Small Box Driver Side:

1. Tool Box
    a. Hammer
    b. Razor Blade
    c. Measuring tape
    d. Gas cap
    e. Ratchets
    f. Wrenches
    g. Screw Drivers
2. ½" Torque Wrench

Large Box Passenger Side:

1. ERT Bags
2. Hazardous Waste Labels
3. Knee Pads
4. Containment Pool
5. Large and X Large Nitrile Gloves

Small Box Passenger Side:

1. Safety Glasses
2. Liners (30x42)
3. Booties
4. Bucket
    a. 2 XL Tyveks
    b. 3 Rolls Duct Tape

Emergency Response Contractors
UCR Campus

Clean Harbors Environmental Services
Field Services Office
7979 Palm Avenue, Unit E
Highland, CA 92346
Emergency Phone: (800) 645-8265
Office Phone: (909) 742-7477

PSC Environmental Services/Stericycle Environmental Solutions
2490 W. Pomona Blvd.
Pomona, CA 91768
Emergency Phone: (877) 577-2669
Office Phone: (909) 598-4449

Appendix C

Facility Oil Storage Table

Bulk Storage ID No.	Content	Capacity (Gal)	Bulk Storage Location	Year Installed	Tank Type	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume (Gal)	Spill Direction and Rate (GPM)	Category[1]	Inspection Schedules
A-2	Motor oil	240	Corporation Yard, Fleet Services		STEEL	Sight Glass or Gauges	Yes	Double Wall	533	E @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-3	Automatic transmission fluid	120	Corporation Yard, Fleet Services		STEEL	Sight Glass or Gauges	Yes	Double Wall	533	E @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-4	Waste oil	360	Corporation Yard, Fleet Services		STEEL	Overflow Prevention Valve	Yes	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-11	Diesel	5000	Ag Ops, Verley Barn		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-23	Waste oil	360	Corporation Yard, Fleet Services		STEEL	Overflow Prevention Valve	Yes	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-13 N27044	Gasoline	1500	Ag Ops		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	SW @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-14	Diesel	1500	Ag Ops		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	SW @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-22 N27044	Gasoline and diesel	1500	Ag Ops		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	SW @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-15	Hydraulic oil	55	Ag Ops Shop/Farm B		STEEL	Sight Glass or Gauges	Yes	Yes	60	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-16	Universal tractor fluid	55	Ag Ops Shop/Farm B		STEEL	Sight Glass or Gauges	Yes	Yes	60	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-17	Motor oil	55	Ag Ops Shop/Farm B		STEEL	Sight Glass or Gauges	Yes	Yes	60	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-18	Automatic transmission fluid	55	Ag Ops Shop/Farm B		STEEL	Sight Glass or Gauges	Yes	Yes	60	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-19	Waste oil	360	Ag Ops Shop/Farm B		STEEL	Overflow Prevention Valve	Yes	Double Wall	-	N @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-20 N10602	Gasoline	1000	Grounds Maintenance		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	N @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-21	Diesel	1000	Grounds Maintenance		STEEL	Sight Glass or Gauges	Yes	Double Wall	-	N @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-24	Used Vegetable Cooking Oil, Animal Fat	325	HUB Activities Center		STEEL	NA	Yes	Double Wall	-	NW @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-25	Used Vegetable Cooking Oil, Animal Fat	325	Aberdeen Inverness Residential Restaurant		STEEL	NA	Yes	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-26	Used Vegetable Cooking Oil, Animal Fat	325	Lothian Residential Restaurant		STEEL	NA	Yes	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
A-27	Used Vegetable Cooking Oil, Animal Fat	200	Market at Glen Mor	2014	STEEL	NA	Yes	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F79342	Diesel (Emergency ICE)	320	HIGHLANDER UNION BLDG	2005	STEEL	Overflow Prevention Valve	NA	Double Wall	-	N @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80839	Diesel (Emergency ICE)	114	EH&S, SOUTH	1990	STEEL	Overflow Prevention Valve	NA	Double Wall	-	NW @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80985	Diesel (Emergency ICE)	500	SCIENCE LIBRARY, WEST	1998	STEEL	Overflow Prevention Valve	NA	Double Wall	-	SW @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector

Bulk Storage ID No.	Content	Capacity (Gal)	Bulk Storage Location	Year Installed	Tank Type	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume (Gal)	Spill Direction and Rate (GPM)	Category[1]	Inspection Schedules
F80986	Diesel (Emergency ICE)	500	UCR POLICE STATION, EAST	2001	STEEL	Overflow Prevention Valve	NA	Double Wall	-	NW @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80987	Diesel (Emergency ICE)	192	RIVERA LIBRARY	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	SE @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80988	Diesel (Emergency ICE)	114	VIVARIUM TRAILER	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80989	Diesel (Emergency ICE)	730	PHYSICAL PLANT, BUTLER WEST	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F80990	Diesel (Emergency ICE)	445	PHYSICS, INTERIOR ROOM	2001	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F81226	Diesel (Emergency ICE)	170	FINE ARTS, ENCLOSURE E-103	1998	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F81227	Diesel (Emergency ICE)	730	PHYSICAL PLANT, BUTLER WEST	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81228	Diesel (Emergency ICE)	660	ENTOMOLOGY, 185	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F81229	Diesel (Emergency ICE)	170	BOYCE HALL, ROOF	2001	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S into roof drain @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81328	Diesel (Emergency ICE)	280	PHYSICAL PLANT, BUTLER WEST	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81329	Diesel (Emergency ICE)	280	PHYSICAL PLANT, BUTLER WEST	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81331	Diesel (Emergency ICE)	280	TELECOMMUNICATIONS, UNIVERSITY AVENUE	1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81492	Diesel (Emergency ICE)	170	PIERCE HALL, BASEMENT	2001	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F81493	Diesel (Emergency ICE)	660	BIOLOGICAL SCIENCES, ROOF	2004	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W into roof drain @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81499	Diesel (Emergency ICE)	1200	INSECTARY AND QUARANTINE	2000	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Into surrounding soil @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F81500	Diesel (Emergency ICE)	2000	CHEMICAL SCIENCES, 133B	2003	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F84993	Diesel (Emergency ICE)	170	UCR EXTENSION, WEST	2006	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F86947	Diesel (Emergency ICE)	100	NEW HUMANITIES & SOCIAL SCIENCES BLDG	1995	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F88756	Diesel (Emergency ICE)	800	HINDERAKER HALL, WEST	2007	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
F88758	Diesel (Emergency ICE)	800	PHYSICAL PLANT, STOREHOUSE	2007	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F89323	Diesel (Emergency ICE)	700	BOURNS HALL, NO EAST	1993	STEEL	Overflow Prevention Valve	NA	Double Wall	479	N @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
F91023	Diesel (Emergency ICE)	500	GENOMICS, EAST	2007	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
F91024	Diesel (Emergency ICE)	900	PSYCHOLOGY	2007	STEEL	Overflow Prevention Valve	NA	Double Wall	-	N @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector

Bulk Storage ID No.	Content	Capacity (Gal)	Bulk Storage Location	Year Installed	Tank Type	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume (Gal)	Spill Direction and Rate (GPM)	Category[1]	Inspection Schedules
F92128	Diesel (Emergency ICE)	1150	STEAM PLANT	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
F96344	Diesel (Emergency ICE)	900	GEOLOGY, NORTH	2008	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Into surrounding soil @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G7544	Diesel (Emergency ICE)	435	MATERIALS SCIENCE & ENGINEERING	2009	STEEL	Overflow Prevention Valve	NA	Double Wall	-	W @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G8663	Diesel (Emergency ICE)	1400	SCHOOL OF MEDICINE RESEARCH	2012	STEEL	Overflow Prevention Valve	NA	Double Wall	-	SW @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G24858	Diesel (Emergency ICE)	767	GLEN MOR 2	2013	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G24859	Diesel (Emergency ICE)	472	GLEN MOR 2	2013	STEEL	Overflow Prevention Valve	NA	Double Wall	-	S @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G26184	Diesel (Emergency ICE)	750	CAMPUS DATA CENTER	2013	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Into surrounding soil @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
G30708	Diesel (Emergency ICE)	4900	SOUTH OF SCHOOL OF MEDICINE-EDUCATION	2013	STEEL	Overflow Prevention Valve	NA	Double Wall	-	N @ 100 GPM	Category 1	Periodic Conducted by Owner's Inspector
Rule 219-0	Diesel (Emergency ICE)	110	BATCHELOR ROOF	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	N into Roof Drain @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
Rule 219-1	Diesel (Emergency ICE)	110	PIERCE ROOF	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	N into Roof Drain @ 1 GPM	Category 1	Periodic Conducted by Owner's Inspector
Rule 219-2	Diesel (Emergency ICE)	110	WATKINS BASEMENT	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	Contained within building	Category 1	Periodic Conducted by Owner's Inspector
Rule 219-3	Diesel (Emergency ICE)	110	RADIO TOWER/STILL HOUSE	pre 1999	STEEL	Overflow Prevention Valve	NA	Double Wall	-	NW @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
Rule 219-4	Diesel (Emergency ICE Mobile Refueler)	300	PHYSICAL PLANT, BUTLER WEST		STEEL	Overflow Prevention Valve	Yes	No	-	E @ 5 GPM	Category 1	Periodic Conducted by Owner's Inspector
Total		39334										
	Bulk Storage	39334										
	Portable Storage	847										
	Oil-filled Operational Equipment	18322										
	Total Facility Oil Storage	58503										

[1]Category 1 AST with spill control, and with Continuous Release Detection Monitoring (CRDM); Category 2 AST with spill control, and without Continuous Release Detection Monitoring (CRDM); Category 3 AST without spill control, and without Continuous Release Detection Monitoring (CRDM)

Container No.	Content	Max. Capacity (Gal)	Avg. Capacity (Gal)	Container Location	Container Type	Spill Kit	Secondary Containment	Containment Volume (Gal)	Subject to Precipitation	Spill Direction and Rate (GPM)	Category	Inspection Schedules
P-1	Engine oil	55	55	Ag Ops Shop/Farm B	Plastic Drum	Yes	Yes	30	No	N @ 55 GPM	Category 1	Periodic Conducted by Owner's Inspector
P-2	Waste oil	55	55	Ag Ops Shop/Farm B	Steel Drum	Yes	Yes	30	No	N @ 55 GPM	Category 1	Periodic Conducted by Owner's Inspector
P-3	Drained used oil filters	55	55	Ag Ops Shop/Farm B	Steel Drum	Yes	Yes	60	No	N @ 55 GPM	Category 1	Periodic Conducted by Owner's Inspector
P-4	Used vegetable cooking oil, animal fat	200	200	The Barn	Steel bin	Yes	Yes	-	Yes	NW into soil @ 5 GPM	Category 2	Periodic Conducted by Owner's Inspector
P-6	Used vegetable cooking oil, animal fat	200	200	Alumni & Visitors Center	Steel bin	Yes	Yes	-	Yes	W @ 5 GPM	Category 2	Periodic Conducted by Owner's Inspector
P-8	Used vegetable cooking oil, animal fat	200	200	Highlander Union Building loading dock	Steel bin	Yes	Yes	-	Yes	N @ 5 GPM	Category 2	Periodic Conducted by Owner's Inspector
P-9	Used vegetable cooking oil, animal fat	82	82	Market at Glen Mor	Steel bin	Yes	Yes	-	Yes	W @ 5 GPM	Category 2	Periodic Conducted by Owner's Inspector
Total		847	847									

EQ. NO.	Equipment	Content	Capacity (Gal)	Equipment Location	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume	Subject to Precipitation	Spill Direction and Rate (GPM)
F81500	IC ENGINE, CATERPILLAR, MODEL 3512 DITA (1250 KW), SERIAL NO. CMJ00545, DIESEL FUELED, 12 CYLINDERS, 1801 BHP, EMERGENCY ELECTRICAL GENERATOR LOCATED AT NEW PHYSICAL SCIENCES BUILDING.	Lubricating oil	98	CHEMICAL SCIENCES, 133B	NA	NA	No	-	No	Contained within building
G30708	INTERNAL COMBUSTION ENGINE, FIXED SITE, CATERPILLAR, MODEL NO. 3516C-HD, SERIAL NO DD500442, DIESEL, 4-CYCLES, 16 CYLINDERS, TURBOCHARGED/ AFTERCOOLED, RATED AT 3634 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR	Lubricating oil	153	SOUTH OF SCHOOL OF MEDICINE-EDUCATION	NA	NA	No	-	No	N @ 5 GPM
105961	Anderson Hall Elevator	Hydraulic Oil	110	Ground Floor, NW of Hatch	NA	NA	No	-	No	Contained within building
105962	Anderson Hall Elevator	Hydraulic Oil	110	Basement, SW of Hatch	NA	NA	No	-	No	Contained within building
128609	Arts Building 1 Elevator	Hydraulic Oil	225	Room 90	NA	NA	No	-	No	Contained within building
128610	Arts Building 2 Elevator	Hydraulic Oil	225	Room 90	NA	NA	No	-	No	Contained within building
128628	Arts Building 5 Elevator	Hydraulic Oil	225	LL Room 12	NA	NA	No	-	No	Contained within building
157050	Culver Center Elevator	Hydraulic Oil	180	3834 Main St Riverside	NA	NA	No	-	No	Contained within building
139835	Biological Sciences Building Elevator	Hydraulic Oil	476		NA	NA	No	-	No	Contained within building
44544	Batchelor Hall #2 Elevator	Hydraulic Oil	161	Basement Room 1100B	NA	NA	No	-	No	Contained within building
106147	Bourns Hall A Elevator	Hydraulic Oil	136	A Wing, SW of hatch	NA	NA	No	-	No	Contained within building
106016	Bourns Hall B Elevator	Hydraulic Oil	136	B Wing, Room B175B	NA	NA	No	-	No	Contained within building
138873	Winston Chung Hall (formerly Engineering) Elevator	Hydraulic Oil	356	Room 131	NA	NA	No	-	No	Contained within building
138874	Winston Chung Hall (formerly Engineering) Elevator	Hydraulic Oil	281	Loading Dock, Rm. 123	NA	NA	No	-	No	Contained within building
138875	Winston Chung Hall (formerly Engineering) Elevator	Hydraulic Oil	356	Loading Dock, Rm. 123	NA	NA	No	-	No	Contained within building
19165	California Museum of Photography Elevator	Hydraulic Oil	233	Basement, Men's Rm	NA	NA	No	-	No	Contained within building
95842	California Museum of Photography Elevator	Hydraulic Oil	225	Basement N of hatch	NA	NA	No	-	No	Contained within building
146787	CHASS Interdisciplinary #1 Elevator	Hydraulic Oil	211		NA	NA	No	-	No	Contained within building
146788	CHASS Interdisciplinary #2 Elevator	Hydraulic Oil	211		NA	NA	No	-	No	Contained within building
146789	CHASS Interdisciplinary #3 Elevator	Hydraulic Oil	211		NA	NA	No	-	No	Contained within building
106436	College Building South Elevator	Hydraulic Oil	119	Ground floor, E of hatch	NA	NA	No	-	No	Contained within building
128967	Entomology Bldg 1 Elevator	Hydraulic Oil	186	Mech Rm. 183	NA	NA	No	-	No	Contained within building
128968	Entomology Bldg 2 Elevator	Hydraulic Oil	186	Basement Rm. 153	NA	NA	No	-	No	Contained within building
105960	Entomology Research Museum Elevator	Hydraulic Oil	147	Room 106	NA	NA	No	-	No	Contained within building

EQ. NO.	Equipment	Content	Capacity (Gal)	Equipment Location	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume	Subject to Precipitation	Spill Direction and Rate (GPM)
44598	Geology Building Elevator	Hydraulic Oil	187	Service Tunnel W of hatch	NA	NA	No	-	No	Contained within building
101510	Highlander Hall Elevator	Hydraulic Oil	89	Ground Floor S of hatch	NA	NA	No	-	No	Contained within building
106451	Humanities & Social Sciences #1 Elevator	Hydraulic Oil	119	floor, SE of hatch	NA	NA	No	-	No	Contained within building
108023	Humanities & Social Sciences #2 Elevator	Hydraulic Oil	119	1st floor, East of hatch	NA	NA	No	-	No	Contained within building
108024	Humanities & Social Sciences #3 Elevator	Hydraulic Oil	119	1st floor, South of Hatch	NA	NA	No	-	No	Contained within building
131730	Humanities Theater 1 Elevator	Hydraulic Oil	171	Mech Rm. 124	NA	NA	No	-	No	Contained within building
131731	Humanities Theater 2 Elevator	Hydraulic Oil	171	Basement left of elev.	NA	NA	No	-	No	Contained within building
128588	East Insectary & Quarantine Elevator	Hydraulic Oil	206	Room 103	NA	NA	No	-	No	Contained within building
37411	Olmsted Hall #1 Elevator	Hydraulic Oil	217	Basement, N of hatch	NA	NA	No	-	No	Contained within building
37410	Olmsted Hall #2 Elevator	Hydraulic Oil	217	Room A118	NA	NA	No	-	No	Contained within building
131986	Chemical Sciences 1 (formerly Physical Sciences) Elevator	Hydraulic Oil	213	Room 114	NA	NA	No	-	No	Contained within building
131988	Chemical Sciences 2 (formerly Physical Sciences) Elevator	Hydraulic Oil	213	Room 154	NA	NA	No	-	No	Contained within building
41452	Physics Building Elevator	Hydraulic Oil	91	Mech. Room NW of hatch	NA	NA	No	-	No	Contained within building
43140	Pierce Hall 1 Elevator	Hydraulic Oil	148	Basement, N of hatch	NA	NA	No	-	No	Contained within building
118243	Pierce Hall 2 Elevator	Hydraulic Oil	182	Outside behind elev	NA	NA	No	-	No	Contained within building
28876	Rivera Library #1 Elevator	Hydraulic Oil	190	Vault SW of hatch	NA	NA	No	-	No	Contained within building
38499	Rivera Library #2 Elevator	Hydraulic Oil	190	Basement SE of hatch	NA	NA	No	-	No	Contained within building
13037	Science Library #1 Elevator	Hydraulic Oil	284	Ground floor N of hatch	NA	NA	No	-	No	Contained within building
113938	Science Library #2 Elevator	Hydraulic Oil	284	Ground floor N of hatch	NA	NA	No	-	No	Contained within building
113980	Science Library (freight) Elevator	Hydraulic Oil	253	Basement west of hatch	NA	NA	No	-	No	Contained within building
33041	Spieth Hall #1 Elevator	Hydraulic Oil	194	Basement, East of hatch	NA	NA	No	-	No	Contained within building
45887	Spieth Hall #2 Elevator	Hydraulic Oil	268	Basement, South of hatch	NA	NA	No	-	No	Contained within building
45882	Spieth Hall #3 Elevator	Hydraulic Oil	268	Basement North of hatch	NA	NA	No	-	No	Contained within building
45884	Spieth Hall #4 Elevator	Hydraulic Oil	268	Room 447	NA	NA	No	-	No	Contained within building
45037	Sproul Hall Freight Elevator	Hydraulic Oil	211	Basement south of hatch	NA	NA	No	-	No	Contained within building
128632	Surge Building Elevator	Hydraulic Oil	170	Across from elev.	NA	NA	No	-	No	Contained within building
106085	University Laboratory Building Elevator	Hydraulic Oil	122	Ground Floor Nrth of Hatch	NA	NA	No	-	No	Contained within building

EQ. NO.	Equipment	Content	Capacity (Gal)	Equipment Location	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume	Subject to Precipitation	Spill Direction and Rate (GPM)
101713	University Office Building Elevator	Hydraulic Oil	122	Ground Floor East of Hatch	NA	NA	No	-	No	Contained within building
28874	Watkins Hall Elevator	Hydraulic Oil	180	Room 1237	NA	NA	No	-	No	Contained within building
28877	Webber Hall Elevator	Hydraulic Oil	119	Sub-Basement W of hatch	NA	NA	No	-	No	Contained within building
150350	Student Academic Support Services Elevator	Hydraulic Oil	162	Room 1201-A	NA	NA	No	-	No	Contained within building
150312	Genomics #1 Elevator	Hydraulic Oil	242	Room 1208-A	NA	NA	No	-	No	Contained within building
150313	Genomics #2 Elevator	Hydraulic Oil	220	Room 1208-A	NA	NA	No	-	No	Contained within building
150249	Psychology Building Elevator	Hydraulic Oil	202	Room 1206 outside	NA	NA	No	-	No	Contained within building
150248	Psychology Building RmCR1499a Elevator	Hydraulic Oil	202	Vivaria Machine Rm 1327	NA	NA	No	-	No	Contained within building
48080	Rivera Library 5 Elevator	Hydraulic Oil	188	Roof	NA	NA	No	-	No	Contained within building
157062	Materials Science & Engineering #1 Elevator	Hydraulic Oil	238	Central Lobby/2nd flr behind	NA	NA	No	-	No	Contained within building
157063	Materials Science & Engineering #2 Elevator	Hydraulic Oil	238	West Wing (left of hatch)	NA	NA	No	-	No	Contained within building
157064	Materials Science & Engineering #3 Elevator	Hydraulic Oil	186	North middle of East (behind)	NA	NA	No	-	No	Contained within building
143030	School of Medicine-Research Elevator	Hydraulic Oil	180	West Lobby/Penthouse 4th flr	NA	NA	No	-	No	Contained within building
33406	Aberdeen-Inverness A Wing Elevator	Hydraulic Oil	150	Room A6	NA	NA	No	-	No	Contained within building
33407	Aberdeen-Inverness B Wing Elevator	Hydraulic Oil	150	Room 86	NA	NA	No	-	No	Contained within building
33408	Aberdeen-Inverness D Wing Elevator	Hydraulic Oil	150	Room 06	NA	NA	No	-	No	Contained within building
33409	Aberdeen-Inverness E Wing Elevator	Hydraulic Oil	150	Room £6	NA	NA	No	-	No	Contained within building
87410	Lothian Residence Hall A Wing Elevator	Hydraulic Oil	200	Room Mi-A	NA	NA	No	-	No	Contained within building
87315	Lothian Residence Hall B Wing Elevator	Hydraulic Oil	200	Room #81-A	NA	NA	No	-	No	Contained within building
97712	Lothian Residence Hall EWing Elevator	Hydraulic Oil	213	North of hatch	NA	NA	No	-	No	Contained within building
97711	Lothian Residence Hall F Wing Elevator	Hydraulic Oil	129	North of Ewing 21ev hatch	NA	NA	No	-	No	Contained within building
139679	Lothian Residence Hall Freight Elevator	Hydraulic Oil	178	South of hatch	NA	NA	No	-	No	Contained within building
131197	Pentland Hills Residence Hall #1 Elevator	Hydraulic Oil	162	North of hatch, room A109	NA	NA	No	-	No	Contained within building
131200	Pentland Hills Residence Hall #2 Elevator	Hydraulic Oil	162	North of hatch, room C-111	NA	NA	No	-	No	Contained within building
131199	Pentland Hills Residence Hall #3 Elevator	Hydraulic Oil	162	South of hatch, room E117	NA	NA	No	-	No	Contained within building
131198	Pentland Hills Residence Hall #4 Elevator	Hydraulic Oil	162	South of hatch, room G113	NA	NA	No	-	No	Contained within building

EQ. NO.	Equipment	Content	Capacity (Gal)	Equipment Location	Spill Prevention Device	Spill Kit	Secondary Containment	Containment Volume	Subject to Precipitation	Spill Direction and Rate (GPM)
118300	Pentland Hills Residence Hall Dorm 1 Elevator	Hydraulic Oil	155	By Elev.	NA	NA	No	-	No	Contained within building
119066	Pentland Hills Residence Hall Dorm 2 Elevator	Hydraulic Oil	155	By Elev.	NA	NA	No	-	No	Contained within building
119067	Pentland Hills Residence Hall Dorm 3 Elevator	Hydraulic Oil	155	By Elev.	NA	NA	No	-	No	Contained within building
119068	Pentland Hills Residence Hall Dorm 4 Elevator	Hydraulic Oil	155	By Elev.	NA	NA	No	-	No	Contained within building
47375	University Extension #1 Elevator	Hydraulic Oil	170	Lobby ol Main Building	NA	NA	No	-	No	Contained within building
47475	University Extension #2 Elevator	Hydraulic Oil	170	Mech. Room W Pkg Lot	NA	NA	No	-	No	Contained within building
79438	University Extension #3 Elevator	Hydraulic Oil	170	Laundry Room	NA	NA	No	-	No	Contained within building
106077	Student Recreation Center Elevator	Hydraulic Oil	180	North of hatch on ist floor	NA	NA	No	-	No	Contained within building
105511	Costo Hall Elevator	Hydraulic Oil	134	Room 114	NA	NA	No	-	No	Contained within building
103145	Campus Store Elevator	Hydraulic Oil	110	Basement Room A	NA	NA	No	-	No	Contained within building
146565	Highlander Union Building Food Court Elevator	Hydraulic Oil	208	Room 146	NA	NA	No	-	No	Contained within building
146566	Highlander Union Building Food Court Elevator	Hydraulic Oil	208	Room 146	NA	NA	No	-	No	Contained within building
146567	Highlander Union Building Kitchen Freight Elevator	Hydraulic Oil	208	Room 146	NA	NA	No	-	No	Contained within building
146596	Highlander Union Building "The Drum" Elevator	Hydraulic Oil	208	Room 192 A	NA	NA	No	-	No	Contained within building
146588	Alumni & Visitors Center 3701 Canyon Crest Dr. Elevator	Hydraulic Oil	212	Behind Elevator	NA	NA	No	-	No	Contained within building
146584	Glen Mor Apartments A Wing Elevator	Hydraulic Oil	193		NA	NA	No	-	No	Contained within building
146583	Glen Mor Apartments B Wing Elevator	Hydraulic Oil	193		NA	NA	No	-	No	Contained within building
146585	Glen Mor Apartments C Wing Elevator	Hydraulic Oil	193		NA	NA	No	-	No	Contained within building
146581	Glen Mor Apartments D Wing Elevator	Hydraulic Oil	193		NA	NA	No	-	No	Contained within building
146580	Glen Mor Apartments E Wing Elevator	Hydraulic Oil	184		NA	NA	No	-	No	Contained within building
Total			18322							

Appendix D

Fuel Bulk Storage Filling and Dispensing Procedures

Procedures for Fuel Bulk Storage Filling and Dispensing

Agricultural Operations

Filling

1. The Administrative Office initiates all orders of fuels. Other oil products will be ordered through the Office/Shop depending on the dollar amount of the purchase.
    a. The Purchasing Department places orders for fuels and other items that are over $500 with a pre-selected vendor.
2. Vendors check in with the Administrative Office/Shop; the Supervisor or his/her representative unlocks bulk storage container(s) for filling.
3. The fuel delivery truck fills directly into the gasoline or diesel tank. Bulk storage containers are equipped with overflow prevention devices, however, the fuel delivery truck driver must continuously monitor the filling process at the bulk storage container.
    a. The delivery person initially gauges the aboveground bulk storage container to determine amount of fuel or oil to be delivered. The order is compared with the available aboveground bulk storage container capacity.
    b. Prior to filling, the delivery person inspects the lowermost drain and all outlets for leakage on the delivery tank truck.
    c. The delivery person makes a connection to electrically ground the delivery tank truck and system before off-loading begins.
    d. The delivery person continuously monitors the off-loading activity. Mechanical, direct vision gauges are installed on bulk storage containers to provide visual notification of the fill level and prevent overfilling.
    e. The delivery person inspects the lowermost drain and all outlets for leakage on the delivery tank truck, and adjusts to prevent discharge while in transit.
    f. A warning sign or wheel chalks remind the delivery person to disconnect and properly stow fuel lines prior to departure.
4. The Supervisor or his/her representative relocks the bulk storage container(s) after filling is complete.
5. The Administrative Office signs for the amount of fuel(s) received. The Administrative Office maintains receipts.

Dispensing

1. In the morning the Supervisor or his/her representative unlocks the tank(s).

2. Ag Ops personnel dispense fuel from aboveground bulk storage containers into vehicles by:
    a. Pulling up adjacent to the selected fuel aboveground bulk storage container.
    b. Dispensing fuel directly into the vehicle tank by first placing the dispensing nozzle into the vehicle fuel tank, then switching dispenser on and activating nozzle.
    c. Continuously monitoring the entire fueling process until complete.
    d. Completing a fueling sheet, including the vehicle number and the number of gallons dispensed.
3. In the evening the Supervisor or his/her representative locks the bulk storage container(s) and gives the completed fueling sheet(s) to the Administrative Office. The Administrative staff uses the fueling sheet data to account for usage of fuel and submittal of reorders for fuel.

Inspections

Ag Ops staff visually checks the bulk storage containers and fueling area periodically throughout the day for any signs of leaks or spills.

Spill Cleanup

Incidental spills in fueling area are cleaned up using pads or absorbent. Small spills in the vehicle and equipment shop maintenance work area (e.g., lumps of grease, oil, etc.) are contained using absorbent available in the shop. Spill cleanup debris is collected and submitted for pickup and disposal through EH&S.

Grounds Landscape Maintenance Refuse & Recycling (Grounds)

Filling

1. The Mechanic initiates all orders of fuels, oils, and other products.
2. The Purchasing Agents at Physical Plant place the orders for fuels, oils, and other lubricants with a pre-selected vendor.
3. Vendors deliver the materials at a pre-arranged time and location.
4. The Mechanic receives gasoline, diesel fuel, and lubricants.
5. The Mechanic unlocks the fuel aboveground bulk storage container fill box or material storage area involved.
6. The delivery truck driver either unloads the drums or attaches the fill line to the bulk storage container. Bulk storage containers are equipped with overflow prevention devices, however, the fuel delivery truck driver must continuously monitor the filling process at the bulk storage container.
    a. The delivery person initially gauges the aboveground bulk storage container to determine amount of fuel or oil to be delivered. The order is compared with the available aboveground bulk storage container capacity.

b. Prior to filling, the delivery person inspects the lowermost drain and all outlets for leakage on the delivery tank truck.
c. The delivery person makes a connection to electrically ground the delivery tank truck and system before off-loading begins.
d. The delivery person continuously monitors the off-loading activity. Mechanical, direct vision gauges are installed on bulk storage containers to provide visual notification of the fill level and prevent overfilling.
e. The delivery inspects the lowermost drain and all outlets for leakage on the delivery tank truck, and adjusts to prevent discharge while in transit.
f. A warning sign or wheel chalks remind the delivery person to disconnect and properly stow fuel lines prior to departure.

6. The Mechanic checks the receipt for any errors or omissions prior to signing for the amount of material(s) received.
7. The Mechanic relocks the aboveground bulk storage container fill box or material storage area.
8. The receipts are turned in to the Grounds Day Crew Coordinator's office.

Dispensing

1. Grounds personnel dispense fuel from aboveground bulk storage containers into vehicles by:
   a. Pulling up adjacent to the selected fuel aboveground bulk storage container.
   b. Dispensing directly into the vehicle tank by first placing the dispensing nozzle into the vehicle fuel tank, then switching dispenser on and activating nozzle.
   c. Continuously monitoring the entire fueling process until complete.
   d. Signing in on the fueling sheet posted to the right of the Mechanical Shop door, including their name and the number of gallons dispensed.
2. Identical procedures are followed for fuel or diesel dispensed from Grounds fuel aboveground bulk storage containers by non-Grounds Physical Plant personnel. In addition, the job number they are working on is included on the fueling sign-in sheet.
3. Vehicles belonging to the UCR fleet are fueled at Fleet Services following the Petro Vend card key procedure. All fuel credit cards are kept at Fleet Services for leased vehicles.
4. Grounds personnel dispense fuel from the gasoline aboveground bulk storage container into small gas cans by:
   a. Placing the gas can on the ground adjacent to the gasoline aboveground bulk storage container.
   b. Dispensing directly into the gas can by first placing the dispensing nozzle into the gas can, then switching dispenser on and activating nozzle.
   c. Continuously monitoring the entire filing process until complete.
   d. Signing in on the fueling sheet posted to the right of the Mechanical Shop door, including

their name and the number of gallons dispensed.

Inspections

1. The Mechanic visually checks the bulk storage containers and fueling area for any signs of leaks or spills every morning.
2. The Mechanic tracks and reports the number of gallons used and rectifies any discrepancies in the reporting (balances purchase amounts versus usage recorded).

Spill Cleanup

Small spills, lumps of grease, oil, etc., are immediately contained using bulk absorbent stored in the shop area. Spills and cleanup are reported to the Mechanic. Spill cleanup debris are collected and placed in proper waste containers by the person(s) who caused the spill, labeled appropriately and submitted for disposal through EH&S.

Physical Plant Electrical Shop – Emergency Generator Engines

Filling the Mobile Refueler Bulk Storage Container

1. The Physical Plant Maintenance Electrician initiates all orders for diesel fuel, oils, and other lubricants from pre-selected vendors.
2. Vendors deliver the diesel fuel or other materials at a pre-arranged time and location.
3. The Maintenance Electrician meets the vendor and unlocks the 300-gallon diesel mobile refueler bulk storage container.
4. The fuel delivery truck driver attaches the fill line to the mobile refueler storage tank. Delivery truck hoses are equipped with anti-spill devices, however, the fuel delivery truck driver must continuously monitor the filling process at the mobile refueler bulk storage container.
5. After filling, the Maintenance Electrician relocks the mobile refueler bulk storage container and signs for the fuel received.
6. The Physical Plan Purchasing Agent maintains fuel receipts.

Dispensing from the Mobile Refueler Bulk Storage Container and Filling Emergency Generator Engine Fuel Bulk Storage Containers

1. When refueling of emergency generator engines are necessary, the Maintenance Electrician dispenses fuel from the mobile refueler into the emergency generator engine fuel bulk storage containers by:
    a. Positioning the mobile refueler as close as possible to the emergency generator engine bulk storage container needing refueling.
    b. Unlocking the mobile refueler dispenser.

c. Placing the hose nozzle into the emergency generator engine fuel bulk storage container and activating the nozzle.

d. The nozzle is equipped with an anti-spill device and emergency generator engine fuel bulk storage containers are equipped with overfill prevention valves, however, the Maintenance Electrician must continuously monitor the entire filling process at the bulk storage container to prevent overfilling and discharge.

e. Replacing the hose nozzle and relocking the dispenser when the fill is complete.

f. Securing the generator fill cap.

2. The Maintenance Electrician maintains filling and dispensing logs for the mobile refueler bulk storage container and emergency generator engine fuel bulk storage containers.

Inspections

1. The Maintenance Electrician visually inspects the mobile refueler bulk storage container before, during, and after each use for signs of leaks or spills.

2. SPCC Plan inspections are conducted at least monthly.

Spill Cleanup

Incidental spills that may occur during fueling are cleaned up using pads or absorbent available in a spill cleanup kit maintained on the Maintenance Electrician's service truck. Spill cleanup debris is collected and submitted for pickup and disposal through EH&S.

Appendix E

Sample SPCC Plan Inspection Checklist

UC Riverside Monthly SPCC Plan Inspection Checklist

This inspection checklist must be completed *each month* for all oil storage containers over 55 gallons capacity. Provide further description and comments, if necessary, on a separate sheet of paper and attach to this sheet. Any item checked "No" must be described and corrective actions addressed immediately. *Questions? Call EH&S, Environmental Programs at (951) 827-2416.*

Send copies of completed checklists to Environmental Programs at EH&S, or email them to ehs@ucr.edu.

Location:_____ Inspected By:_____ Date:_____

Bulk Storage Containment	**Yes**	**No**	**N/A**	**Description and Comments**
No signs of leakage on surrounding area				
No water and/or debris present				
Containment drain valve in closed position				
Bulk Storage Equipment	**Yes**	**No**	**N/A**	**Description and Comments**
Drain valves on spill box on fill pipe are closed				
Drain valves on spill box on fill pipe are operable				
No debris, residue, and/or water in spill box on fill pipe				
Overfill equipment alarm test operation passed				
Overfill equipment mechanical test operation passed				
Visual and/or mechanical liquid level devices are easily readable				
Visual and/or mechanical liquid level devices show no physical damage				
Bulk Storage Leaks	**Yes**	**No**	**N/A**	**Description and Comments**
No drip marks present				
No fire hazard observed				
No localized dead vegetation observed				
No material present in interstitial space				
No puddles containing spilled or leaked material observed				
No visible corrosion present				
No visible cracks present				
No visible discoloration present				
Vent caps operational				
Bulk Storage Piping	**Yes**	**No**	**N/A**	**Description and Comments**
No abrasions at pipe supports present				
No bowing of pipe between supports present				
No discoloration present				
No droplets of stored material observed				
No evidence of stored material seepage from valves or seals present				
No visible corrosion present				
Portable Storage Area	**Yes**	**No**	**N/A**	**Description and Comments**
No debris, spill, or other fire hazard observed in storage area				
Portable storage containers are within designated storage area				

University of California, Riverside Main Campus
SPCC Plan Inspection Checklist

UC Riverside Monthly SPCC Plan Inspection Checklist

This inspection checklist must be completed *each month* for all oil storage containers over 55 gallons capacity. Provide further description and comments, if necessary, on a separate sheet of paper and attach to this sheet. Any item checked "No" must be described and corrective actions addressed immediately. *Questions? Call EH&S, Environmental Programs at (951) 827-2416.*

Send copies of completed checklists to Environmental Programs at EH&S, or email them to ehs@ucr.edu.

Location:_____Inspected By:_____Date:_____

Portable Storage Secondary Containment	**Yes**	**No**	**N/A**	**Description and Comments**
No debris, spill, or other fire hazard observed in secondary containment				
No water observed in secondary containment				
Portable Storage Leaks	**Yes**	**No**	**N/A**	**Description and Comments**
No visible container distortions, buckling, denting, and/or bulging				
No signs of leakage around containers				
No signs of leakage around secondary containment or storage area				
Spill Kits	**Yes**	**No**	**N/A**	**Description and Comments**
Spill kit(s) are located for easy access in case of leak or spill				
Spill kit(s) are completely stocked and in good condition				
Security	**Yes**	**No**	**N/A**	**Description and Comments**
Bulk fuel storage container dispensers are locked after normal operating hours				
Facility gates are locked after normal operating hours				
Facility lighting is functioning properly				

Appendix F

Spill Response Procedures Postings

SPCC Plan Emergency Spill Response Procedures:

In the event of a leak or spill of oil, the following procedures should be followed:

1. If there is a fire, injury, or spill to the storm drain, immediately call 911 or UCPD at extension 2-5222 or (951) 827-5222

2. If possible, stop the flow of oil or fuel

3. Isolate and contain the spill by creating an earthen berm, or contain with absorbent material from a spill kit, using a shovel or other available equipment (beware of fire danger)

4. Estimate the amount of spilled oil or fuel

5. Make the required notifications

6. Use available cleanup equipment and/or spill cleanup contractors to cleanup the spill, absorbent material and any contaminated soil

7. Document all spill response and cleanup efforts, including notification calls

SPCC Plan Emergency Spill Response Procedures:

In the event of a leak or spill of oil that cannot be cleaned up using campus resources, the following may be contacted:

- Clean Harbors Environmental Services
  Field Services Office
  7979 Palm Avenue, Unit E
  Highland, CA 92346
  Emergency Phone (800) 645-8265
  Office Phone (909) 742-7477

Alternate Oil Spill Cleanup Contractor:

- PSC Environmental Services/Stericycle
  Environmental Solutions
  2490 W. Pomona Blvd.
  Pomona, CA 91768
  Emergency Phone (877) 577-2669
  Office Phone (909) 598-4449

SPCC Plan Emergency Spill Response Procedures:

In the event of a leak or spill of oil, one of the following persons must be notified:

- Amanda Grey, SPCC Primary Designated Person
  Environmental Programs Manager, EH&S
  (951) 827-2416, extension 2-2416
- Russell Vernon, SPCC Alternate Designated Person
  Director, EH&S
  (951) 827-5119, extension 2-5119
- Scott Corrin, SPCC Alternate Designated Person
  Campus Fire Marshal
  (951) 827-6309, extension 2-6309

In the event of a leak or spill of oil, and the SPCC Designated Person or Alternate Designate Person(s) cannot be notified, the following must be contacted:

- UCR Police Department
  (951) 827-5222

  UCPD will contact EH&S and the Fire Marshal

SPCC Plan Emergency Spill Response Procedures:

In the event of a leak or spill of oil, the following regulatory agency notifications must be made:

- National Response Center
  (800) 424-8802
- California Governor's Office of Emergency Services (Cal OES)
  (800) 852-7550
- County of Riverside Department of Environmental Health (Certified Unified Program Agency-CUPA)
  Toll Free Phone (888) 722-4234
  Office Phone (951) 358-5055
- City of Riverside Fire Department
  (951) 826-5737

SPCC Plan Emergency Spill Response Procedures:

In the event of a leak or spill of oil, persons making regulatory agency notifications must be prepared to relate the following information:

- Exact address or location, and phone number of the facility
- Date and time of the discharge
- Type of material discharged
- Estimates of the total quantity discharged
- Source of the discharge
- Description of all affected media (soil, water)
- Cause of the discharge
- Actions being used to stop, remove, and mitigate the effects of the discharge
- Whether an evacuation may be needed
- Names of individuals and/or organizations who have also been contacted