## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

ORDER NO. R5-2015-0093

FOR
VALLEY WATER MANAGEMENT COMPANY
RACE TRACK HILL FACILITY AND
FEE 34 FACILITY, EDISON
KERN COUNTY

WATER CODE SECTION 13301 ORDER TO COMPLY WITH RESOLUTION 58-349 AND ORDERS 92-110 AND 92-11037

The California Regional Water Quality Control Board, Central Valley Region (hereafter referred to as "Central Valley Water Board" or "Board") finds that:

1. Valley Water Management Company (hereinafter referred to as Valley Water), owns and operates two oil well production wastewater disposal facilities under the names of "Fee 34 Facility" and "Race Track Hill Facility" in the Edison area of Kern County. Each facility has been issued an individual order for operation. However, since the two facilities are parts of a single wastewater processing and disposal operation, they are jointly addressed in this order as a single wastewater processing facility.

#### **FEE 34 FACILITY**

- 2. The Fee 34 Facility (also known as the C-Plant Facility) is on 3.4 acres (Assessor's Parcel Number 388-050-254) in the SW ¼ of the SW ¼ of Section 34, T29S, R29E, MDB&M. The Fee 34 Facility is approximately one mile northeast of the community of Edison in the Edison Oil Field (see Attachment A, which is attached hereto and made part of this Order). Discovered in 1928, the Edison Oil Field as of 2008 had a cumulative production of over 150 million barrels of oil, over 5.5 million barrels in reserve, 932 producing wells, and was ranked 38th among California's largest and most productive oil fields by total ultimate recovery. In the year 2013, the Edison Oil Field produced 790,130 barrels of oil and 12,107,770 barrels of water. 2
- 3. The Fee 34 Facility contains six surface impoundments (Attachment B). Wastewater is transported to the facility by pipeline from various small, independent oil company leases throughout the Edison Oil Field. Crude oil skimmed from the produced waters flows into two netted, unlined oil recovery impoundments until shipped offsite. The wastewater flows through three gunite-lined

"2009 Report of the State Oil & Gas Supervisor," Department of Oil, Gas, and Geothermal Resources (DOGGR), California Department of Conservation, 2009, accessible at ftp://ftp.consrv.ca.gov/pub/oil/annual\_reports/2009/PR06\_Annual\_2009.pdf at p. 65.

<sup>&</sup>lt;sup>2</sup> "2013 Report of the State Oil & Gas Supervisor," Department of Oil, Gas, and Geothermal Resources (DOGGR), California Department of Conservation, 2013, accessible at ftp://ftp.consrv.ca.gov/pub/oil/annual\_reports/2013/PR03\_PreAnnual\_2013.pdf at p. 9.

impoundments equipped with skimmers and is then pumped via pipeline to Valley Water's Race Track Hill Facility for disposal. There is one unlined contingency impoundment for temporary storage of excess wastewater in the instance of power failure or other emergency event. Dimensions of the impoundments range from approximately 30 feet (ft.) x 50 ft. to 120 ft. x 180 ft., and are approximately 10 ft. to 15 ft. deep. An aerial photograph of the Fee 34 Facility is attached hereto as Attachment B and made part of this Order.

- 4. The Fee 34 Facility is regulated by Central Valley Water Board Order Nos. 92-110 and 92-11037. Order 92-110 sets forth general WDRs for the discharge of oil field produced wastewaters from Edison Oil Field operations, including the Fee 34 Facility. Order 92-11037 is the Notice of Applicability of the general WDRs to the Fee 34 Facility, and includes a chemical analysis of the wastewater with the following characteristics: 7,900 micromhos per centimeter (µmhos/cm) electrical conductivity (EC), 4,450 milligrams/liter (mg/l) chloride, and 15.6 mg/l boron.
- 5. The Water Quality Control Plan for the Tulare Lake Basin, Second Edition (hereafter Basin Plan) designates beneficial uses, establishes water quality objectives, and contains implementation plans and policies for all waters of the Basin.
- 6. Surface drainage is toward the East Side Canal in the Arvin-Wheeler Ridge Hydrologic Area (557.30) of the Tulare Lake Basin. Surface waters in the Arvin-Wheeler Ridge Hydrologic Area are designated as Valley Floor Waters. The designated beneficial uses of Valley Floor Waters, as specified in the Basin Plan, are agricultural supply; industrial service and process supply; water contact and non-contact water recreation; warm fresh water habitat; wildlife habitat; preservation of rare, threatened, and endangered species; and groundwater recharge.
- 7. The Fee 34 Facility is in the Kern County Basin Hydrologic Unit, Detailed Analysis Unit (DAU) 258. The designated beneficial uses of the groundwater, as specified in the Basin Plan for DAU 258, are municipal and domestic water supply, agricultural supply, industrial service, and process supply.
- 8. Information obtained from the California Department of Water Resources identified 36 groundwater supply wells within about one-mile of the Fee 34 Facility. The groundwater is primarily used for agricultural supply. Driller's reports for 19 of the wells identify six domestic supply wells, twelve agricultural supply wells, and one industrial supply well.

#### RACE TRACK HILL FACILITY

- 9. The Race Track Hill Facility is located on 338.4 acres in the western half of Section 24, T29S, R29E, MDB&M. The Facility is about fifteen miles east of Bakersfield in Kern County on Assessor's Parcel Number 387-060-031(see Attachment C).
- 10. The Race Track Hill Facility contains 27 unlined surface impoundments and approximately 94 acres of land, a portion of which is used for surface sprinkler disposal. Wastewater discharge began 56 ½ years ago, in approximately December of 1958. Wastewater is transported to the Facility by pipeline from Valley Water's Fee 34 Facility, which is about four miles to the southwest in the Edison Oil Field. The wastewater is discharged to the impoundments for percolation and evaporation. Excess wastewater that does not percolate or evaporate is sprayed onto portions of the 94 acres for disposal.

- 11. The Race Track Hill Facility is in an area of rolling topography and a portion of the site drains toward Cottonwood Creek, about one-half mile northeast of the Facility. Cottonwood Creek is tributary to the Kern River. The designated beneficial uses of the Kern River below the southern California Edison Kern River Powerhouse Number One, as specified in the Basin Plan, are municipal and domestic supply, agricultural supply, industrial service and process supply, hydropower generation, water contact and non-contact recreation, warm fresh water habitat, wildlife habitat, preservation of rare, threatened and endangered species, and groundwater recharge.
- 12. The Race Track Hill Facility is in the Kern County Basin Hydrologic Unit, DAU 257. The designated beneficial uses of the groundwater for DAU 257, as specified in the Basin Plan, are municipal and domestic water supply, agricultural supply, industrial service and process supply, and water contact recreation.
- 13. The Race Track Hill Facility is underlain by unconsolidated sediments of the Kern River-Chanac Series. The consolidated sediments of the Santa Margarita Formation underlie the Kern River-Chanac Series. The top of the Santa Margarita Formation and the overlying sediments dip to the southwest at an angle of approximately five degrees.
- 14. The Race Track Hill Facility's WDRs, Resolution No. 58-349, was adopted by the Central Valley Water Board on September 18, 1958, and set forth requirements for the discharge of oil field produced wastewater at the Facility.
- 15. The WDRs allow the discharge of oil field produced wastewater to the ground surface, into natural drainage channels, and into surface impoundments in Section 24, T298, R29E, MDB&M. The WDRs also allow the discharge of oil field produced wastewater to the ground surface, into natural drainage channels, or into unlined surface impoundments other than those constructed in Section 24, provided the wastewater conforms to the following criteria:
  - a. Total dissolved solids shall not exceed 1,000 parts per million.
  - b. Chlorides shall not exceed 150 parts per million.
  - c. Boron shall not exceed 1.0 part per million.
- 16. The WDRs predate the Basin Plan and do not contain the limitations on the discharge of oil field produced wastewater to surface impoundments within Section 24 that are contained in the Basin Plan.
- 17. Although Resolution 58-349 found "no freshwater producing wells in this vicinity" in 1958, more recent information obtained from the California Department of Water Resources identified six groundwater supply wells within one-mile of the Facility. Groundwater from these wells may have been used for domestic water supply, agriculture supply, and industrial service supply. The current status of these wells is not clear and some may have been destroyed.

#### WASTE DISPOSAL OPERATIONS AND COMPLIANCE

18. <u>Discharge of Waste to Land</u>: This information is based upon the 27 November 2012 and 18 September 2013 Central Valley Water Board inspections of the Fee 34 Facility and Race Track Hill Facility, and based upon Valley Water's wastewater analysis lab report dated 23 July 2013 for the Fee 34 Facility regarding concentrations of EC in µmhos/cm, chloride in mg/l, and boron in mg/l. The Basin Plan and Order 92-110 for Edison Oil Field Operators, and Resolution 58-349 set forth the following waste constituent limitations for the discharge of oil field wastewater:

		Basin Plan &	
		Order 92-110	Res. 58-349
	<u>Units:</u>	<b>Limitation Value:</b>	Limitation Value:
Specific EC:	µmhos/cm	1,000	None
Total Dissolved Solids:	mg/l (ppm)	NA	1,000 (outside Section 24)
Chloride:	mg/l	200	150 (outside Section 24)
Boron:	mg/l	1	1 (outside Section 24)

The Basin Plan allows discharges of oil field wastewater that exceed the above maximum salinity limits to unlined sumps, stream channels, or surface waters if the Discharger successfully demonstrates to the Central Valley Water Board in a public hearing that the proposed discharge will not substantially affect water quality nor cause a violation of water quality objectives.

The 23 July 2013 wastewater analytical results at Fee 34 Facility were measured at the following values and are compared to 1992 levels and the Basin Plan limits:

	<u>Units:</u>	<u>1992 Value</u>	2013 Value:	Basin Plan Limits:
Specific EC:	µmhos/cm	7,900	5,700	1,000
Chloride:	mg/l	4,450	1,800	200
Boron:	mg/l	15.6	14	1

- 19. The Fee 34 Facility and Race Track Hill Facility were also inspected on 27 March 2015. Violations of the WDRs for both facilities were noted during the inspections. At the Fee 34 Facility, wastewater with EC, chloride, and boron values greater than the Basin Plan limits was being discharged to the ponds in violation of Discharge Specification B.1 of the WDRs. Also, the ponds at the Fee 34 Facility had insufficient freeboard in violation of Discharge Specification B.6 of the WDRs and were not adequately netted or covered to preclude access by wildlife to wastewater with oil coatings in violation of Discharge Specification B.4 of the WDRs. The inspection report noted that the Race Track Hill Facility had insufficient freeboard on two ponds and insufficient netting on three ponds.
- 20. On 24 May 1996, Valley Waste Disposal Company, the predecessor of Valley Water, submitted the report *Drilling and Data Acquisition Report, Race Track Hill District, Edison Oil Field, Kern County, California*. The report was submitted pursuant to Discharge Specification B.2.c. of Order 92-110. The report and transmittal letter stated that the Fee 34 Facility "... does not pose a threat to ground water quality and that no further action should be required for continued operation of the site." The transmittal letter also requested a hearing if necessary to demonstrate that the facility does not pose a threat to groundwater quality. There is no record of a response nor an evaluation of the report in the site files, and a hearing before the Central Valley Water Board was not held. Current

Central Valley Water Board staff reviewed the report and transmittal letter and found it inadequate to demonstrate that there have been no impacts, or that there is no threat, to groundwater.

- 21. On 9 October 2013, the Central Valley Water Board issued a Notice of Violation (NOV) to Valley Water (see Attachment D, which is attached hereto and made part of this Order) for violations of the Discharge Specifications of Order 92-110 at the Fee 34 Facility. The NOV allegations included discharging wastewater in excess of the numerical limitations specified in Discharge Specification B.1 (see Finding No. 18), which is causing, or is threatening to cause a condition of pollution,<sup>3</sup> contamination or nuisance<sup>4</sup>; and failure to maintain the minimum freeboard of two feet in two of the impoundments as specified in Discharge Specification B.6, which is causing, or is threatening to cause, a condition of pollution, contamination, or nuisance caused by overtopping the impoundments. Valley Water submitted a response to the NOV on 8 November 2013 addressing each allegation.
- 22. Section 13301 of the Water Code provides in relevant part that:

When a regional board finds that a discharge of waste is taking place, or threatening to take place, in violation of requirements of discharge prohibitions prescribed by the regional board or the state board, the board may issue an order to cease and desist and direct that those persons not complying with the requirements or discharge prohibitions (a) comply forthwith, (b) comply in accordance with a time schedule set by the board, or (c) in the event of a threatened violation, take appropriate remedial or preventive actionCease and desist orders may be issued direct by a board, after notice and hearing.

- 23. The discharge of waste with high salinity and boron concentrations and other oil field wastewater constituents to the ground, surface water, and/or groundwater creates, or threatens to create, a condition of pollution in surface and groundwater, and may result in the degradation of water quality.
- 24. Land around the Fee 34 Facility is being used for agricultural production, primarily citrus and grapes. Land around the Race Track Hill Facility is also used for agricultural production including open stock grazing, a five-acre vineyard located approximately 3,000 feet southwest of the facility, and other crops grown in the area beginning about one mile south of the facility.
- 25. Many of the crops are irrigated with groundwater from local supply wells. Irrigation water with a chloride concentration above 350 mg/l can cause severe crop problems. Boron toxicity can impair

<sup>&</sup>lt;sup>3</sup> "Pollution' is defined by Water Code section 13050, subdivision (I)(1) as, an alteration of the quality of the waters of the state by waste to a degree which unreasonably affects either of the following: (A) The waters for beneficial uses; (B) Facilities which serve these beneficial uses." Water Code §13050(I).

<sup>&</sup>lt;sup>4</sup> "Nuisance' means anything which meets all of the following requirements: (1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property. (2) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal. (3) Occurs during, or as a result of, the treatment or disposal of wastes." Water Code §13050(m).

crops sensitive to boron at concentrations less than 1 mg/l in irrigation water.<sup>5</sup>

- 26. Underlying groundwater may be degraded if mixed with oil field wastewater. Elevated EC, chloride, and boron levels could impair groundwater for municipal and domestic supply and agricultural supply uses.
- 27. Due to the topographic relief at the Race Track Hill Facility and the relatively close proximity (one-half mile) to Cottonwood Creek, a major storm has the potential to flush a portion of the accumulated salts discharged to the spray field the past 50-60 years into Cottonwood Creek, which could then be transported to the Kern River 2.5 miles downstream. This has the potential to result in a temporary salt and boron loading of water in the Kern River, and to increase salt and boron loading to groundwaters at the terminus of Kern River flow where groundwater is recharged. Operation of the spray field would require a permit under the National Pollution Discharge Elimination System, but the disposal operation currently would not meet the requirements for discharge to a surface water.

#### HYDROGEOLOGICAL INVESTIGATION

- 28. On 1 July 2014, the Central Valley Water Board issued an Order pursuant to Section 13267 of the California Water Code to Valley Water requiring preparation and submission of work plans for hydrogeologic site characterizations for each facility and technical reports presenting their findings. The Discharger petitioned this Order to the State Water Resources Control Board.
- 29. Valley Water agreed to assess the impacts of wastewater discharges at the Racetrack and Fee 34 facilities. To date, the approach has been to conduct the work in phases with preparation of a work plan containing a specific scope of work, implementation of the work, followed by reporting. Based on the results of each phase, additional work is proposed.
- 30. As of 1 May 2015, two phases of field work have been completed, including:
  - Soil borings at both Facilities;
  - Soil sampling and analysis;
  - Shallow and deep monitoring well installations at both facilities;
  - · Groundwater sampling and analysis; and
  - Leak-testing the lined ponds at the Fee 34 Facility.

<sup>5</sup> Ayers, R. S., and D. W. Westcott. "FAO 1985. Water Quality for Agriculture." *Irrigation and Drainage Paper* 29.

- 31. As of 1 May 2015, the results of the Phase 1 field work and parts of the Phase 2 field work have been formally reported. The conclusions include:
  - There are wastewater constituents in the soils at the Race Track Hill Facility;
  - Groundwater occurs at depths ranging from 48 to 80 feet below ground surface at the Race Track Hill Facility;
  - There is groundwater mounding beneath the Race Track Hill Facility;
  - Groundwater beneath the Racetrack Hill Facility flows to the southwest;
  - Groundwater beneath the Racetrack Hill Facility has been impacted by the wastewater disposed to the ponds. The EC of the groundwater and the concentrations of boron and chloride are similar to oil field wastewater at the Race Track Hill Facility; and
  - The seepage rates of the North Pond and the South Pond at the Fee 34 Facility are
    4.4 millimeters per day and 1.8 millimeters per day, respectively. Those rates translate to
    approximately 500 gallons per day from the North Pond and approximately 200 gallons per
    day from the South Pond.
- 32. The investigations conducted by Valley Water have determined the discharge of wastewater in excess of Basin Plan limitations and water quality objectives has caused a condition of pollution to groundwater at the Racetrack Hill Facility. Additional assessment is needed to determine the nature and extent of the wastewater constituents in groundwater.
- 33. The apparent direction of groundwater flow beneath the Racetrack Hill Facility is towards residential water supply wells immediately to the southwest and towards Edison and Bakersfield, five to ten miles to the southwest.
- 34. Based on a review of the site conditions, wastewater quality and volumes, and the results of the field investigations, spraying wastewater onto the ground surface and into natural drainages exacerbates the pollution of the underlying groundwater and creates a potential for waste constituents to drain into Cottonwood Creek and the Kern River.

#### **REGULATORY CONSIDERATIONS**

35. If the Fee 34 Facility has resulted in impacts to beneficial uses of the underlying groundwater, this Order requires the Discharger to submit a Report of Waste Discharge to obtain new WDRs for the operation of the Fee 34 Facility by 1 September 2016. This Order also requires that the Discharger submit a Report of Waste Discharge for the Race Track Hill Facility by 1 September 2016. It is anticipated that General Waste Discharge Requirements for the operation of oil field wastewater ponds would be proposed for consideration by the Central Valley Water Board in the spring or summer of 2016. If the discharges from the Fee 34 Facility or Race Track Hill Facility are eligible for coverage under the anticipated General Order, and if this General Order is in effect by 1 September 2016, the Discharger may choose coverage under the General Order rather than the submittal of individual reports of waste discharge for the two facilities.

- 36. The deadlines set forth herein are reasonable given the need to investigate the potential threat to groundwater and surface water quality.
- 37. In accordance with Water Code section 13267(b) these findings provide Valley Water with a written explanation with regard to the need for remedial action and reports, and identify the evidence that supports the requirement to implement investigative activities, to implement cease and desist activities if needed, and to submit the reports. Valley Water owns and operates the Fee 34 Facility and Race Track Hill Facility which are subject to this Cease and Desist Order. The technical and monitoring reports required by this Order are necessary to determine compliance with this Cease and Desist Order. The actions and reports required by this Order are needed to provide information to provide information to the Central Valley Water Board regarding (a) the nature and extent of the discharge, (b) the nature and extent of pollution in waters of the State and/or U.S. created by the discharge, (c) the threat to public health posed by the discharge; and (d) appropriate cease and desist measures. Based on the nature and possible consequences of the discharges, including the contamination of surface water or groundwater, or impacts to groundwater recharge areas, the burden of the required tasks, including the costs, bears a reasonable relationship to the need for the tasks and reports, and the benefits to be obtained from the tasks and information.
- 38. Issuance of this Cease and Desist Order is being taken for the protection of the environment and as such is exempt from provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 et seq.) in accordance with California Code of Regulations, title 14, sections 15061(b)(3), 15306, 15307, 15308, and 15321. This Cease and Desist Order generally requires Valley Water to submit plans for approval prior to implementation of cleanup activities at the Fee 34 Facility and Race Track Hill Facility. Mere submission of plans is exempt from CEQA as submission will not cause a direct or indirect physical change in the environment and/or is an activity that cannot possibly have a significant effect on the environment. CEQA review at this time would be premature and speculative, as there is simply not enough information concerning Valley Water's proposed remedial activities and possible associated environmental impacts.
- 39. If the Regional Board determines that implementation of any plan required by this Cease and Desist Order will have a significant effect on the environment, the Regional Board will conduct the necessary and appropriate environmental review prior to the Assistant Executive Officer's approval of the applicable plan. The Discharger will bear the costs, including the Regional Board's costs, of determining whether implementation of any plan required by this Cease and Desist Order will have a significant effect on the environment and, if so, in preparing, handling, and providing any documents necessary for environmental review. If necessary, the Discharger and a consultant acceptable to the Regional Board shall enter into a memorandum of understanding with the Regional Board regarding such costs prior to undertaking any environmental review.

As a result of the events and activities described in this Order, the Central Valley Water Board finds that a discharge of waste in violation of the Basin Plan has polluted groundwater. This Order requires Valley Water to take appropriate remedial action and to comply in accordance with the time schedule set forth below.

40. This Cease and Desist Order is based upon: 1) Chapter 5, Enforcement and Implementation commencing with section 13300, of the Porter-Cologne Water Quality Control Act (Water Code Division 7, commencing with section 13000); 2) Water Code

section 13267, Investigations; inspections, Chapter 4, Regional Water Quality Control; 3) all applicable provisions of the Basin Plan including beneficial uses, water quality objectives, and implementation plans; 4) California State Water Resources Control Board (State Water Board) Resolution No. 68-16 (*Statement of Policy with Respect to Maintaining High Quality of Waters in California*); 5) State Water Board Resolution No. 92-49 (*Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code section 13304*); and 6) all other applicable legal authority.

41. Water Code section 13267 subdivision (b)(1) states, in relevant part:

In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

42. On 30/31 July 2015, in Rancho Cordova, California, after due notice to the Discharger and all other affected persons, the Central Valley Water Board conducted a public hearing at which evidence was received to consider an Order under Water Code section 13301 to establish a time schedule to achieve compliance with the Basin Plan or cease discharge.

**IT IS HEREBY ORDERED THAT**, pursuant to Water Code sections 13301 and 13267, Valley Water Management Company shall implement the following measures necessary to comply with the requirements of the *Water Quality Control Plan for the Tulare Lake Basin* and Orders issued by the Board.

#### Fee 34 Facility

- By 1 October 2015, Valley Water Management Company shall submit a *Phase 3 Investigation* Work Plan for the Fee 34 Facility. This work plan shall describe a time schedule under which
   Valley Water Management Company will conduct the following activities, including the time frame
   for completing each activity:
  - Conduct a hydrogeological site characterization to determine nature and extent of the release of waste constituents to the unsaturated zone and the groundwater underlying the Fee 34 Facility;
  - b. Prepare and submit a Water Quality Protection Standard Report proposing statistical data analysis methods to calculate concentration limits for each Constituent of Concern specified in Monitoring and Reporting Program R5-2015-0093;
  - c. Identify and sample water supply wells located within one-mile of the Fee 34 Facility and analyze the samples for waste constituents of concern; and

d. Analyze groundwater, surface water, and soil samples at a California certified laboratory in accordance with the SAP submitted as part of the Phase I Work Plan (see Finding No. 28) and approved by the Assistant Executive Officer (or his/her delegate).

Valley Water Management Company shall implement the *Phase 3 Investigation Work Plan for the Fee 34 Facility* immediately upon the Assistant Executive Officer's approval of the workplan. All timelines indicated in the workplan, as approved, are fully enforceable under this Order.

- 2. If the investigation conducted pursuant to the *Phase 3 Investigation Work Plan for the Fee 34 Facility* indicates that a release of waste constituents has impacted the unsaturated zone or the groundwater underlying the Fee 34 Facility such that the beneficial uses of the underlying groundwater or surface waters are threatened, then Valley Water Management Company shall submit a *Phase 4 Remediation Work Plan for the Fee 34 Facility*. This work plan shall describe a time schedule under which Valley Water Management Company will conduct the following activities, including the time frame for completing each activity:
  - a. Conduct a hydrogeological site characterization to determine the nature and extent of any release of waste constituents consistent with the evaluation monitoring program requirements contained in California Code of Regulations, Title 27, section 20005 et seq. (Title 27);
  - Following the characterization of the nature and extent of the release, a groundwater, surface water, and/or soil remediation program consistent with the corrective action program requirements contained in Title 27 (this will entail the preparation of an engineering feasibility study followed by a proposed corrective action program); and
  - c. Based on the information acquired during the hydrogeological site characterization, submit a revised report of waste discharge that will ensure that discharges at the Fee 34 Facility will be in compliance with the *Water Quality Control Plan for the Tulare Lake Basin*.

Valley Water Management Company shall implement the *Phase 4 Remediation Work Plan for the Fee 34 Facility* immediately upon the Assistant Executive Officer's approval of the workplan. All timelines indicated in the workplan, as approved, are fully enforceable under this Order. In no event shall the report of waste discharge required under 2.c., above be submitted after **1 September 2016**.

#### **Race Track Hill Facility**

- 3. By 1 October 2015, Valley Water Management Company shall submit a *Phase 3 Investigation Work Plan for the Race Track Hill Facility*. This work plan shall describe a time schedule under which Valley Water Management Company will conduct the following activities, including the time frame for completing each activity:
  - Continue a hydrogeological site characterization to determine the nature and extent of the release of waste constituents consistent with the evaluation monitoring program requirements contained in Title 27;
  - b. Prepare and submit a Water Quality Protection Standard Report proposing statistical data analysis methods to calculate concentration limits for each Constituent of Concern specified in Monitoring and Reporting Program R5-2015-0093.
  - c. Identify and sample water supply wells located within one-mile of the Race Track Hill Facility and analyze the samples for waste constituents of concern;

- d. Provide an assessment of the potential water quality impacts to groundwater and surface water from operation of the sprayfields. This assessment shall look at the buildup of salts on the soil surface and in the soil column, shall evaluate the capacity of the soils beneath the sprayfield and the plants grown in the sprayfield to attenuate the salt, and shall evaluate the extent to which stormwater runoff from the sprayfields may mobilize salts and transport them to surface waters; and
- e. Analyze groundwater, surface water, and soil samples at a California certified laboratory in accordance with the SAP submitted as part of the Phase I Work Plan (see Finding No. 28) and approved by the Assistant Executive Officer (or his/her delegate).

Valley Water Management Company shall implement the *Phase 3 Investigation Work Plan for the Race Track Hill Facility* immediately upon the Assistant Executive Officer's approval of the workplan. All timelines indicated in the workplan, as approved, are fully enforceable under this Order.

- 4. **By 1 October 2015**, Valley Water Management Company shall submit a *Race Track Hill Water Balance Report* that contains a water balance for the Race Track Hill facility. The *Race Track Hill Water Balance Report* must provide calculations showing:
  - The storage capacity and surface areas of the surface impoundments and sprayfield, including the topography of the sprayfields;
  - b. The volume of water applied each month to the surface impoundments;
  - c. The calculated leakage to the subsurface per month from the surface impoundments;
  - d. The monthly evaporation loss from the surface impoundments;
  - e. The monthly rainfall falling at the facility;
  - f. The monthly volume of water applied to the sprayfields;
  - g. The monthly volume of water returned to the ponds from collection of stormwater runoff from the sprayfield areas; and
  - h. The monthly evapotranspiration from the sprayfields.

The Race Track Hill Water Balance Report should include actual or estimated monthly volumes of water discharged to the Rack Track Hill facility for the period from 1 January 2010 through 31 December 2014, the average annual discharge for each of these years, as well as the average monthly discharges for each month in a typical calendar year.

- 5. **By 1 April 2016**, Valley Water Management Company shall submit a *Surface Water Quality Protection Report*. This report shall:
  - Describe the current runoff control features and BMPs for the sprayfields at the Rack Track Hill facility,
  - b. Explain how operation and maintenance of the sprayfields runoff control features and BMPs will ensure that there is no discharge of stormwater from the sprayfields to surface waters.
  - c. If current runoff control features and BMPs for the sprayfields at the Rack Track Hill facility shows that there is insufficient capacity to capture and store the stormwater runoff from the sprayfields, then the *Surface Water Quality Protection Report* shall describe a time schedule under which Valley Water Management Company will add runoff controls and/or BMPs to

ensure full capture of all stormwater runoff from the sprayfields and impoundments at the Race Track Hill facility by 1 October 2016.

**By 1 October 2016**, Valley Water Management Company shall fully implement all runoff control features and BMPs described or proposed in the in the *Surface Water Quality Protection Report*.

- 6. By 1 September 2016, Valley Water Management Company shall:
  - a. Submit a complete *Report of Waste Discharge*<sup>6</sup> based on the information acquired during the hydrogeological site characterization that will ensure that future discharges at the Race Track Hill Facility will be in compliance with the *Water Quality Control Plan for the Tulare Lake Basin*. The Report of Waste Discharge may propose a reasonable time schedule to come into compliance with applicable requirements of the *Water Quality Control Plan for the Tulare Lake Basin*. Delays in acquiring authorization from the Division of Oil, Gas & Geothermal Resources to conduct underground injection activities shall not be used as an excuse to delay this submittal.
  - b. Submit a Closure Plan and Closure Time Schedule for the wind-down and closure of any portions of the Race Track Hill Facility that Valley Water Management Company determines are no longer to be used. The Closure Plan and Time Schedule shall specify the dates by which Valley Water Management Company will remove the residual liquid waste and close the ponds in accordance with applicable regulatory requirements.
  - c. Submit a *Race Track Hill Remediation Workplan* based on the *Phase 3 Investigation Work Plan for the Race Track Hill Facility* that shall either
    - i. Describe a time schedule under which Valley Water Management Company will conduct groundwater, surface water, and/or soil remediation consistent with the corrective action program requirements of Title 27. This will entail the preparation of an engineering feasibility study followed by a proposed corrective action program; or
    - ii. Specify a suite of groundwater, surface water, and/or soil management practices that Valley Water Management Company will implement to minimize or prevent any additional water quality degradation that may occur due to current and historic waste management practices at the Race Track Hill Facility. Concurrently, Valley Water Management Company would propose studies and/or technical reports in support of an amendment that would incorporate site specific objectives, groundwater management zones, or other alternate compliance strategies for the Race Track Hill Facility into Water Quality Control Plan for the Tulare Lake Basin (such proposals would need to be coordinated with the CV-SALTS stakeholder initiative). However, if such proposals cannot ensure the protection of beneficial uses in the vicinity of the Race Track Hill Facility or are otherwise infeasible, the Central Valley Water Board or its delegee may reject the proposal and require Valley Water Management Company to comply with the remediation requirements of 6.c.i, above.
- 7. **On 1 January 2018**, Valley Water is prohibited from discharging to surface impoundments or land at the Race Track Hill facility unless those discharges are in full compliance with waste discharge requirements issued by the Central Valley Water Board. Waste discharge requirements issued by

<sup>6</sup> If the discharges at the facility may be regulated under a General Order, Valley Water Management Company may elect to submit a Notice of Intent to obtain coverage under that General Order in lieu of submitting an individual Report of Waste Discharge.

the Central Valley Water Board may include an enforceable time schedule, should additional time be necessary to complete actions pursuant to section 6.c.ii, above.

#### **Annual Reporting**

Beginning 1 November 2015, or a date approved by the Assistant Executive Officer (or his/her delegate), and quarterly thereafter until all activities described in this Order are complete, Valley Water Management Company shall submit technical reports that provide information to document the activities completed to date. Corrective actions shall be proposed and included in these technical reports when Work Plan activities fail to satisfy any interim or final success criteria

#### Other Requirements

- 8. Electronic and Paper Media Reporting Requirements. Valley Water shall submit both electronic and paper copies of all reports required under this Cease and Desist Order including work plans, technical reports, and monitoring reports. Larger documents shall be divided into separate files at logical places in the report to keep file sizes under 150 megabytes. Valley Water shall continue to provide a paper transmittal letter, a paper copy of all figures larger than 8.5 inches by 14 inches (legal size), and an electronic copy (on Compact Disc [CD] or other appropriate media) of all reports to the Central Valley Water Board. All paper correspondence and documents submitted to the Central Valley Water Board shall include the following identification numbers in the header or subject line: Fee 34 Facility Geotracker Site ID: T10000005197; and Race Track Hill Facility Geotracker Site ID: T10000005199. Valley Water shall comply with the following reporting requirements for all reports and plans (and amendments thereto) required by this Order:
  - (a) Reports and Plans Required by this Order. Valley Water shall submit one paper and one electronic, searchable Portable Document Format (PDF) copy of all technical reports, monitoring reports, progress reports, and plans required by this Order. The PDF copy of all the reports shall also be uploaded into the Geotracker database, as required by Reporting Requirement 2.(b)(iv) below.
  - (b) Electronic Data Submittals to the Central Valley Water Board in compliance with the Cease and Desist Order are required to be submitted electronically via the Internet into the Geotracker database (Fee 34 Facility Geotracker Site ID: T10000005197; and Race Track Hill Facility Geotracker Site ID: T10000005199). The electronic data shall be uploaded on or prior to the regulatory due dates set forth in the Cease and Desist Order or addenda thereto. To comply with these requirements, Valley Water shall upload to the Geotracker database the following minimum information:
    - (1) Laboratory Analytical Data: Analytical data (including geochemical data) for all waste, soil, and water samples shall be submitted in Electronic Deliverable Format (EDF), which facilitates the transfer of data from the laboratory to the end user. Waste, soil, and water include analytical results of samples collected from the following locations and devices: surface samples, equipment, monitoring wells, boreholes, gas and vapor wells or other collection devices, surface water, groundwater, piezometers, and stockpiles.
    - (2) Locational Data: All permanent monitoring locations (monitoring wells, sediment sampling locations, surface water sampling locations, etc.) shall be surveyed with latitude and

longitude coordinates in a decimal degree format based on the North American Datum 1983 ellipsoid, and accurate to within one meter (3 feet) and elevation data accurate to 0.01 feet.

- (3) Site Maps: Site maps which display discharge locations, streets bordering the Facilities, and sampling locations for all waste, soil, and water samples. A site map is a stand-alone document that may be submitted in various electronic formats. Site maps must also be uploaded to show the maximum extent of any soil impact and water pollution. An update to the site maps may be uploaded at any time.
- (4) Electronic Report: A complete copy (in character searchable PDF) of all work plans, work plan modifications, assessment, cleanup, and monitoring reports including the signed transmittal letters, professional certifications, and all data presented in the reports.
- 9. Duty to Use Qualified Professionals. As required by the California Business and Professions Code sections 6735, 7835, and 7835.1, all reports shall be prepared by, or under the supervision of, a California Registered Engineer or Professional Geologist and signed by the registered professional. Each technical report submitted by Valley Water shall contain the professional's signature and/or stamp of the seal.
- 10. **Signatory Requirements.** All reports required under this Cease and Desist Order shall be signed and certified by Valley Water or by a duly authorized representative and submitted to the Central Valley Water Board. A person is a duly authorized representative only if: 1) The authorization is made in writing by Valley Water; and 2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity. (A duly authorized representative may be either a named individual or any individual occupying a named position.)
- 11. With each report required by this Cease and Desist Order, Valley Water shall provide under penalty of perjury under the laws of California a "Certification" statement to the Central Valley Water Board. The "Certification" shall include the following signed statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Pursuant to Water Code section 13350, any person who violates a cease and desist order may be liable administratively or civilly in an amount up to fifteen thousand dollars (\$15,000) for each day in which the cease and desist order is violated.

12. All monitoring and technical reports required under this Cease and Desist Order shall be submitted to:

California Regional Water Quality Control Board Central Valley Region 1685 E Street, Suite 200 Fresno, CA 93706

Attn: Ron Holcomb

Geotracker Site ID No.: T10000005197 or T10000005199

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement or may issue a complaint for administrative civil liability.

Failure to comply with this Order, Order 92-110, Order 92-11037, or Resolution 58-349 may result in the assessment of Administrative Civil Liability of up to \$10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050, et seq. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public\_notices/petitions/water\_quality

or will be provided upon request.

I, PAMELA C. CREEDON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 30 July 2015.

Original signed by:
PAMELA C. CREEDON, Executive Officer
30 July 2015
(Date)

## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

#### MONITORING AND REPORTING PROGRAM R5-2015-0093

FOR
VALLEY WATER MANAGEMENT COMPANY
RACE TRACK HILL FACILITY AND
FEE 34 FACILITY, EDISON
KERN COUNTY

Compliance with this Monitoring and Reporting Program is required pursuant to Water Code section 13267 as ordered by Cease and Desist Order R5-2015-0093 (the "CDO"). Failure to comply with this program constitutes noncompliance with the CDO and the Water Code, which can result in the imposition of civil liability. All sampling and analyses shall be by United States Environmental Protection Agency (USEPA) approved methods. The test methods chosen for detection of the constituents of concern shall be subject to review and concurrence by the California Regional Water Quality Control Board, Central Valley Region ("Central Valley Water Board").

A complete list of substances tested for and reported on by the testing laboratory shall be provided to the Central Valley Water Board. All chromatographic peaks must be reported. In addition, both the method detection limit and the practical quantification limit shall be reported. Detection limits shall equal or be more precise than USEPA methodologies. Water samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136. All quality assurance/quality control (QA/QC) samples must be run on the same dates when samples were actually analyzed. Proper chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report. All analyses must be performed by a California Department of Public Health certified laboratory.

The Discharger shall maintain all sampling and analytical results: date, exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Central Valley Water Board.

#### **GROUNDWATER MONITORING**

The Discharger shall operate and maintain a groundwater monitoring system at the Fee 34 Facility and at the Race Track Hill Facility that complies with the requirements of the CDO and is consistent with the detection monitoring requirements of section 20420 of California Code of Regulations, title 27, section 20005 et seq. (Title 27). The monitoring system shall be certified by a California-licensed professional civil engineer or geologist as being consistent with the detection monitoring requirements of Title 27. The Discharger shall revise the groundwater monitoring system (after review and approval by Central Valley Water Board staff) as needed to characterize the groundwater and to delineate the nature and extent of any release of waste constituents due to the operation of each facility.

Groundwater samples shall be collected from groundwater monitoring wells and other sampling points established in accordance with the hydrogeological characterization required by the CDO. The samples shall be collected at the specified frequencies and analyzed for the parameters and constituents listed in Table I. The Discharger shall collect, preserve, and transport groundwater

MONITORING AND REPORTING PROGRAM R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

samples in accordance with the Sample Collection and Analysis Plan approved by the Assistant Executive Officer.

The Discharger is required to submit a Water Quality Protection Standard (WQPS) Report that proposes statistical data analysis methods to calculate concentrations limits for each Monitoring Parameter and Constituent of Concern.

#### The report shall:

- Identify all distinct bodies of surface and groundwater that have been or could be affected by a release from a surface impoundment or land application activities. This list shall include any permanent or ephemeral zones of perched groundwater underlying the facility.
- b. Include a map showing all monitoring points (monitoring points within the degradation plume and monitoring points hydraulically downgradient and outside of the degradation plume) for the groundwater monitoring program for each groundwater zone that has been or could be affected by a release.
- c. Evaluate the perennial direction(s) of groundwater movement within each groundwater zone(s).
- d. Include a proposed statistical method for calculating concentration limits for Monitoring Parameters and Constituents of Concern that are detected in 10% or greater of the background data (naturally-occurring constituents) using a statistical procedure from Section 20415(e)(8)(A-D)] or Section 20415(e)(8)(E) of Title 27.
- e. Include a retesting procedure to confirm or deny measurably significant evidence of a release pursuant to Section 20415(e)(8)(E) and Section 20420(j)(1-3) of Title 27.

Any proposed changes to the WQPS, other than an annual update of the concentration limits, shall be submitted in a report for review and approval.

Quarterly monitoring for the parameters and constituents listed in Table I is necessary to collect sufficient data to establish a WQPS. After sufficient data have been collected and a WQPS established, the Discharger may request that the sampling frequency of Constituents of Concern be revised by providing technical justification.

#### **INFLUENT MONITORING**

Produced water samples shall be collected at a point in the system before discharge to the ponds. Time of collection of the sample shall be recorded. The collected produced water samples shall be analyzed for the parameters and constituents listed in Table I in accordance with the specified methods

MONITORING AND REPORTING PROGRAM R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

and frequencies. The Discharger shall collect, preserve, and transport produced water samples in accordance with the approved Sample Collection and Analysis Plan.

#### **FACILITY MONITORING**

Permanent markers shall be in place in each pond with calibrations indicating the water level at design capacity and available operational freeboard. The freeboard shall be monitored on all ponds to the nearest tenth of a foot **monthly**.

Annually, prior to the anticipated rainy season, but **no later than 30 September**, the Discharger shall conduct an inspection of the facility. The inspection shall assess repair and maintenance needed for: drainage control systems; slope failure; groundwater monitoring wells, or any change in site conditions that could impair the integrity of the surface impoundments or precipitation and drainage control structures; and shall assess preparedness for winter conditions including, but not limited to, erosion and sedimentation control. The Discharger shall take photos of any problems areas before and after repairs. Any necessary construction, maintenance, or repairs shall be **completed by 31 October**. Annual facility inspection reporting shall be **submitted by 30 November**.

The Discharger shall inspect all precipitation, diversion, and drainage facilities for damage **within 7 days** following major storm events (e.g., a storm that causes continual runoff for at least one hour) capable of causing flooding, damage, or significant erosion. The Discharger shall take photos of any problems areas before and after repairs. Necessary repairs shall be completed **within 30 days** of the inspection. Notification and reporting requirements for major storm events shall be conducted as required in Reporting Requirements 2. of this MRP.

The Discharger shall monitor and record on-site rainfall data using an automated rainfall gauge. Data shall be used in establishing the severity of storm events and wet seasons for comparison with design parameters used for waste management unit design and conveyance and drainage design. Daily data and on-site observation shall be used for establishing the need for inspection and repairs after major storm events. Rainfall data shall be reported in the quarterly monitoring reports as required by this MRP.

#### REPORTING REQUIREMENTS

- 1. The Discharger shall report all monitoring data and information as specified herein. Reports that do not comply with the required format will be **REJECTED** and the Discharger shall be deemed to be in noncompliance with this Monitoring and Reporting Program.
- 2. Quarterly groundwater monitoring and remediation system reports shall be submitted to the Central Valley Water Board according to the schedule below.

Monitoring PeriodReport DueJanuary – MarchApril 30April – JuneJuly 31July – SeptemberOctober 31

MONITORING AND REPORTING PROGRAM R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

October – December January 31

Each guarterly report shall include the following minimum information:

- (a) a description and discussion of the groundwater sampling event(s) and results, including trends in the concentrations of waste constituents and groundwater elevations in the wells. If there are any deficiencies during the sampling event or if impacts to groundwater extend beyond recent historical boundaries, the report shall include an explanation and/or evaluation and propose options for addressing or correcting the deficiencies;
- (b) field logs that contain, at a minimum, water quality parameters measured before, during, and after purging, method of purging, depth of water, volume of water purged, etc.;
- (c) groundwater contour maps for all groundwater zones, if applicable;
- (d) waste constituent isoconcentration maps for all groundwater zones, if applicable;
- (e) a table showing well construction details that shall include, at a minimum, well number, groundwater zone being monitored, measuring point elevation, depth to top and bottom of screen, water level elevation, and depth to water;
- (f) cumulative data tables containing all historical water quality analytical results and depth to groundwater;
- (g) a copy of all laboratory analytical data reports;
- (i) results of any monitoring done more frequently than required at the locations specified in this Monitoring and Reporting Program or at other locations at the site shall be reported to the Central Valley Water Board;
- (j) a summary of any spills/releases that occurred during the quarter and tasks undertaken in response to the spills/releases;
- (k) an update and status on each of the outstanding tasks required by the CDO or Assistant Executive Officer:
- (I) a map showing all wells on the facility;
- 3. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements. All data shall be submitted in an electronic form acceptable to the Assistant Executive Officer.
- 4. The Discharger shall submit an **annual report by 31 January** of each year for the preceding year. The report can be combined with the Discharger's fourth quarter report. The report shall contain:

KERN COUNTY

- a. Both tabular and graphical summaries of all data obtained during the year;
- b. An in-depth evaluation of groundwater conditions at the site including short and longterm trends of the constituents of concern in each area of the site;
- c. An evaluation of the effectiveness of the groundwater monitoring network in delineating the lateral and vertical extent of impacts to groundwater in all affected areas of the site. This needs to include an identification of any data gaps and potential deficiencies in the monitoring system or reporting program. The report shall include recommendations to address any deficiencies in the monitoring and report program;
- d. An evaluation of the effectiveness of each of the remediation systems. The evaluation shall include the effectiveness of the systems in remediating impacted groundwater and each of the source areas or suspected source areas. The report shall include recommendations for improving or expanding the systems, if necessary;
- e. A summary of the performance of each remediation system including the amount and percentage of operating and downtime, and the amount of petroleum hydrocarbons removed; and
- f. A summary of all spills/releases, if any, that occurred during the year, tasks undertaken in response to the spills, the results of the tasks undertaken.
- 5. For each required quarterly and annual report, one report shall be submitted containing all monitoring data collected at the site by the Discharger and include all information cited in the above sections. A hard copy of all required reports on/or responses shall be submitted by the due date unless otherwise arranged with Central Valley Water Board staff.
- 6. The Discharger may request that the Assistant Executive Officer change the monitoring frequency or constituents of concern after the first year of monitoring. The request needs to include a demonstration that adequate data has been collected to determine background groundwater conditions and a justification for the change.
- 6. The Discharger shall maintain a data base containing historical and current monitoring data in an electronic form acceptable to the Assistant Executive Officer. The data base shall be updated quarterly and provided to the Central Valley Water Board in electronic format.
- 7. The Discharger shall submit electronic copies of all workplans, reports, analytical results, and groundwater elevation data over the Internet to the State Water Board Geographic Environmental Information Management System database (GeoTracker) at <a href="http://geotracker.swrcb.ca.gov">http://geotracker.swrcb.ca.gov</a>. Electronic submittals shall comply with GeoTracker standards and procedures as specified on the State Water Board's web site. Uploads to Geotracker shall be completed on or prior to the due date. In addition, a hardcopy of each document shall be submitted to:

RACE TRACK HILL FACIL FEE 34 FACILITY KERN COUNTY

> California Regional Water Quality Control Board Central Valley Region 1685 E Street, Suite 200 Fresno, CA 93706 Attn: Ron Holcomb

Geotracker Site ID: T10000005197 or T10000005199

8. A transmittal letter explaining the essential points shall accompany each report. At a minimum, the transmittal letter shall identify any violations found since the last report was submitted, and if the violations were corrected. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter. The transmittal letter shall also state that a discussion of any violations found since the last report was submitted, and a description of the actions taken or planned for correcting those violations, including any references to previously submitted time schedules, is contained in the accompanying report. The transmittal letter shall contain a statement identical to that required by the CDO by the discharger, or the discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate, and complete.

The Discharger shall implement the above monitoring program on the effective date of this Program.

_	Original signed by:	
Ordered by:		
	PAMELA C. CREEDON, Executive Officer	
	30 July 2015	
	(Date)	

MONITORING AND REPORTING PROGRAM NO. R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

Table 1	Table 1 - Groundwater and Influent Monitoring					
<u>Parameters</u>	<u>Units</u>	Monitoring Frequency	US EPA or other Method	Reporting Frequency		
Groundwater Elevation	feet & hundredths, MSL <sup>1</sup>	Quarterly		Quarterly		
Field Parameters						
Temperature Electrical Conductivity pH	°F² umhos/cm³ pH units	Quarterly Quarterly Quarterly		Quarterly Quarterly Quarterly		
Monitoring Parameters						
Total Dissolved Solids (TDS) Electrical Conductivity Boron, dissolved	mg/l <sup>4</sup> umhos/cm mg/l	Quarterly Quarterly Quarterly	160.1 120.1 6010B	Quarterly Quarterly Quarterly		
Standard Minerals	4	0	040.4	0 1 1		
Alkalinity as CaCO3 Bicarbonate Alkalinity as	mg/l mg/l	Quarterly Quarterly	310.1 310.1	Quarterly Quarterly		
CaCO3 Carbonate Alkalinity as		•		•		
CaCO3	mg/l	Quarterly	310.1	Quarterly		
Hydroxide Alkalinity as CaCO3	mg/l	Quarterly	310.1	Quarterly		
Sulfate , dissolved Nitrate-N, dissolved Calcium, dissolved Magnesium, dissolved Sodium, dissolved Potassium Chloride	mg/l mg/l mg/l mg/l mg/l mg/l	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	300.0 300.0 6010B 6010B 6010B 6010B 300.0	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly		
PAHs <sup>5</sup>	ug/l <sup>6</sup>	Quarterly	8270	Quarterly		
Total Petroleum Hydrocarbons (TPH)	ug/l	Quarterly	418.1	Quarterly		
Aromatic Hydrocarbons	,,		00005			
Benzene Ethyl Benzene	ug/l ug/l	Quarterly Quarterly	8260B 8260B	Quarterly Quarterly		
Toluene	ug/l	Quarterly	8260B	Quarterly		

MONITORING AND REPORTING PROGRAM NO. R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

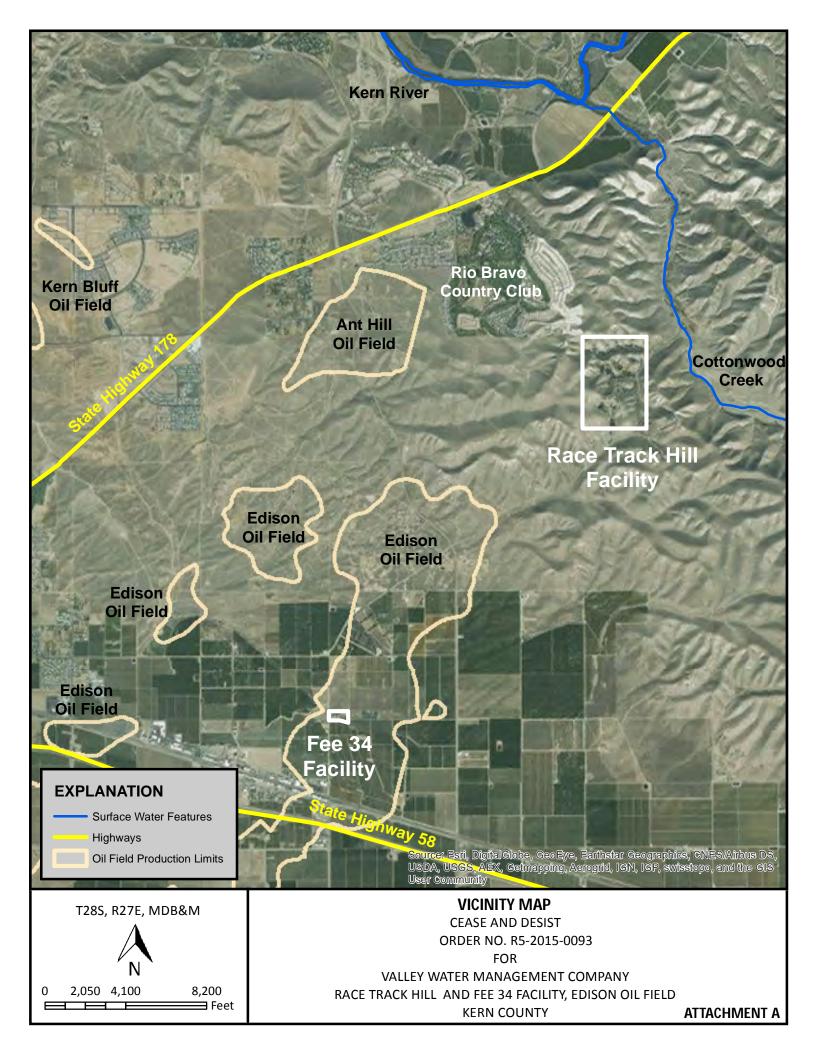
Table 1 - Groundwater and Influent Monitoring					
<u>Parameters</u>	<u>Units</u>	Monitoring Frequency	US EPA or other Method	Reporting Frequency	
M,p-Xylenes o-Xylene	ug/l ug/l	Quarterly Quarterly	8260B 8260B	Quarterly Quarterly	
Stable Isotopes Oxygen ( <sup>18</sup> O) Hydrogen ( <sup>2</sup> H, deuterium [D]	pCi/L <sup>7</sup>	Quarterly Quarterly	900.0 900.0	Quarterly Quarterly	
Radionuclides Radium-226 Radium-228 Gross Alpha particle (excluding radon and uranium)	pCi/L pCi/L pCi/L	Quarterly Quarterly Quarterly	SM <sup>8</sup> 7500-Ra SM 7500-Ra SM 7110	Quarterly Quarterly Quarterly	
Uranium	pCi/L	Quarterly	200.8	Quarterly	
Constituents of Concern					
Lithium Strontium Iron Manganese Antimony	mg/l mg/l mg/l mg/l mg/l	Quarterly Quarterly Quarterly Quarterly Quarterly	200.7 200.7 200.8 200.8 200.8	Quarterly Quarterly Quarterly Quarterly Quarterly	
Arsenic	mg/l	Quarterly	200.8	Quarterly	
Barium	mg/l	Quarterly	200.8	Quarterly	
Beryllium	mg/l	Quarterly	200.8	Quarterly	
Cadmium	mg/l	Quarterly Quarterly	200.8 200.8	Quarterly Quarterly	
Chromium (total)	mg/l	Quarterly	7196A	Quarterly	
Chromium (hexavalent) Cobalt	mg/l	Quarterly	200.8	Quarterly	
Copper	mg/l mg/l	Quarterly	200.8	Quarterly	
Lead	mg/l	Quarterly	200.8	Quarterly	
Mercury	mg/l	Quarterly	7470A	Quarterly	

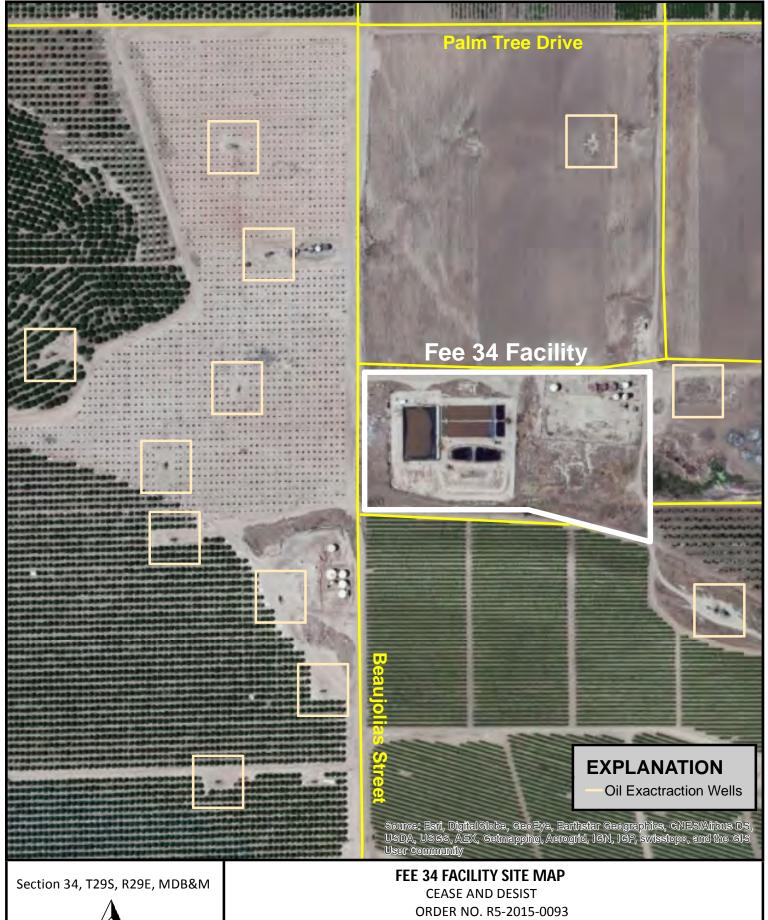
MONITORING AND REPORTING PROGRAM NO. R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

Table 1 - Groundwater and Influent Monitoring						
<u>Parameters</u>	<u>Units</u>	Monitoring Frequency	US EPA or other Method	Reporting Frequency		
Molybdenum	mg/l	Quarterly	200.8	Quarterly		
Nickel	mg/l	Quarterly	200.8	Quarterly		
Selenium	mg/l	Quarterly	200.8	Quarterly		
Silver	mg/l	Quarterly	200.8	Quarterly		
Thallium	mg/l	Quarterly	200.8	Quarterly		
Vanadium	mg/l	Quarterly	200.8	Quarterly		
Zinc	mg/l	Quarterly	200.8	Quarterly		

<sup>&</sup>lt;sup>1</sup> Mean Sea Level

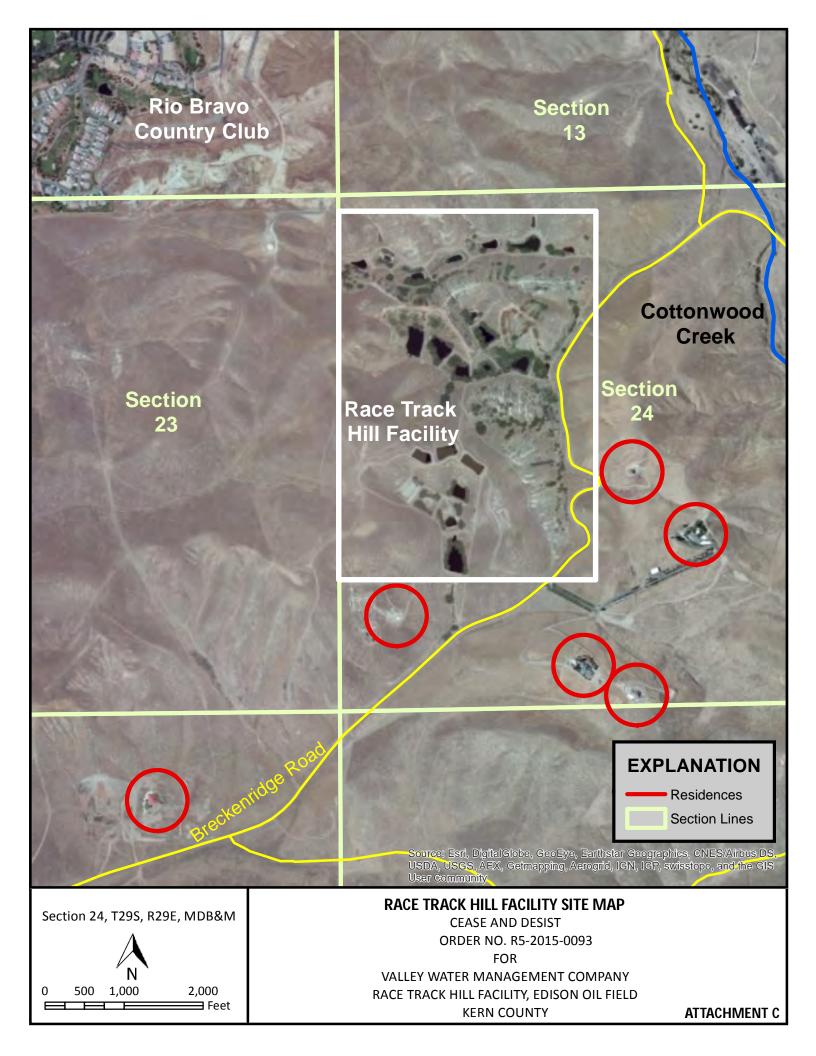
<sup>&</sup>lt;sup>1</sup> Mean Sea Level
<sup>2</sup> Fahrenheit
<sup>3</sup> Micromhos per centimeter
<sup>4</sup> Milligrams per liter
<sup>5</sup> Polycyclic aromatic hydrocarbons
<sup>6</sup> Micrograms per liter
<sup>7</sup> Picocuries per liter
<sup>8</sup> Standard Methods





0 137.5 275 550 Feet CEASE AND DESIST
ORDER NO. R5-2015-0093
FOR
VALLEY WATER MANAGEMENT COMPANY
FEE 34 FACILITY, EDISON OIL FIELD
KERN COUNTY

**ATTACHMENT B** 



# **Attachment D**





#### Central Valley Regional Water Quality Control Board

9 October 2013

#### NOTICE OF VIOLATION

Larry Bright Valley Water Management Company 7500 Meany Avenue Bakersfield, CA 93308 CERTIFIED MAIL 7012 2920 0000 1430 3329

## INSPECTION REPORT - VALLEY WATER MANAGEMENT COMPANY, C-PLANT FACILITY, EDISON OIL FIELD, KERN COUNTY

Central Valley Regional Water Quality Control Board staff (Staff) inspected the wastewater disposal facility at the C-Plant Facility on 18 September 2013. Disposal operations at the facility are regulated by Waste Discharge Requirements Order 92-11037 (WDRs). Staff's comments and observations are presented in the enclosed inspection report.

Staff observed that oil field produced wastewater was being discharged into seven surface impoundments (sumps) at the facility. Two sumps (referred to as wastewater sumps; see Figure 1) appeared to have insufficient freeboard (approximately 1 foot of freeboard) and are in violation of the WDRs. Waste Discharge Specification B.6 of the WDRs states that a minimum of two feet of freeboard needs to be maintained in the sumps. The final sump in the series has recently been covered with netting to preclude wildlife.

Waste Discharge Specification B.1 of the WDRs states that wastewater discharged to sumps cannot exceed the following limits: electrical conductivity (EC), 1,000 micromhos per centimeter ( $\mu$ mhos/cm); chloride, 200 milligrams per liter (mg/L); and boron, 1.0 mg/L. Analytical results provided in Valley Water Management Company's 2013 annual monitoring report indicate that the wastewater contains an EC of 5,700  $\mu$ mhos/cm, a chloride concentration of 1,800 mg/L, and a boron concentration of 14 mg/L, which exceed the salinity limits prescribed in the WDRs. Discharge of high salinity wastewater to sumps at the facility is a violation of the WDRs and poses a threat to groundwater.

KARL E. LONGLEY SCD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

Failure to comply with Waste Discharge Requirements Order 92-11037 can subject you to administrative civil liability (monetary penalties) at a rate of up to \$10 for each gallon discharged to the surface impoundments which exceeds the waste constituent limitations contained in Discharge Specification 1. of Order 92-11037. It is important that you promptly comply with the discharge limitations stipulated in Order 92-11037 to minimize your potential liability pursuant to California Water Code section 13350(e).

If you have any questions, please contact Ryan West at (559) 445-6188 or by email at Ryan.West@waterboards.ca.gov

DANE S. JOHNSON

Senior Engineering Geologist

Done Johnson

PG No. 4239

Enclosure: Inspection Report

cc: Vincent Agusiegbe, CDOG&GR, Bakersfield

0FFICE 92-1103	37	D159073001 WDID 144517	FACILITIES INSI REPOR		PROGRAM 49654 PARTY ID	1/4 PAGE NO. 222263 PLACE ID
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		MEANY AVENUE	· 	SW ¼ OF SECTION		29E, MDB&M
		STREET ADDRESS RSFIELD, CA 93308	**		TREET ADDRESS	
		TY, STATE, ZIP CODE	·	CIT	Y, STATE, ZIP CODE	
		ARRY BRIGHT ARGER CONTACT PERSON			SELL EMERSON	
(661) 4	10-7500	lbright@vw	water.com (	661) 978-0982		wwwater.com
	ONE NO.	E-MAIL ADI	DRESS	TELEPHONE NO.	E-MAIL	ADDRESS
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9/18/2013	<del>_</del> _ <del></del>	/2013 9:30				
IN	SPECTION DATE(S)	INSPECTION	•		THER CONDITIONS	
		O tu	INSPECTION ATTE		amaara@	Nuntorhoards on do
	Scott Moore NAME	Centra	al Valley Water Board COMPANY/AGENCY	(559) 445-5170 TELEPHONE NO.		waterboards.ca.gov -MAIL ADDRESS
Rı	ussell Emerson	Valley \	Water Management Co.	(661) 978-0982		on@vwwater.com
	NAME Mike Toland	· · · · · · · · · · · · · · · · · · ·	CDOGGR	TELEPHONE NO. (661) 334-3662		:-MAIL ADDRESS nd@conservation.ca.gov
	NAME		COMPANY/AGENCY	TELEPHONE NO.		E-MAIL ADDRESS
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### FACILITIES INSPECTION REPORT VALLEY WATER MANAGEMENT COMPANY C-PLANT FACILITY, EDISON OIL FIELD

	<b>FACILITY INF</b>	ORMATION		
Oil field production wastewater disposal faci	lity.			Active
FACILITY DESCRIPTION (e.g., total area in acres, number of waste mar			STATUS	S (active, inactive, closed)
Oil field production wastewater.				-15 Surface Impoundments
WASTE TYPES	•		FAÇILIT	TY CLASSIFICATION
Twenty-seven unlined surface impoundmen	ts and sprinkler in	rigation system.		
DISPOSAL DESCRIPTION (e.g., composting, landfill, surface impoundments)	ent, etc.)			
	BACKGF		·	
The C-Plant Facility (Figure 1) contains sever wastewater. The C-Plant Facility accepts a wastewater per year from several small oil present plan salinity limits for discharges to unlined micromhos per centimeter (µmhos/cm), a characteristic of 14 mg/L. Wastewater from Track Hill Facility for disposal to unlined sur	pproximately 4.5 r producers in the E sumps. The wast ploride concentrati the C-plant Facili	nillion barrels (189 dison Oil Field who ewater contains a ion of 1,800 milligr	million gallons) o ose wastewater do n electrical conduc ams per liter (mg/	f oil field production bes not meet Basin ctivity (EC) of 5,700 L), and a boron
	INSPECTION	I GIS DATA		
GIS Equipment used:			5	
MANUFACTUR	RER	MODEL	SERIAL NO.	DATUM
Description of Measured Point	Latitude	Longitude	Datum	Comments
Centroid of Facility	35.355071	-118.859904	NAD 83	
INSPECTI Describe observations and findings and identify those of identifying the cited violation number within parenthese.  The facility was inspected to observe currently the cited violation of the cited violation number within parenthese.	hat document and refe s following the observ	ation/finding (e.g., Exp	sted in the Inspection osed waste on top dec	SK (V1)).
Photographs were taken to document cond	itions observed (s	ee page 4).		· · ·
Staff observed that oil field produced waste immediate vicinity of the facility is used for the facility (see Figure 1).	ewater was being of farming. It appear	discharged into se red that grapes are	ven sumps at the e being farmed im	facility. Land in the mediately south of
Wastewater enters the facility by means of two oil separation sumps that are covered and contained wastewater coated with cruc gunite-lined sumps (hereafter referred to as 45 feet wide (Photographs 3 and 4). The troops of the wastewater suffreeboard). Both of the wastewater suffreeboard). There are two unlined sumps that is skimmed from wastewater. The two with a thin veneer of crude oil (Photograph shipping sump. Netting was recently consioil (Photograph 6). The shipping sump confide sump.	with netting (Photo de oil. From the o is "wastewater sun wo wastewater su he wastewater. I imps appeared to (hereafter referred o oil sumps were a 5). The last sum tructed over the si ntained wastewate	ograph 2). The oil il separation sump hps") that are each mps are equipped did not observe ar have insufficient for the as "oil sumps") at maximum capact prin the series is goinpping sump to prer coated with some	separation sumpses, the wastewater approximately 12 with built -in skimmy crude oil in the reeboard (approximate) that are used for ity and contained unite-lined and is revent wildlife from	s are gunite-lined enters two 25 feet in length and mers, that when wastewater sumps mately 1 foot of storage of crude oil wastewater coated referred to as the contacting crude
The storm water basin located at the south				
		ON AND OBSE		
were samples concoled during the inspection.	☐ Yes      No	Are sample resu	ilts included in report?	☐ Yes     No
Did discharger collect split samples?	☐ Yes			

# FACILITIES INSPECTION REPORT VALLEY WATER MANAGEMENT COMPANY C-PLANT FACILITY, EDISON OIL FIELD

#### SAMPLE COLLECTION INFORMATION AND OBSERVATIONS

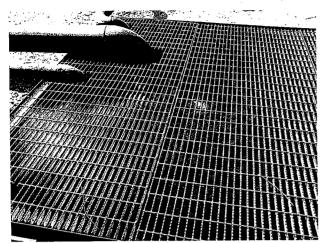
SAMPLE ID	SAMPLE DESCRIPTION/OBSERVATIONS	SAMPLE TIME (hours)	PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/OBSERVATIONS	SAMPLE TIME (hours)	PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/OBSERVATIONS	SAMPLE TIME (hours)	PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/OBSERVATIONS DISCUSSION OF SAMPLING RESULTS	. SAMPLE TIME (hours)	PHOTO NO

### **CONCLUSIONS**

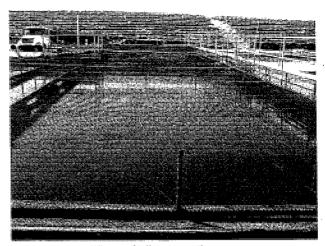
Summarize the conclusions of the inspection(s) below.

- 1. The shipping sump has recently been covered with netting to preclude wildlife. This resolves the Notice of Violation dated 28 June 2012 issued to Valley Water Management Company.
- 2. The two wastewater sumps appeared to have insufficient freeboard (approximately 1 foot) and are in violation of the WDRs. Waste Discharge Specification B.6 of the WDRs states that a minimum of two feet of freeboard needs to be maintained in the sumps.
- 3. Waste Discharge Specification B.1 of the WDRs states that wastewater discharged to sumps cannot exceed the following limits: EC, 1,000 µmhos/cm; chloride, 200 mg/L; and boron, 1.0 mg/L. Analytical results provided in Valley Water Management Company's 2013 annual monitoring report indicate that the wastewater contains an EC of 5,700 µmhos/cm, a chloride concentration of 1,800 mg/L, and a boron concentration of 14 mg/L, which exceed the salinity limits prescribed in the WDRs.
- 4. Discharge of high salinity wastewater to sumps at the facility is a violation of the WDRs and poses a threat to groundwater. The disposal of wastewater to sumps at the facility needs to cease.
- 5. The WDRs are outdated and need to be updated for conformance with current Central Valley Water Board policies, and State regulations and policies.

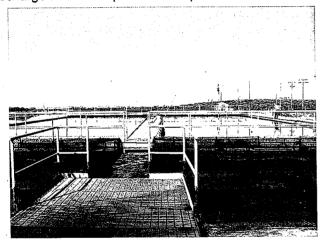
#### **PHOTOGRAPHS**



Photograph 1. – View of incoming wastewater pipes that discharge into the separation sumps.



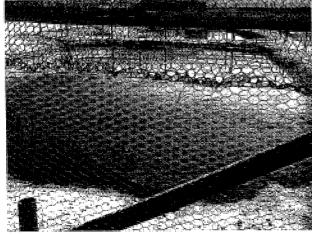
Photograph 2. – View of oil separation sumps.



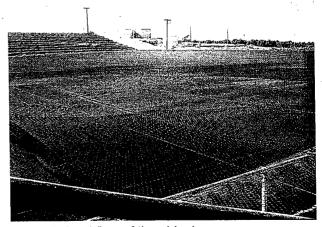
Photograph 3. – View of a separation sumps and wastewater sumps looking west.



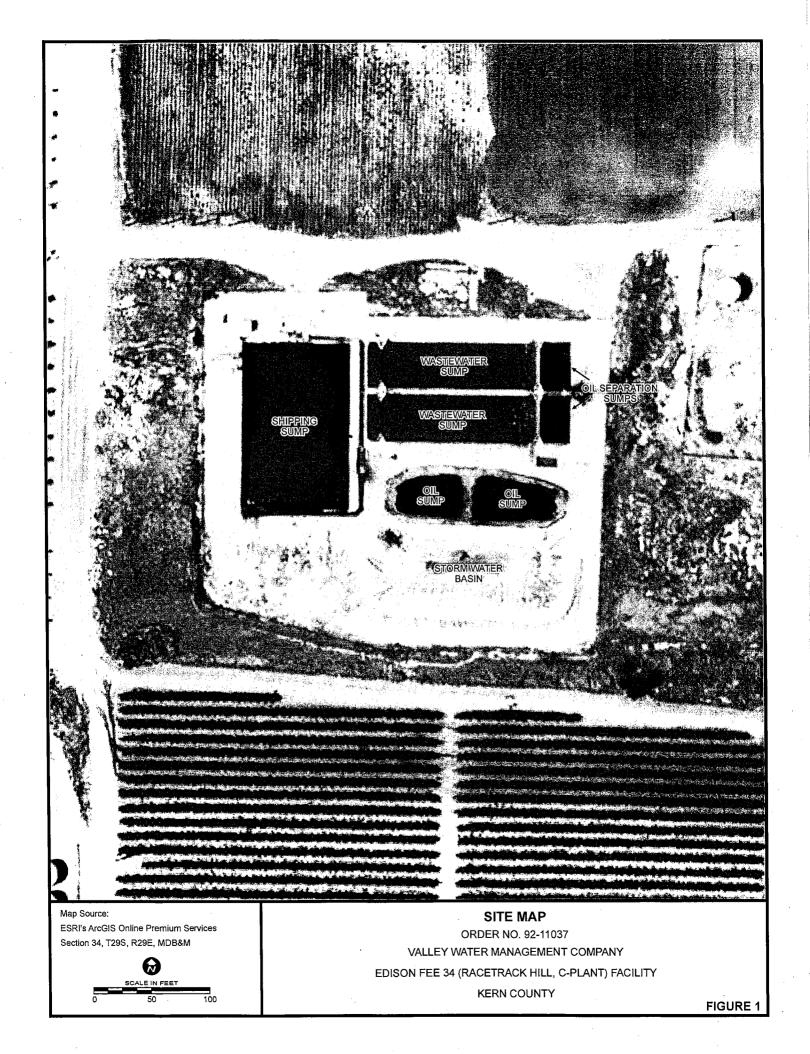
Photograph 4. – View of the wastewater sumps looking southeast.



Photograph 5. – View of the two unlined oil sumps.



Photograph 6. – View of the shipping sump.







#### Central Valley Regional Water Quality Control Board

9 October 2013

#### NOTICE OF VIOLATION

Larry Bright
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

CERTIFIED MAIL 7012 2920 0000 1430 3350

## INSPECTION REPORT – VALLEY WATER MANAGEMENT COMPANY, RACE TRACK HILL FACILITY, EDISON, KERN COUNTY

Central Valley Regional Water Quality Control Board staff (Staff) inspected the wastewater disposal facility at the Race Track Hill Facility on 18 September 2013. Disposal operations at the facility are regulated by Waste Discharge Requirements Resolution 58-349 (WDRs). Staff's comments and observations are presented in the enclosed inspection report.

Twenty-seven surface impoundments (sumps) were observed on the lease that are used for percolation and evaporation of oil field produced wastewater. The "Entry Sump" has recently been covered with netting to preclude wildlife. The sumps and netting appeared to be in satisfactory condition. Freeboard appeared to be adequate in all of the sumps.

A sprinkler irrigation system is used to irrigate a variety of salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Approximately 94 acres of land on the facility are being irrigated. Sprinklers were operating at the time of the inspection. Waste Discharge Requirements Resolution 58-349 states that wastewater discharged or overflowing onto the surface of the ground needs to conform to the following limits: total dissolved solids cannot exceed 1,000 parts per million (ppm), chlorides cannot exceed 150 ppm, and boron cannot exceed 1.0 ppm.

KARL E. LONGLEY SCD, P.E., CHAIR I PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

The wastewater being discharged comes directly from Valley Water Management Company's C-Plant. Analyses of the wastewater at the C-Plant documented the following waste constituent concentrations: electrical conductivity, 5,700 micromhos per centimeter; chloride, 1,800 milligrams per liter (mg/L); and boron, 14 mg/L. The wastewater being sprayed to the ground exceeds the limits permitted by the WDRs. The discharge of wastewater through the sprinkler irrigation system to land is a violation of the WDRs.

Failure to comply with Waste Discharge Requirements Resolution 58-349 can subject you to administrative civil liability (monetary penalties) at a rate up to \$10 for each gallon discharged through the sprinkler system which exceeds the waste constituent limitations contained in Resolved 3.a., b. and c. It is important that you promptly comply with the discharge limitations stipulated in Resolution 58-349 to minimize your potential liability pursuant to California Water Code section 13350(e).

If you have any questions, please contact Ryan West at (559) 445-6188 or by email at Ryan.West@waterboards.ca.gov

DANE S. JOHNSON

Senior Engineering Geologist

PG No. 4239

Enclosure: Inspection Report

cc: Vincent Agusiegbe, CDOG&GR, Bakersfield

Secution Name    Secution   Secut	SB-349  142624  ORDER NO. REC MEASURE ID  PRACTY DESCHASSER NAME  TODO MEANY AVENUE  TREPHONE NO. TEMPS ON THE MEAN ADDRESS  TREET ADDRESS  TREET ADDRESS  TREET ADDRESS  TREET AND TODO MEAN ADDRESS  TREET ADDR	58-349 ORDER NO.	,	AADID .		INSPECTION		PAGE NO.
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CITY, STATE, ZIP CODE  LARRY BRIGHT  DISCHARGER CONTACT PERSON  (661) 410-7500  Ibright@vwwater.com  (661) 978-0982  TELEPHONE NO.  E-MAIL ADDRESS  TELEPHONE NO.  GENERAL INSPECTION INFORMATION  Spection Type:  B Type Compliance Inspection  INSPECTION ATTENDEE(S)  Scott Moore  Central Valley Water Board  COMPANY/AGENCY  TELEPHONE NO.  SCHERAL WEATHER CONDITIONS  INSPECTION ATTENDEE(S)  Scott Moore  Company/AGENCY  TELEPHONE NO.  SMALE  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  RUSSEIL EMERSON  FEMAL ADDRESS  RUSSEIL EMERSON  FEMAL ADDRESS  RUSSEIL EMERSON  INSPECTION ATTENDEE(S)  SCOTT MOORE  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  RUSSEIL EMERSON  INSPECTION SUMMARY  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  RUSSEIL EMERSON  INSPECTION SUMMARY (for CIWQS entry – 500 character maximum)  THE Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a varie igation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  INSPECTION VIOLATIONS SUMMARY (if applicable)  INSPECTION VIOLATIONS SUMMARY (if applicable)  INSPECTION VIOLATIONS OF the WDR violation of wastewater. A sprinkler irrigation system is used to irrigate a varie igation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  entify Violation ID  Violation Type  Violation Description  Violation Description  Violation Description  Violation Description  Gischarge specification of discharge specification of wastewater we elevated EC, chloride, & discharge specification of oround surface.  Journal Advances of the WDR violation of wastewater we elevated EC, chloride, & discharge specification of the WDR violation Description  Violation Description  RUSSELL EMERSON  FEMAL ADDRESS  FEMAL ADDRESS  FEM	CITY, STATE, ZIP CODE  LARRY BRIGHT  DISCHARGER CONTACT PERSON  (661) 410-7500  Binghi@wwwater.com (661) 978-0982  TELEPHONE NO. E-MAIL ADDRESS  TELEPHONE NO. E-MAIL ADDRESS  SENERAL INSPECTION INFORMATION  Specific Type:  B Type Compilance Inspection  Lead Inspector:  R. West  //19/2013 to 09/18/2013  INSPECTION TIME  SSORT MOORE  SCORT MOORE  CENTRAL VALUE BOARD  INSPECTION ATTENDEE(S)  SCORT MOORE  RUSSELE MERSON  FACILITY CONTACT PERSON	,						
LARRY BRIGHT   BUSCHARGER CONTACT PERSON   FACILITY CONTACT PERSON	LARRY BRIGHT DISCHARGER CONTACT PERSON (681) 410-7500   Ibright@wwwater.com (681) 410-7500   Irright@wwwater.com (681) 410-7500   Irright@wwwater.com (681) 410-7500   Irright@wwwater.com (681) 410-7500   Ibright@wwwater.com (681) 410-7500   Ibright@wwater.com (681) 410		BAKER	SFIELD, CA 93308	3		KERN COUN	ITY
DISCHARGER CONTACT PERSON (661) 410-7500   Ibright@wwwater.com (661) 978-0982 remerson@wwater.com TELEPHONE NO. E-MAIL ADDRESS TELEPHONE NO. E-MAIL ADDRESS  SEPECTION INFORMATION  INSPECTION ATTENDEE(S)  SCOTT MOOF C-CENTRAL Valley Water Board (559) 445-5170 smoore@waterboards.ca.g. NAME COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS  RUSSEII Emerson Valley Water Management Co. (661) 978-0982 remerson@wwater.com NAME COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS Mike Toland C-COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS Mike Toland C-COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS MIKE COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS NAME COMPANY/AGENCY TELEPHONE NO. E-MAIL ADDRESS  INSPECTION SUMMARY (for CIWQS entry – 500 character maximum)  THE Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a varie salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the igation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  entify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation per describe violation, and identify section of the WDRs or Water Code violated.  Section of the WDRs or Water Code violated.  Ingetion of the WDRs of Violation Description Section of the WDRs or Water Code violated.	DISCHARGER CONTACT PERSON   Identify to the production   Identify contact person   Identify co		CITY	, STATE, ZIP CODE			CITY, STATE, ZIP C	ODE
Company/Agency   Telephone No.   E-MAIL ADDRESS   Telephone No.	Ibright@ywwater.com   (661) 978-0982   remerson@ywwater.com   TELEPHONE NO   EAMAL ADDRESS   TELEPHONE NO   EAMAL ADDRESS	·						
TELEPHONE NO. E-MAIL ADDRESS  GENERAL INSPECTION INFORMATION  Lead Inspector: R. West    18	TELEPHONE NO.    SEMERAL INSPECTION INFORMATION   E-MAIL ADDRESS   SENDER   SEMERAL INSPECTION INFORMATION   Lead Inspector:   R. West					(004) 070 0000		
GENERAL INSPECTION INFORMATION  INSPECTION DATE(S)  INSPECTION DATE(S)  INSPECTION DATE(S)  INSPECTION DATE(S)  INSPECTION ATTENDEE(S)  Scott Moore  Company/Agency  Company/Agency  Telephore No.  RAME  COMPANY/Agency  Telephore No.  Telephore No.	Separation   Sep	\ <u>-</u> /				<del></del>		
INSPECTION DATE(S)  Scott Moore NAME COMPANY/AGENCY NAME COMPANY/AGENCY COMPANY/AGENCY TELEPHONE NO.  INSPECTION SUMMARY (for CIWQS entry — 500 character maximum)  TINSPECTION SUMMARY (for CIWQS entry — 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a varie salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the WDRs of Water Code violation.  INSPECTION VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation per violation, and identify section of the WDRs or Water Code violation.  INSPECTION Violation ID Violation Type Violation Description  Violation 1953349  NOV Notice of Violation  Notice of Violation  Central Valley Water Board (559) 445-5170 smoore@waterboards.ca.g. 560-1970 smoore	Section Type: B Type Compliance Inspection	TELEPHONE	E NO.					
NAME   COMPANY/AGENCY   TELEPHONE NO.   E-MAIL ADDRESS	10.45 am			GE	NERAL INSPEC	TION INFORMATI	ON	
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INSPECTION ATTENDEE(S)   Scott Moore   Central Valley Water Board   (559) 445-5170   smoore@waterboards.ca.g.     NAME	INSPECTION ATTENDEE(S)  Scott Moore    NAME	/18/2013	to 09/18/2	013 10:4	45 am Clear,	Sunny		
Scott Moore    Name	Scott Moore NAME NAME COMPANY/AGENCY RUSSEII Emerson NAME COMPANY/AGENCY RILEPHONE NO. RAMIA ADDRESS Mike Toland CDOGGR NAME COMPANY/AGENCY RILEPHONE NO. RAMIA ADDRESS Mike Toland CDOGGR NAME COMPANY/AGENCY RILEPHONE NO. RAMIA ADDRESS Mike Toland CDOGGR NAME COMPANY/AGENCY RILEPHONE NO. RAMIA ADDRESS MICHAEL ADDRESS MICHAEL ADDRESS RISPECTION SUMMARY (for CIWQS entry — 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a variet salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  INSPECTION VIOLATIONS SUMMARY (if applicable)  INSPECTION VIOLATIONS OF Water Code violated.  INSPECTION VIOLATIONS OF Water Code violated.  INSPECTION VIOLATIONS OF Water Code violated.  Ingation of wastewater welevated EC, chloride, & discharge specification and identify section of the WDRs of Violation Description  Violation ID  Violation Type Violation Description Section of the WDRs of Violation  Irrigation of wastewater welevated EC, chloride, & discharge specification and boron to ground surface  OTHER VIOLATIONS (if applicable)  MR violations?  NOTHER VIOLATIONS (if applicable)		ECTION DATE(S)	INSPEC	TION TIME	GENE	RAL WEATHER CONDITION	DNS
Scott Moore Central Valley Water Board (559) 445-5170 smoore@waterboards.ca.g. COMPANY/AGENCY TELEPHONE NO. TELEPH	Scott Moore NAME COMPANY/AGENCY Russell Emerson RUSSELL Emerso				INSPECTION	N ATTENDEE(S)		•
Russell Emerson  NAME  Russell Emerson  NAME  COMPANY/AGENCY  Mike Toland  CDOGGR  NAME  COMPANY/AGENCY  Mike Toland  COMPANY/AGENCY  NAME  COMPANY/AGENCY  TELEPHONE NO.  TELEPHONE NO.  TELEPHONE NO.  E-MAIL ADDRESS  michael.toland@conservation.ca.  TELEPHONE NO.  E-MAIL ADDRESS  Michael.toland@conservation.ca.  TELEPHONE NO.  TELEPHONE NO.  E-MAIL ADDRESS  Michael.toland@conservation.ca.  Tellephone No.  E-MAIL	Russell Emerson  Valley Water Management Co.  ROMPANY/AGENCY  TELEPHONE NO.  ROMPANY/ACENCY  TELEPHONE NO.  ROMPANY/AGENCY	Sc	ott Moore	Cent	tral Valley Water Boa	ard (559) 445-5	170 smc	ore@waterboards.ca.go
NAME  COMPANY/AGENCY  Mike Toland  CDOGGR  (661) 334-3662  TELEPHONE NO.  E-MAIL ADDRESS  michael.toland@conservation.ca.  NAME  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  INSPECTION SUMMARY (for CIWQS entry — 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a varies at tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  entify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation pe, describe violation, and identify section of the WDRs or Water Code violated.  Section of the WDR Violation ID Violation Type  Violation Description  Violation Description  Section of the WDR Violated  1 955354  Effluent Violation  Irrigation of wastewater w/ elevated EC, chloride, & discharge specification boron to ground surface  2 393289  NOV  Notice of Violation  Notice of Violation	Mike Totand  CDOGGR NAME  COMPANYIAGENCY  TELEPHONE NO.  (651) 334-3662  TELEPHONE NO.  THE PHONE NO.  THE P							
Mike Toland  NAME  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  INSPECTION SUMMARY (for CIWQS entry — 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution 8-349 (WDRs). There are twenty-seven unlined surface impoundments (sumps) on the facility that are used for excelation and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a varie salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  Pentify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation per, describe violation, and identify section of the WDRs or Water Code violated.  Section of the WDR Violation Description  Violation Type  Violation Description  Violation Description  Section of the WDR Violation Description  Violated  discharge specification 3 (a,b,c)  2 393289  NOV  Notice of Violation  Notice of Violation	Mike Toland  CDOGGR NAME  COMPANY/AGENCY  TELEPHONE NO.  E-MAIL ADDRESS  INSPECTION SUMMARY (for CIWQS entry − 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a variet salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  entify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation pe, describe violation, and identify section of the WDRs or Water Code violated.    Violation ID	Russ	sell Emerson	Valley	Water Managemen			
INSPECTION VIOLATIONS SUMMARY (if applicable) entify VIOLATIONS noted during inspection in table below. For each violation describe violation, and identify section of the WDRs or Water Code violated.  INSPECTION VIOLation Type  Violation ID  Violation Type  Violation Description  Violation Type  Violation Description  Violation Type  Violation Passes  INSPECTION VIOLATIONS  Violation Type  Violation Description  Violation Type Violation Description  Violation System exceeds  Violation ID  Violation Type Violation Of wastewater Welevated EC, chloride, & discharge specification and control to the violation of the wastewater will elevated EC, chloride, & discharge specification and control to the violation of violation of violation of violation of violation to ground surface of violation  Violation ID  Violation Type Violation Description  Violation CEMARIEMENT  EMAIL ADDRESS  EMAIL ADDRESS  EMAIL ADDRESS  EACHOR TRANSIMUM  Interpretation of CIWQS and the violation of the WDR of the WDR violation of wastewater will elevated EC, chloride, & discharge specification and violation to ground surface  Notice of Violation  Notice of Violation	INSPECTION SUMMARY (for CIWQS entry — 500 character maximum)  The Race Track Hill Facility was inspected to determine compliance with Waste Discharge Requirements Resolution and evaporation of oil field production wastewater. A sprinkler irrigation system is used to irrigate a variet salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Wastewater discharged through the rigation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  The previous dentify Violation system exceeds the salinity limits stipulated in the WDRs for discharges onto the surface of the ground.  INSPECTION VIOLATIONS SUMMARY (if applicable)  The previous dentify violation system exceeds the salinity limits at place of the work of th							
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Lead Inspector ID: 139472 Signature: Ryan K. West Date: 10/8,		he Race Ti 8-349 (WD ercolation of salt tolera rigation systematics of salt tolera rigation systematic	INSPE  Track Hill Fac DRs). There and evapora ant vegetation stem exceed  TIONS noted du eviolation, and in  Violation ID 955354 393289	Ility was inspected are twenty-severtion of oil field print to facilitate evaluated in the salinity limit.  INSPECTION INSPECTION IN THE SECTION OF THE SECT	ed to determine con unlined surface in oduction wasteward potranspiration of its stipulated in the oduction wasteward potranspiration of its stipulated in the oduction wasteward potranspiration of its stipulated in the oduction with the oduction wasteward waste of the oduction of the o	mpliance with Waste mpoundments (sumpter. A sprinkler irrigate the wastewater. Waste WDRs for discharge Violation Description of Wastewater W/ elevated found surface Violation	character maxed by the property of the propert	uirements Resolution that are used for sed to irrigate a variety rged through the ce of the ground.  Section of the WDRs Violated discharge specification r 3 (a,b,c)
Inspection Tracking Information Reviewed by: (1) (2) (3) (RKW) 139472	Inspection Tracking Information Reviewed by: (1) (2) (3) (RKW) 139472	he Race Ti 8-349 (WD ercolation of salt tolera rigation systematify VIOLA type, describe abel 41 42 43 44 45 66  SMR violation File Review violation Lead Inspec	INSPE Track Hill Factors. There and evaporal ant vegetation stem exceed to violation, and in violation, and in violation, and in violation. The violation is violation in violation. The violation is violation in violation. The violation is violation in violation. The violation is violation is violation is violation. The violation is violation is violation is violation. The violation is violation is violation is violation is violation is violation. The violation is violation is violation is violation is violation	Ility was inspected are twenty-sever tion of oil field print to facilitate evants the salinity limit.  INSPECTION INSPECTION IN THE SECTION OF THE SECTION O	ed to determine con unlined surface in oduction wasteward potranspiration of its stipulated in the oduction wasteward potranspiration of its stipulated in the oduction wasteward potranspiration of its stipulated in the oduction with the oduction wasteward waste of the oduction of the o	mpliance with Waste mpoundments (sumpter. A sprinkler irrigate the wastewater. Waste WDRs for discharge Violation Description of Wastewater W/ elevated found surface Violation	character maxed by the property of the propert	uirements Resolution that are used for sed to irrigate a variety rged through the ce of the ground.  Section of the WDRs Violated discharge specification is 3 (a,b,c)

FACILITIES INSPECTION REPORT
VALLEY WATER MANAGEMENT COMPANY
RACE TRACK HILL FACILITY, EDISON OIL FIELD

	FACILITY IN	-ORMATION		
Dil field production wastewater disposal t	facility.		·	Active
ACILITY DESCRIPTION (e.g., total area in acres, number of waste	e management units, etc.)		STATUS (	active, inactive, closed)
Dil field production wastewater.	· · · · · · · · · · · · · · · · · · ·			5 Surface Impoundments
/ASTE TYPES			FACILITY	CLASSIFICATION
wenty-seven unlined surface impoundn		rrigation system.		
SPOSAL DESCRIPTION (e.g., composting, landfill, surface important	undment, etc.)			
	BACKG	ROUND		
The Race Track Hill Facility (Figure 1) collisposal of wastewater. The wastewater Edison Oil Field, is delivered to the facility. The million barrels (189 million gallons) of Edison Oil Field whose wastewater does wastewater contains an electrical conduction.	<ul> <li>collected at Valley</li> <li>by pipeline for display</li> <li>f oil field production</li> <li>not meet Basin Plate</li> <li>ctivity of 5,700 micro</li> </ul>	Water Management oosal. The C-Plant wastewater per year n salinity limits for outper centimet	nt Company's C-Pla : Facility accepts ap ar from several sma discharges to unline	nt Facility in the proximately Il oil producers in the d sumps. The
	INSPECTIO	N GIS DATA		
GIS Equipment used:				
MANUFAC	CTURER	MODEL	SERIAL NO.	DATUM
Description of Measured Point	Latitude	Longitude	Datum	Comments
entroid of Facility	35.392863	-118.821173	NAD 83	
		·		
There are twenty-seven unlined sumps of production wastewater. Wastewater is grecently constructed over the "Entry Sun A vacuum truck operator was on-site cle Mr. Emerson (Valley Water Management of regular facility maintenance. Crude of few of the sumps did not contain wastew A sprinkler irrigation system is used to in the wastewater. Approximately 94 acre operating at the time of the inspection (Facility Maintenance)	on the facility that ar gravity fed from one np" to prevent wildlit eaning crude oil out at Company) stated il was not observed vater (Photograph 6 rigate a variety of sa s of land on the faci Photograph 4).	re used for percolate sump to the next in fee from contacting contacting to the north-east contact vacuum trucks in the remainder or all tolerant vegetations are irrigated (see	n a downhill series.  crude oil in the sumporner of Sump 2 (Phare used on a frequent of the sumps (Photogon to facilitate evapore Figure 1). Sprink	Netting was o (Photograph 1). otograph 2). uent basis as part graphs 3 and 5). A otranspiration of
	NG INFORMATION			☐ Yes   No
Were samples collected during the inspection?	☐ Yes ☒ No ☐ Yes ☒ No	Are sample resu	Its included in report?	T1 109 EX 140
Did discharger collect split samples?	OLLECTION INFOR		SEB/VATIONS	
SAMPLE C	OLLEGIION INFOR	VIAIN I IOIA WIND OF	PELIZAKI IDING	
SAMPLE ID	SAMPLE DESCRIPTION/C	BSERVATIONS	SAMPLE TII	ME (hours) PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/C	DBSERVATIONS	SAMPLE TI	ME (hours) PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/O	DBSERVATIONS	SAMPLE TI	ME (hours) PHOTO NO
SAMPLE ID	SAMPLE DESCRIPTION/O	DBSERVATIONS	SAMPLE TI	ME (hours) PHOTO N

# FACILITIES INSPECTION REPORT VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY, EDISON OIL FIELD

#### **DISCUSSION OF SAMPLING RESULTS**

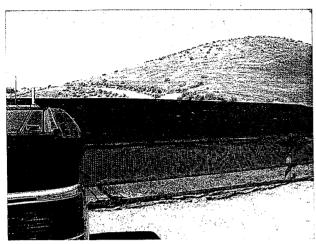
Discuss sampling results (e.g., discuss whether sampling results show compliance with WDRs).

#### **CONCLUSIONS**

Summarize the conclusions of the inspection(s) below.

- 1. The "Entry Sump" has recently been covered with netting to preclude wildlife. This resolves the Notice of Violation dated 10 July 2012 issued to Valley Water Management Company.
- 2. A sprinkler irrigation system is used to irrigate a variety of salt tolerant vegetation to facilitate evapotranspiration of the wastewater. Approximately 94 acres of land on the facility are irrigated. Sprinklers were operating at the time of the inspection. Waste Discharge Requirements Resolution 58-349 states that wastewater discharged or overflowing onto the surface of the ground, or into natural drainage channels or into unlined sumps other than those constructed in Section 24, T29S, R29E, MDB&M shall conform to the following criteria: total dissolved solids cannot exceed 1,000 parts per million (ppm), chlorides cannot exceed 150 ppm, and boron cannot exceed 1.0 ppm. Facility wastewater exceeds these criteria.
- 3. The disposal of wastewater through the sprinkler irrigation system is in violation of the WDRs and needs to cease.
- 4. The WDRs are outdated and need to be updated for conformance with current Central Valley Water Board policies, and State regulations and policies.

### **PHOTOGRAPHS**



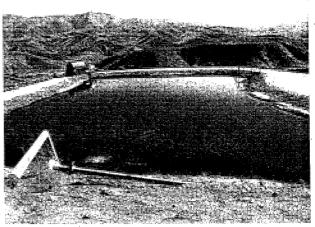
Photograph 1. – View of netting recently constructed over the "Entry Sump."



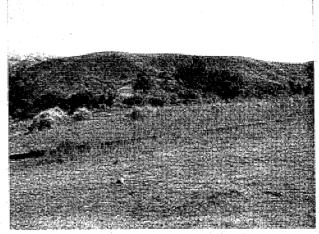
Photograph 3. – View of a few sumps on the northern portion of the facility.



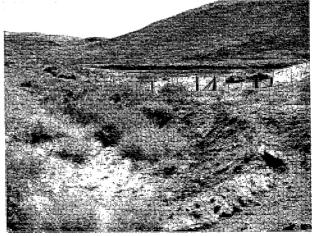
Photograph 5. – View of the elevated berm on Sump 26.



Photograph 2. – View of vacuum truck removing a small amount of crude oil in NE corner of Sump 2.



Photograph 4. – View of a sprinklers irrigating an area on the northern portion of the facility.



Photograph 6. – View of the last sump in the series (Sump 27). Breckenridge road in the background.

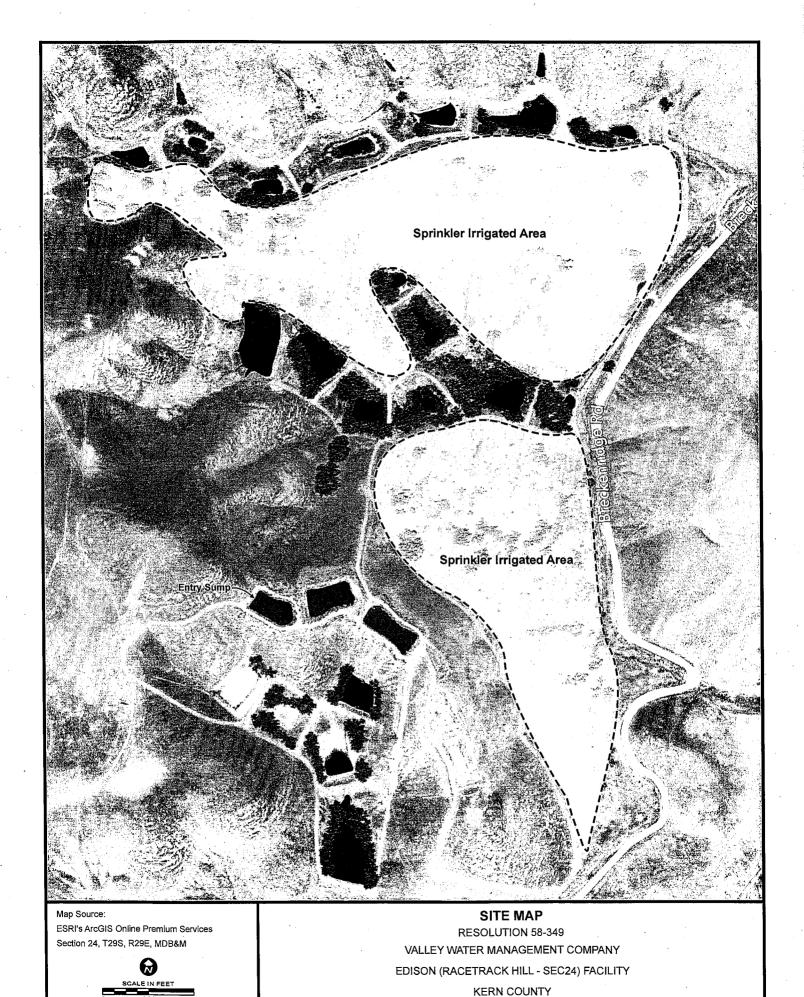


FIGURE 1