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Counsel for Petitioner
VALLEY WATER MANAGEMENT COMPANY



BEFORE THE

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

In the Matter of the Petition by VALLEY WATER MANAGEMENT COMPANY for Review of Action and Failure to Act by the California Regional Water Quality Control Board, Central Valley Region, in issuing July 30, 2015 Water Code Section 13301 Cease and Desist Order.	 PETITION FOR REVIEW; PRELIMINARY POINTS AND AUTHORITIES IN SUPPORT OF PETITION FOR REVIEW; REQUEST FOR ABEYANCE. [WATER CODE §13320]
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In accordance with section 13320 of the Water Code, Petitioner VALLEY WATER MANAGEMENT COMPANY ("Valley Water") hereby petitions the STATE WATER RESOURCES CONTROL BOARD ("State Water Board") to review the action and failure to act by the California Regional Water Quality Control Board for the Central Valley Region ("Regional Board") in issuing a Cease and Desist Order pursuant to Water Code section 13301 ("CDO") on 30 July 2015. A copy of the CDO is attached hereto as Exhibit A.

A summary of the basis for Valley Water's Petition for Review and a preliminary statement of points and authorities are set forth in this Petition in accordance with Title 23, California Code of Regulations, section 2050(a). Valley Water reserves the right, as necessary, to file supplemental points and authorities in support of its Petition for Review once the administrative record becomes available.¹

¹ The State Water Board's regulations require submission of a memorandum of points and authorities in support of a petition, and this document is intended to serve as a preliminary memorandum. However, it is impossible to prepare a thorough memorandum or a memorandum that is entirely useful to the reviewer in the absence of the complete administrative record, which is not yet available. In addition, Valley Water incorporates by reference its arguments made and evidence presented before the Regional Board in its Opening and Rebuttal briefs and at the hearing.

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1. NAME, ADDRESS, TELEPHONE NUMBER, AND EMAIL ADDRESS OF THE PETITIONER:

Valley Water currently owns and operates the Fee 34 Facility and the Race Track Hill Facility in the Edison Oil Field area in Kern County (together referred to as "Facilities"). The name and address of the Petitioner is as follows:

Valley Water Management Company c/o Mr. Larry Bright, Manager 7500 Meany Avenue Bakersfield, California 93308 Telephone: (661) 410-7500 Email: lbright@vwwater.com

However, all materials in connection with this Petition for Review should also be provided to Valley Water's counsel at the following address:

Melissa A. Thorme Downey Brand LLP 621 Capitol Mall, 18th Floor Sacramento, California 95814 Telephone: (916) 520-5376 Email: mthorme@downeybrand.com

2. THE SPECIFIC ACTION OF THE REGIONAL BOARD WHICH THE STATE WATER BOARD IS REQUESTED TO REVIEW:

Valley Water seeks review of the action and failure to act of the Regional Board in connection with the issuance of the CDO. Specifically, the CDO requires excessive further investigation and reporting on tight timeframes, the legality and reasonableness of which Valley Water challenges herein.

3. THE DATE ON WHICH THE REGIONAL BOARD ACTED:

The Regional Board issued the CDO on July 30, 2015.

4. A FULL AND COMPLETE STATEMENT OF REASONS THE ACTION OR FAILURE TO ACT WAS INAPPROPRIATE OR IMPROPER:

The CDO was adopted at a hearing where insufficient time was allowed for the parties to fully present all of the testimony and evidence, thereby violating due process. In addition, the CDO was adopted with unreasonable timeframes and requirements contrary to the requirements of the California Water Code, and without adequate findings and evidence as required by law.

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5. THE MANNER IN WHICH THE PETITIONER IS AGGRIEVED:

The CDO requires Valley Water to undertake costly, time-consuming actions, including monitoring, studies, and reports, within potentially infeasible timeframes. The cost of compliance and the potential impossibility of meeting the deadlines contained in the CDO may preclude Valley Water from timely compliance, which in turn could expose Valley Water to unnecessary and unwarranted enforcement actions, including further enforcement orders and civil penalties.

6. THE SPECIFIC ACTION BY THE STATE WATER BOARD OR REGIONAL BOARD WHICH PETITIONER REQUESTS:

Valley Water seeks an Order by the State Water Board invalidating and/or remanding the CDO to the Regional Board, and requests that the State Water Board provide direction to the Regional Board consistent with the arguments stated or incorporated in this Petition. Specifically, Valley Water requests that the State Water Board direct Regional Board staff to:

- A. Extend the timelines for compliance with the Order by a reasonable amount of time as needed and approved under the submitted Work Plans;
- B. Amend the monitoring and reporting requirements to be more reasonable; and
- C. Amend the findings that are factually inaccurate and not proven at the CDO hearing.

7. A STATEMENT OF POINTS AND AUTHORITIES IN SUPPORT OF LEGAL ISSUES RAISED IN THE PETITION:

Valley Water's preliminary statement of points and authorities are set forth herein.

However, Valley Water may supplement this statement upon receipt and review of the administrative record or upon the receipt of additional information, and incorporates by reference its previous briefs filed with the Regional Board prior to the CDO hearing. In sum, Valley Water asserts that provisions of the CDO are inconsistent with the law and otherwise inappropriate because they are infeasible and unreasonable.²

² Vollar, Water also

² Valley Water also takes issue with many of the factual allegations contained in the CDO, and reserves the right to challenge those findings here and in any future order or enforcement action.

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The Regional Board's Issuance of the CDO Was Unreasonable in A. Contravention of Water Code section 13000.

The California Legislature has found and declared that activities affecting water quality "shall be regulated to attain the highest water quality which is reasonable, considering all demands being made and to be made on those waters and the total values involved, beneficial and detrimental, economic and social, tangible and intangible." Water Code § 13000 (emphasis added). This section of the Water Code sets State policy and imposes an overriding requirement on the Regional Boards that all orders be reasonable considering all circumstances.

Here, the scope of the investigations and the deadlines to meet the full list of requirements contained in the CDO may not be reasonable, considering all of the related circumstances. As discussed in Section 4, supra, the Regional Board's CDO sets deadlines for compliance that may be unattainable and unreasonable. Deadlines that cannot be met are inherently unreasonable, considering all of the related circumstances.

Many of the requirements contained in the CDO are also unreasonable because they are unnecessary. Prior to its receipt of the CDO, Valley Water voluntarily pursued investigations at the Facilities in an effort to both hasten the analyses and to work cooperatively with the Regional Board. Discounting Valley Water's demonstrated diligence and commitment to continue in this cooperative manner, the Regional Board issued the CDO.

Valley Water had initially suggested wholly voluntary activities, or alternatively the issuance of a 13267 Order in lieu of a proposed Cleanup and Abatement Order, before Valley Water began its voluntary investigation in earnest to determine whether releases had in fact occurred at the Facilities. On a voluntary basis, Valley Water submitted a work plan for Phase 1 investigations to the Regional Board staff. This work plan sought to determine whether releases occurred, and recognized that additional investigations, site characterization, and evaluation of remedial alternatives (e.g., Phases 2 and 3) might be required depending on the results of Phase 1. The Regional Board approved this work plan, and Valley Water committed to voluntarily conduct all necessary work, as required, in a phased approach and in coordination with Regional Board staff.

Nevertheless, the Regional Board issued a 13267 Order, which was appealed to the State Water Board because it contained an unattainable and unreasonable January 15, 2015 investigation completion deadline.

In light of the circumstances here — namely, Valley Water's ongoing commitment to conduct the necessary investigations and to fully cooperate with the Regional Board — the additional oversight, strict deadlines, and overly inclusive monitoring requirements contained in the CDO are unreasonable under Water Code section 13000. The deadlines are arbitrary and do nothing to improve the investigation, but rather serve to increase the likelihood that Valley Water may be held liable for violations of the CDO in the future. In addition, the monitoring requirements should not include constituents that have been demonstrated to not occur in concentrations of regulatory concern as these requirements merely increase the costs without adding useful information.

The State Water Board's 2010 Enforcement Policy recognizes that "[t]here is a point [] at which [the] cooperative approach should make way for a more forceful approach." Given the fact that cooperation between Valley Water and the Regional Board had not broken down and Valley Water was timely proceeding with the needed investigations, the deadlines and requirements imposed by the CDO cannot be considered reasonable under California Water Code section 13000.

B. Many of the Findings Contained in the CDO Lack Evidentiary Support or Contradict the Evidence Presented at the Hearing.

Although Valley Water pointed out the fact that several of the findings lacked evidentiary support or contradicted the evidence presented by Valley Water prior to or at the July 30th hearing on the CDO, those findings were not modified. The following provides examples, but is not a comprehensive list of all findings suffering from this legal and factual infirmity:³

• Pg. 3, Finding 9 – The CDO states that "The Race Track Hill Facility is located on 338.4 acres in the western half of Section 24..." Valley Water provided evidence to demonstrate that this statement was inaccurate, yet the statement was not changed. See Exhibit 78 (property consists of "The Northwest quarter and the North half of

³ Valley Water provided a redline markup of the CDO that raised issues with many of the Findings in the CDO. Several of those findings were modified, but others remained and continue to be objectionable. Valley Water incorporates those objections herein.

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the Southwest quarter of Section 24..."); Exhibit 31 at p. 2, ¶ 6 ("The Race Track Hill Facility sits on a 240 acre property...").

- Pg. 7, Finding 33 The CDO states that "The apparent direction of groundwater flow beneath the Racetrack Hill Facility is toward residential water supply wells immediately to the southwest and towards Edison and Bakersfield, five to ten miles to the southwest." Evidence submitted in writing and at the hearing demonstrated that this finding is incorrect and groundwater is actually moving to the northnorthwest. See Exhibit 32 at p. 10, and Figure 7; Testimony of Dr. Ken Schmidt (July 30, 2015).
- Pg. 7, Findings 32, 33, and 39 The CDO at Finding 32 states that "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." Finding 34 states: "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." The relevant portion of Finding 39 states "the Central Valley Water Board finds that a discharge of waste in violation of the Basin Plan has polluted groundwater." Neither the evidence nor the testimony at the hearing supported these Findings. In fact, there was factual evidence and legal argument supporting the fact that there is not a condition of pollution at the site since the site and the activities thereon have been permitted by the Regional Board since the late 1950s/early 1960s, and the condition of the groundwater below the facility was the baseline as of 1968, which was higher than the later adopted Basin Plan limitations. See Exhibit 32, p. 19; Exhibit 85, p. 6; Hearing Testimony by Valley Water's experts and counsel (July 30, 2015).
- Pg. 9, Finding 42 The CDO states "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..." The hearing only took place on 30 July 2015, not 31 July 2015. Therefore, this Finding is inaccurate and should have been corrected prior to finalization of the CDO.

C. The CDO Lacks Adequate Findings and Evidence.

Most all of the findings in the CDO presume degradation has occurred that is causing adverse impacts to existing beneficial uses and that discharges to surface water have occurred when no evidence was submitted to support these allegations. A decision of a State agency, such as the Regional Board, must be in writing, and include a statement of the factual and legal basis for each decision. (Gov. Code, §11425.10(a)(6); §11425.50(a).) The agency must undertake a detailed analysis of the evidence in the record and the applicable legal factors or standards, and must set

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forth its determinations in writing to make clear how it undertook its analysis and reached its final conclusions. (Id.) Thus, findings in any order must "bridge the analytical gap between the raw evidence and ultimate decision or order." (Topanga Assn. for a Scenic Community v. County of Los Angeles, 11 Cal.3d 506, 515 (1974).)

The Regional Board was required to adequately consider all relevant factors and evidence, and demonstrate a rational connection between those factors/evidence, the choices made, and the purposes of the enabling statutes. (See California Hotel & Motel Ass'n v. Industrial Welfare Comm., 25 Cal.3d 200, 212 (1979).) The level of detail that must be included in the Regional Board's consideration of the statutorily mandated factors is governed by a rule of reason. However, it must be reasonably clear from the Order that the Regional Board addressed all available evidence and each of the mandatory factors and traveled the "analytical route" contemplated under Topanga. (See Department of Corrections v. State Personnel Board, 59 Cal. App. 4th 131, 151 (1997); City of Carmel by the Sea v. Bd. of Supervisors, 71 Cal. App. 3d 84, 93 (1977) (held written findings of fact were insufficient as a matter of law because they were merely a recitation of the statutory language).)

Further, specific requirements regarding the factual basis must be followed, including "a concise and explicit statement of the underlying facts of record that support the decision." (Gov't Code §11425.50(b); applicable through 23 C.C.R. §648(b).) The Regional Board's CDO fails to meet these requirements. Without the requisite analysis and a transparent citation to the evidence relied upon and the analytical route followed, the Regional Board violated the requirements needed for a valid final decision. "[T]he agency which renders the challenged decision must set forth findings to bridge the analytic gap between the raw evidence and ultimate decision or order." (Environmental Protection Information Center v. California Dept. of Forestry & Fire Protection 44 Cal.4th 459, 516 (2008).) While the findings need not be "extensive or detailed," "mere conclusory findings without reference to the record are inadequate." (Id. at pp. 516-517 (emphasis added).)

The level of detail included in the Regional Board's CDO fails to indicate a true consideration of the evidence and the factors required by statute and under the Enforcement Policy,

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and fails to clearly demonstrate the "analytical route" traveled in making its ultimate decision. (See Department of Corrections, supra at 151.) It was insufficient for the Regional Board to rely upon unsubstantiated findings without supporting evidence. The Regional Board is required to make findings based on evidence in the record and may not make findings without supporting evidence. (See City of Carmel-by-the-Sea, supra, at 93; see also accord Cal. Code Civ. Proc. §1094.5(b)(defining "abuse of discretion" where "the respondent [Regional Board] has not proceeded in the manner required by law, the order or decision is not supported by the findings, or the findings are not supported by the evidence.").) Since there was inadequate evidence of contamination, pollution, or nuisance affecting actual existing beneficial uses, the CDO's findings to this effect were unsupported.

As set forth in Valley Water's Objections to the Prosecution Team's submissions prior to the hearing on the CDO, the Prosecution Team failed to support its statements with evidence, failed to appropriately designate expert witnesses to provide any opinions on degradation or necessary corrective actions, and failed to prove imminent harm to either the groundwater basins, soils, or local surface waters that would justify the imposition of the proposed CDO. (Water Code §13001.) Since the Prosecution Team failed to meet its burden, the adoption of a CDO based on the Prosecution Team's allegations should have been rejected. Since the Regional Board adopted the findings in the proposed CDO into the final version almost verbatim, and failed to cite evidence to support those findings, the CDO represents a violation of law and an abuse of discretion that should be overturned and remanded.

A STATEMENT THAT THE PETITION HAS BEEN SENT TO THE REGIONAL BOARD AND TO THE DISCHARGER, IF NOT THE PETITIONER:

A true and correct copy of this Petition was mailed by First Class Mail on 28 August 2015 to the Regional Board at the following address:

Pamela C. Creedon **Executive Officer** California Regional Water Quality Control Board Central Valley Region 11020 Sun Center Drive, #200 Rancho Cordova, California 95670-6114

Since the Petitioner in this case is the recipient of the CDO, a copy was not sent to the recipient.

9. A STATEMENT THAT THE SUBSTANTIVE ISSUES OR OBJECTIONS RAISED IN THE PETITION WERE RAISED BEFORE THE REGIONAL BOARD:

Valley Water expressed its concerns about the CDO's findings, requirements, and compressed schedules and, therefore, raised the substantive issues or objections contained in this Petition to the Regional Board prior to issuance of the CDO.

10. REQUEST TO PUT PETITION IN ABEYANCE:

To allow the opportunity for resolution of these matters and further discussion and exchanges between the Petitioner and the Regional Board, Valley Water requests that this Petition for Review be placed in abeyance for two years, until August 28, 2017.

Dated: August 28, 2015

DOWNEY BRAND LLP

Respectfully Submitted,

Melissa A. Thorme

Special Counsel to

VALLEY WATER MANAGEMENT COMPANY

1418676.1

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.
- 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

[&]quot;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.

[&]quot;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>	Limitation Value:	<u>Limitation Value:</u>
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:

	Units:	1992 Value	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,³ contamination or nuisance⁴; 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

³ "'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).

⁴ "'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.5

- 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.

⁵ Avers, 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:

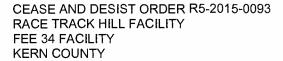
In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical 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;
 - 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 seg. (Title 27);
 - b. 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:
 - a. 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;

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- 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:
 - a. 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;
 - 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:
 - a. 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*⁶ 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

⁶ 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:

a. 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.

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- 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 quarterly 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:

MONITORING AND REPORTING PROGRAM R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY 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 long-term 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 http://geotracker.swrcb.ca.gov. 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:

MONITORING AND REPORTING PROGRAM R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY 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.

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



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 ¹	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/l⁴ umhos/cm mg/l	Quarterly Quarterly Quarterly	160.1 120.1 6010B	Quarterly Quarterly Quarterly
Standard Minerals				
Alkalinity as CaCO3 Bicarbonate Alkalinity as	mg/l	Quarterly	310.1	Quarterly
CaCO3	mg/l	Quarterly	310.1	Quarterly
Carbonate Alkalinity as CaCO3	mg/l	Quarterly	310.1	Quarterly
Hydroxide Alkalinity as CaCO3	mg/l	Quarterly	310.1	Quarterly
Sulfate , dissolved	mg/l	Quarterly	300.0	Quarterly
Nitrate-N, dissolved	mg/l	Quarterly Quarterly	300.0 6010B	Quarterly Quarterly
Calcium, dissolved Magnesium, dissolved	mg/l mg/l	Quarterly	6010B	Quarterly
Sodium, dissolved	mg/l	Quarterly	6010B	Quarterly
Potassium	mg/l	Quarterly	6010B	Quarterly
Chloride	mg/l	Quarterly	300.0	Quarterly
PAHs ⁵	ug/l ⁶	Quarterly	8270	Quarterly
Total Petroleum Hydrocarbons (TPH)	ug/l	Quarterly	418.1	Quarterly
Aromatic Hydrocarbons	_			
Benzene Ethyl Benzene	ug/l	Quarterly Quarterly	8260B 8260B	Quarterly Quarterly
Ethyl Benzene Toluene	ug/l ug/l	Quarterly	8260B	Quarterly

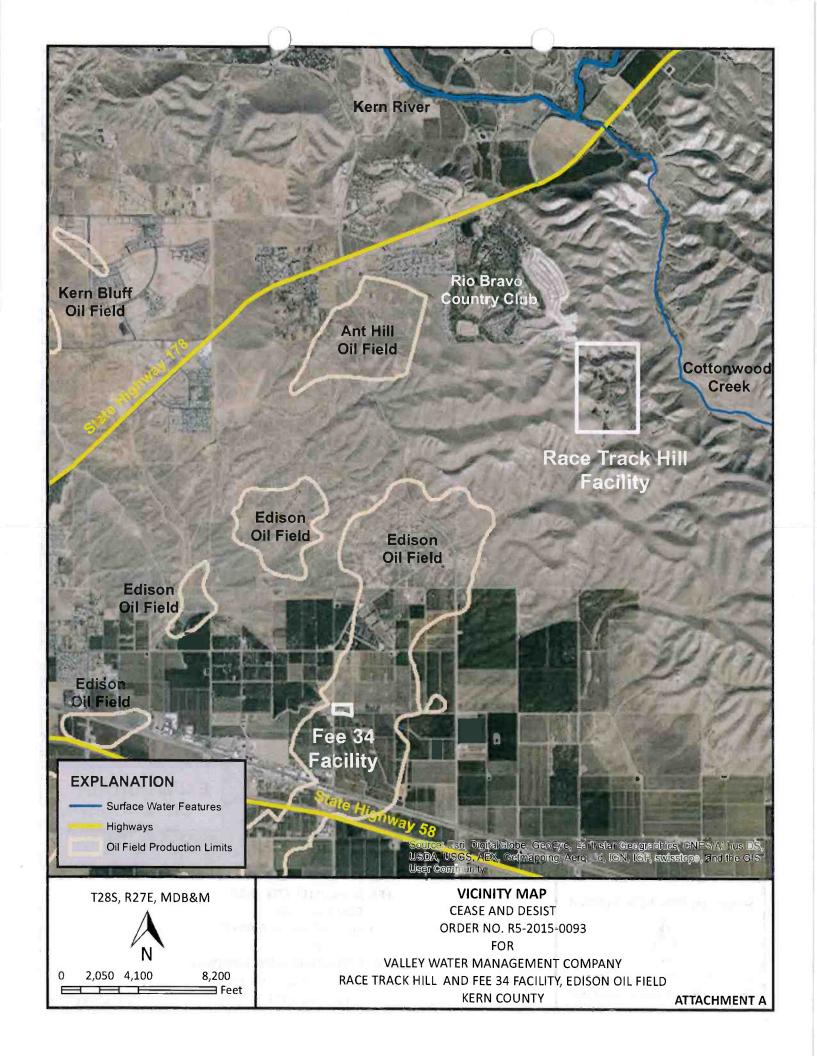
MONITORING AND REPORTING PROGRAM NO. R5-2015-0093 VALLEY WATER MANAGEMENT COMPANY RACE TRACK HILL FACILITY FEE 34 FACILITY KERN COUNTY

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 (¹⁸ O) Hydrogen (² H, deuterium [D]	pCi/L ⁷	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 ⁸ 7500-Ra SM 7500-Ra SM 7110	Quarterly Quarterly Quarterly
Uranium	pCi/L	Quarterly	200.8	Quarterly
Constituents of Concern				
Lithium	mg/l	Quarterly	200.7	Quarterly
Strontium	mg/l	Quarterly	200.7	Quarterly
Iron Manganese	mg/l mg/l	Quarterly Quarterly	200.8 200.8	Quarterly Quarterly
Antimony	mg/l	Quarterly	200.8	Quarterly
Arsenic	mg/l	Quarterly	200.8	Quarterly
Barium	mg/i	Quarterly	200.8	Quarterly
Beryllium	mg/l	Quarterly	200.8	Quarterly
Cadmium	mg/l	Quarterly	200.8	Quarterly
Chromium (total)	mg/l	Quarterly	200.8	Quarterly
Chromium (hexavalent)	mg/l	Quarterly	7196A	Quarterly
Cobalt	mg/l	Quarterly	200.8	Quarterly
Copper	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

Mean Sea Level
 Fahrenheit
 Micromhos per centimeter
 Milligrams per liter
 Polycyclic aromatic hydrocarbons
 Micrograms per liter
 Picocuries per liter
 Standard Methods

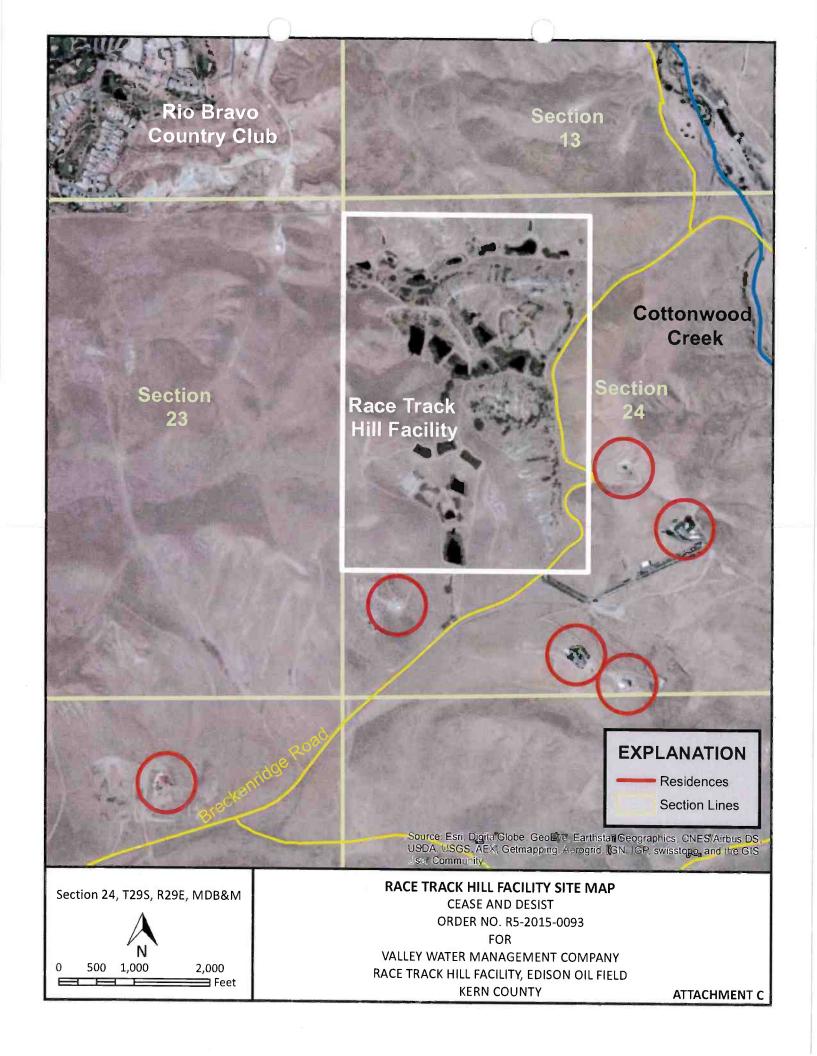




KERN COUNTY

Feet

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 (µmhos/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 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. 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

Valley Water Management Combany C-Plant Facility, Edison Oil Field Kern County

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

PG No. 4239

Enclosure: Inspection Report

cc: Vincent Agusiegbe, CDOG&GR, Bakersfield

5F	5D	159073001			NON-15	1/4
OFFICE			ACILITIES INSF		PROGRAM	PAGE NO.
92-1103		144517	REPORT	·	<u>49654</u>	222263
ORDER NO	D. REG	G MEASURE ID			PARTY ID	PLACE ID
. V	ALLEY WATER	MANAGEMENT COM	PANY	EDISO	N, C-PLANT FACIL	TY
		SCHARGER NAME			FACILITY NAME	
		MEANY AVENUE	· · · · · · · · · · · · · · · · · · ·	SW ¼ OF SECT	ΓΙΟΝ 34, T29S, R29	E, MDB&M
		SFIELD, CA 93308		٠ .	STREET ADDRESS KERN COUNTY	
		, STATE, ZIP CODE	<u> </u>		CITY, STATE, ZIP CODE	
•	LA	RRY BRIGHT	· .		SSELL EMERSON	
<u> </u>	DISCHAR	GER CONTACT PERSON		FAC	ILITY CONTACT PERSON	
	<u> 10-7500</u>	lbright@vwwa		<u>61) 978-0982</u>	remerson@v	
TELEPHO	ONE NO.	E-MAIL ADDRE	-	TELEPHONE NO.	E-MAIL A	DDRESS
		GENE	RAL INSPECTION	INFORMATION		
spection '	Type: B Type C	Compliance Inspection	·	Lead	d Inspector: R. We	st .
/18/2013	to 09/18/2	013 9:30 am	Clear, Sunny		·	
	SPECTION DATE(S)	INSPECTION		GENERAL WE	EATHER CONDITIONS	
•		٠.	INSPECTION ATTE	NDEE(S)		
	Scott Moore	Central \	/alley Water Board	(559) 445-5170	emoore@u	vaterboards.ca.gov
	NAME		MPANY/AGENCY	TELEPHONE NO.		MAIL ADDRESS
Ru	ssell Emerson	Valley Wat	er Management Co.	(661) 978-0982	remerso	n@vwwater.com
	NAME		MPANY/AGENCY	TELEPHONE NO.	E-MAIL ADDRESS	
Mike Toland			CDOGGR (661) 334		michael.toland	@conservation.ca.gov
	NAME		MPANY/AGENCY	TELEPHONE NO		
VDRs).	ant Facility was Oil field produc	CTION SUMMAR inspected to determ ced wastewater is dis	RY (for CIWQS e ine compliance with scharged into seven	Waste Discharge R surface impoundme	acter maximu lequirements Ordents (sumps) at the	m) er 92-11037 e facility. The
VDRs). uality of /DRs. D	INSPE ant Facility was Oil field produc wastewater dis Discharge of hig	CTION SUMMAR inspected to determ ced wastewater is dis charged to sumps ex	RY (for CIWQS e	ntry – 500 chara Waste Discharge R surface impoundme prescribed in Disch	acter maximu Equirements Ordents (sumps) at the	m) er 92-11037 e facility. The n B. 1 of the
VDRs). uality of /DRs. D	INSPE ant Facility was Oil field produc wastewater dis Discharge of hig	CTION SUMMAR inspected to determ ced wastewater is dis charged to sumps ex	RY (for CIWQS e ine compliance with scharged into seven xceeds salinity limits	ntry – 500 chara Waste Discharge R surface impoundme prescribed in Disch	acter maximu Equirements Ordents (sumps) at the	m) er 92-11037 e facility. The n B. 1 of the
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VDRs). uality of /DRs. D oundwa entify VIOI ppe, descri	INSPECTANT	inspected to determined wastewater is discharged to sumps expension in table between the salinity wastewater in the salinity wast	ine compliance with scharged into seven xceeds salinity limits r to sumps at the factor of the scharged into seven xceeds salinity limits r to sumps at the factor of the school of the	waste Discharge R surface impoundment prescribed in Discharge in Disch	acter maximu Requirements Ordents (sumps) at the arge Specification the WDRs and policable) CIWQS, identify Violations Sps. Disciplications	m) er 92-11037 e facility. The n B. 1 of the oses a threat to ution ID and Violation ection of the WDRs Violated harge Specification B.
VDRs). uality of /DRs. D oundwa entify VIOI pe, descri	INSPECTANT	inspected to determined wastewater is discharged to sumps exhibiting wastewater. INSPECTION with a salinity wastewater. Violation Type Effluent Violation Order Conditions NOV OTHE	ine compliance with scharged into seven xceeds salinity limits r to sumps at the factor of the series of the serie	waste Discharge R surface impoundment prescribed in Discharge in Disch	acter maximu Lequirements Ordents (sumps) at the arge Specification the WDRs and policable) CIWQS, identify Violations Discriptions	m) er 92-11037 e facility. The n B. 1 of the oses a threat to ution ID and Violation ection of the WDRs Violated harge Specification B.

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

	FACILITY INF	ORMATION					
Oil field production wastewater disposal facil		Active					
FACILITY DESCRIPTION (e.g., total area in acres, number of waste man	STATUS (ad	STATUS (active, inactive, closed)					
Oil field production wastewater.		Surface Impoundments					
WASTE TYPES	FAÇILITY CI	LASSIFICATION					
Twenty-seven unlined surface impoundment	ts and sprinkler irr	igation system.					
DISPOSAL DESCRIPTION (e.g., composting, landfill, surface Impoundment	ent, etc.)						
	BACKGF	ROUND					
The C-Plant Facility (Figure 1) contains seven wastewater. The C-Plant Facility accepts an wastewater per year from several small oil per 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 sun	oproximately 4.5 r producers in the E sumps. The wast ploride concentrat the C-plant Facil	dison Oil Field who ewater contains at	ose wastewater does n electrical conductive ams per liter (mg/L).	s not meet Basin rity (EC) of 5,700 and a boron			
	INSPECTION	GIS DATA					
GIS Equipment used:	·						
MANUFACTUR	RER	MODEL	SERIAL NO.	DATUM			
Description of Measured Point	Latitude	Longitude	Datum	Comments			
Centroid of Facility	35.355071	-118.859904	NAD 83	<u> </u>			
		<u> </u>					
		TIONS AND F					
Describe observations and findings and identify those that document and reference each violation listed in the Inspection Violations Summary table by identifying the cited violation number within parentheses following the observation/finding (e.g., Exposed waste on top deck (V1)). The facility was inspected to observe current wastewater disposal operations and evaluate compliance with the WDRs. Photographs were taken to document conditions observed (see page 4). Staff observed that oil field produced wastewater was being discharged into seven sumps at the facility. Land in the immediate vicinity of the facility is used for farming. It appeared that grapes are being farmed immediately south of the facility (see Figure 1). Wastewater enters the facility by means of inlet pipes (Photograph 1). The inlet pipes discharge wastewater into two oil separation sumps that are covered with netting (Photograph 2). The oil separation sumps are gunite-lined and contained wastewater coated with crude oil. From the oil separation sumps, the wastewater enters two gunite-lined sumps (hereafter referred to as "wastewater sumps") that are each approximately 125 feet in length and 45 feet wide (Photographs 3 and 4). The two wastewater sumps are equipped with built -in skimmers, that when lowered by an operator, skim crude oil off the wastewater. I did not observe any crude oil in the wastewater sumps (Photograph 4). Both of the wastewater sumps appeared to have insufficient freeboard (approximately 1 foot of freeboard). There are two unlined sumps (hereafter referred to as "oil sumps") that are used for storage of crude oil that is skimmed from wastewater. The two oil sumps were at maximum capacity and contained wastewater coated with a thin veneer of crude oil (Photograph 5). The last sump in the series is gunite-lined and is referred to as the shipping sump. Netting was recently constructed over the shipping sump to prevent wildlife from contacting crude oil (Photograph 6). The shipping sump contained wastewater coated with som							
The storm water basin located at the sout	hern portion of the	e facility was dry.					
SAMPLIN	G INFORMATI	ON AND OBSE	ERVATIONS				
Were samples collected during the inspection? Did discharger collect split samples?	☐ Yes No ☐ Yes No	Are sample res	ults included in report?	☐ Yes No			

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

SAMPLE COLLECTION INFORMATION AND OBSERVATIONS

SAMPLE TIME (hours) SAMPLE TIME (hours)	PHOTO NO
SAMPLE TIME (hours)	PHOTO NO
. SAMPLE TIME (hours)	PHOTO N
RESULTS	
WDRs).	
_	G RESULTS h WDRs).

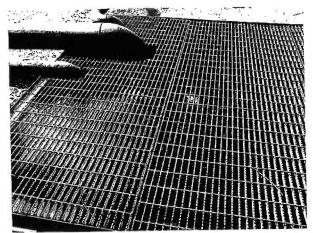
CONCLUSIONS

Summarize the conclusions of the inspection(s) below.

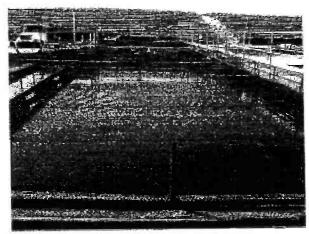
- 1. The shipping sump has recently been covered with netting to preclude wildlife. This resolves the Notice of Violation dated 28 June 2012 issued to Valley Water Management Company.
- 2. The two wastewater sumps appeared to have insufficient freeboard (approximately 1 foot) and are in violation of 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.

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

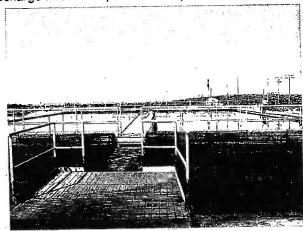
PHOTOGRAPHS



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



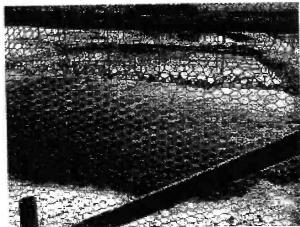
Photograph 2. - View of oil separation sumps.



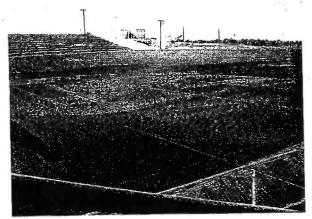
Photograph 3. – View of a separation sumps and wastewater sumps looking west.



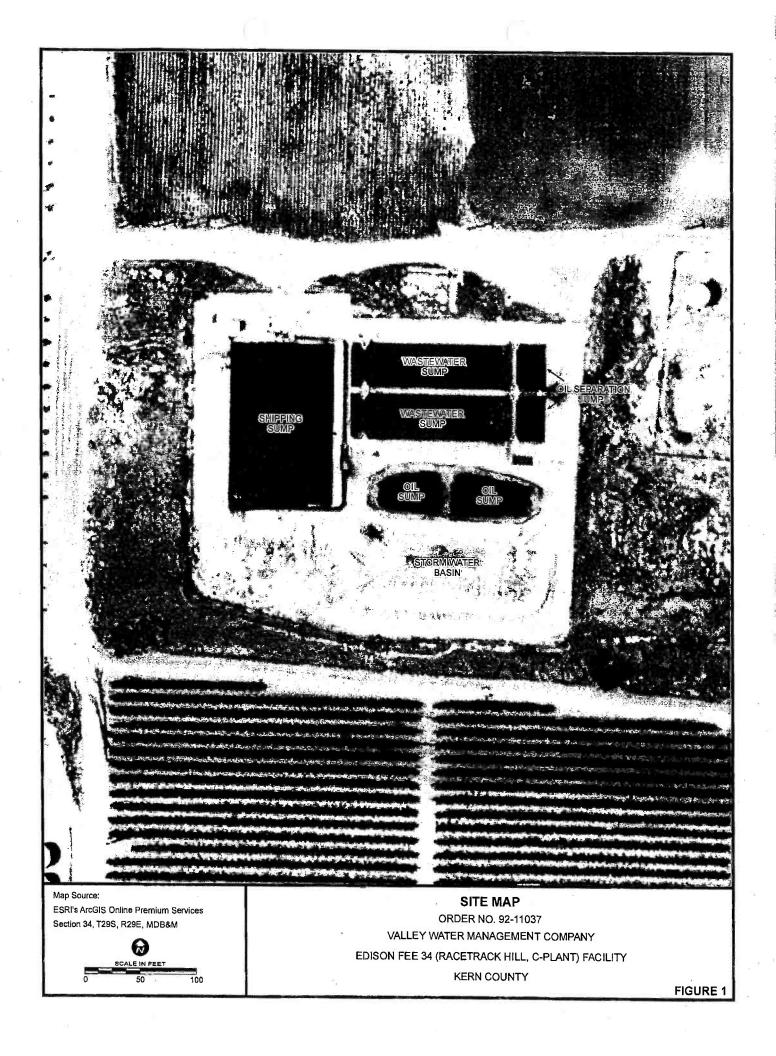
Photograph 4. – View of the wastewater sumps looking southeast.



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 | 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

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	·	RY BRIGHT	•	RU	SSELL EMERS	ON
		R CONTACT PERSON		FAC	ILITY CONTACT PER	SON
(661) 41	0-7500	lbright@vwwater.		61) 978-0982		n@vwwater.com
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		GENERA	L INSPECTION	INFORMATION		
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	Scott Moore		ey Water Board	TELEPHONE NO.	311001	E-MAIL ADDRESS
Ru	ssell Emerson	•	Management Co.	(661) 978-0982	rem	erson@vwwater.com
1,0	NAME .	COMPA	COMPANY/AGENCY TELEPHONE			E-MAIL ADDRESS
	Mike Toland		OGGR	(661) 334-3662 TELEPHONE NO.	michael.	toland@conservation.ca.gov E-MAIL ADDRESS
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FACILITIES INSPECTION REPORT VALLEY WATER MANAGEMENT COMPANY

RACE TRACK HILL FACILITY, EDISON OIL FIELD

	FACILITY IN	-ORMATION		
Oil field production wastewater disposal fac	ility.			Active
FACILITY DESCRIPTION (e.g., total area in acres, number of waste ma	inagement units, etc.)		STATUS (ac	ctive, inactive, closed)
Oil field production wastewater.	Sub-15	Surface Impoundments		
WASTE TYPES		•		LASSIFICATION
Twenty-seven unlined surface impoundment	nts and sprinkler i	rrigation system.		
DISPOSAL DESCRIPTION (e.g., composting, landfill, surface impounds	ment, etc.)	·		
	BACKG	ROUND		
The Race Track Hill Facility (Figure 1) conta disposal of wastewater. The wastewater, contains of the facility by the facility	ollected at Valley by pipeline for disp il field production of the meet Basin Plar ity of 5,700 micro	Water Managemer posal. The C-Plant wastewater per yean n salinity limits for c mhos per centimet	nt Company's C-Plan Facility accepts app ar from several small discharges to unlined	t Facility in the roximately oil producers in the
	INSPECTION	V GIS DATA		
GIS Equipment used:		·		
MANUFACTUR	RER	MODEL	SERIAL NO.	DATUM
Description of Measured Point	Latitude	Longitude	Datum	Comments
Centroid of Facility	35.392863	-118.821173	NAD 83	Continuents
The facility was inspected to observe currer Photographs were taken to document observe currer Photographs were taken to document observe currer Photographs were taken to document observe current Photographs were taken to document observe current Photographs were taken to document observe are twenty-seven unlined sumps on the production wastewater. Wastewater is graver cently constructed over the "Entry Sump" A vacuum truck operator was on-site cleaning. Emerson (Valley Water Management C of regular facility maintenance. Crude oil wastew of the sumps did not contain wastewater. A sprinkler irrigation system is used to irrigative wastewater. Approximately 94 acres of operating at the time of the inspection (Pho	nt wastewater dispressions (see page) the facility that are vity fed from one sto prevent wildlifeing crude oil out of ompany) stated that not observed it or (Photograph 6). The avariety of saling and on the facility tograph 4).	e used for percolations are 4). e used for percolations are to the next in the from contacting of the north-east contact vacuum trucks in the remainder of the tolerant vegetation are irrigated (see the see	on and evaporation of a downhill series. No rude oil in the sump (ruer of Sump 2 (Photographe used on a frequent the sumps (Photographe on to facilitate evapote e Figure 1). Sprinkler	of oil field etting was Photograph 1). ograph 2). nt basis as part aphs 3 and 5). A
SAMPLING		N AND OBSER	RVATIONS	•
Were samples collected during the inspection?	Yes No	Are sample result	s included in report?]Yes ⊠ No
] Yes ⊠ No _ECTION INFORI	MATION AND OB	SERVATIONS	
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FACILITIES INSPECTION REPORT
VALLEY WATER MANAGEMENT COMPANY
RACE TRACK HILL FACILITY, EDISON OIL FIELD

DISCUSSION OF SAMPLING RESULTS

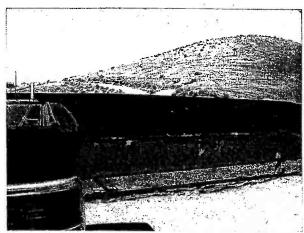
Discuss sampling results (e.g., discuss whether sampling results show compliance with WDRs).

CONCLUSIONS

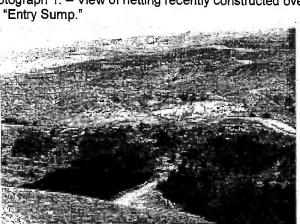
Summarize the conclusions of the inspection(s) below.

- 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.

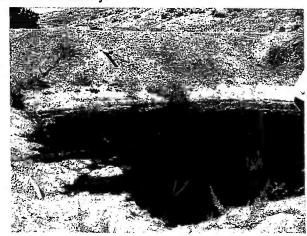
PHOTOGRAPHS



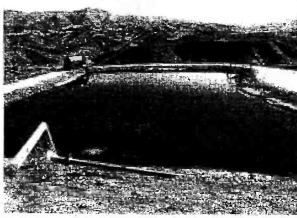
Photograph 1. - View of netting recently constructed over the "Entry Sump."



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.

