The California Regional Water Quality Control Board, Central Valley Region (hereafter Central Valley Water Board), finds that:

1. E&B Natural Resources Management (hereinafter Discharger) operates a petroleum production wastewater discharge facility at its Gov’t Lease in the Poso Creek Oil Field (Gov’t Lease). The Gov’t Lease, approximately ten miles north of Bakersfield, is located in Section 14, T27S, R27E, MDB&M (see Attachment A, which is attached hereto and made a part of this Order).

2. The Gov’t Lease contains three unlined surface impoundments (ponds). Wastewater is separated from the extracted crude oil and discharged to the unlined ponds for percolation and evaporation. Two of the ponds are each approximately 90 ft. long by 65 ft. wide and ten ft. deep (Ponds No. 1 and No. 2). The third pond is approximately 16 ft. long by eight ft. wide and eight ft. deep (Pond No. 3). Attachment B (which is attached hereto and made a part of this Order) is a site plan showing the location of the ponds.

3. The Discharger has not submitted a Report of Waste Discharge. The Gov’t Lease is not regulated by Waste Discharge Requirements (WDRs) for the discharge of petroleum production wastewaters.

4. This Order contains a time schedule to achieve compliance with the California Water Code (Water Code) and the Water Quality Control Plan for the Tulare Lake Basin Second Edition, Revised January 2004 (Basin Plan), and requires that by 31 December 2016, the Discharger demonstrate that the discharge to these ponds can comply with the applicable laws, policies, and regulations or the discharge will have to cease by that date.

5. The 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 Poso Creek in the Kern Uplands Hydrologic Area (558.90) of the Tulare Lake Basin. The designated beneficial uses of Poso Creek, as specified in the Basin Plan, are agricultural supply; water contact and non-contact water recreation; warm fresh water habitat; cold fresh water habitat; preservation of rare, threatened and endangered species; groundwater recharge; and freshwater replenishment.

7. The Gov’t Lease is in the Kern County Basin Hydrologic Unit, Detailed Analysis Unit (DAU) 257. The designated beneficial uses of the groundwater, as specified in the Basin Plan for DAU 257 are municipal and domestic water supply, agricultural supply, industrial service and process supply, and water contact recreation.
8. This Cleanup and Abatement 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.

9. The Basin Plan sets forth the following specific waste constituent limits for discharges of oil field wastewater to unlined ponds overlying ground water with existing and future probable beneficial uses are:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Units</th>
<th>Limitation Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific EC</td>
<td>micromhos per centimeter (µmhos/cm)</td>
<td>1000</td>
</tr>
<tr>
<td>Chloride</td>
<td>milligrams per liter (mg/l)</td>
<td>200</td>
</tr>
<tr>
<td>Boron</td>
<td>mg/l</td>
<td>1</td>
</tr>
</tbody>
</table>

10. The Basin Plan allows discharges of oil field wastewater that exceed the above maximum salinity limits to unlined ponds, 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.

11. On 25 March 2015, the Central Valley Water Board issued a Notice of Violation (NOV) to the Discharger that was the result of an inspection conducted on 11 December 2014 (see Attachment C, which is attached hereto and made a part of this Order). The NOV alleged that the discharge was in violation of Section 13260 of the California Water Code for failure to submit a Report of Waste Discharge before discharging waste that could affect the quality of waters of the State. The quality of the wastewater is unknown as a sample could not be collected during the inspection due to a layer of oil on top of the wastewater in the pond.

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1 Water Code section 13267, subdivision (b)(1) states: "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, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters 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."
12. Section 13304(a) of the Water Code provides that:

   Any person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by the state board or a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

13. Oil field produced water can contain elevated concentrations of general minerals (especially total dissolved solids and chloride), metals (i.e., arsenic), trace elements (i.e., boron, strontium, thallium, lithium, etc.), petroleum hydrocarbons, polynuclear aeroomatic hydrocarbons (PAHs), volatile organic compounds (VOCs, i.e., benzene, toluene, ethylbenzene, and xylenes [BTEX]), and radionuclides. The unauthorized discharge of waste containing oil field waste constituents to ground and/or groundwater creates, or threatens to create, a condition of pollution in groundwater, and may result in the degradation of water quality.

14. Land west of the Gov’t Lease is being used for agricultural production, primarily grapes and citrus crops. The nearest irrigated crops are approximately three miles west of the lease. Many of the crops are irrigated with groundwater from local supply wells. Based on Ayers and Westcott (1985), irrigation water with a chloride concentration above 350 mg/l can cause severe crop problems. Boron toxicity can occur on sensitive crops at concentrations less than 1 mg/l in irrigation water.

15. Underlying groundwater may be degraded if mixed with oil field wastewater. Oil field wastewater constituents could impair the groundwater for municipal and domestic supply and agricultural supply uses.

16. An investigation is necessary to determine whether the discharge of wastewater has caused or threatens to cause a threat or condition of pollution or nuisance to groundwater.
17. The following actions will determine the threat and/or impacts to groundwater as a result of the discharges at the Gov’t Lease in violation of the Water Code:

a. Development of a work plan to conduct a hydrogeological site characterization and assess potential groundwater degradation by discharges from this facility;

b. Documentation of the average monthly volume of wastewater discharged to the ponds during the previous year will be submitted, and continued discharge during the investigation will not exceed the average monthly discharge rate calculated for the prior year; and

c. This Order requires that if degradation of groundwater due to discharge from any of the ponds is documented, then a work plan to delineate the nature and extent of the release and a plan to remediate the effects of the release must be submitted.

18. The deliverables ordered herein (work plans, signing up for WDRs, investigations, etc. as necessary) are needed 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 conditions in State waters created by the discharge, (c) the threat to public health posed by the discharge, and (d) appropriate cleanup and abatement measures. The deliverables will enable the Discharger, with concurrence from the Central Valley Water Board, to determine the vertical and lateral extent of the discharge, ascertain whether the condition of pollution poses a threat to human health in the vicinity of the Gov’t Lease, and provide technical information to determine the cleanup and abatement measures necessary to bring the Site into compliance with applicable water quality standards. Based on the nature and possible consequences of the discharges, including impacts to groundwater supply, the burden of providing the required information, including costs, bears a reasonable relationship to the need for the required reports, and the benefits to be obtained from the reports. The deadlines set forth herein are reasonable given the need to investigate the potential threat to groundwater quality.

19. In accordance with Water Code section 13267(b), these findings provide the Discharger 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 cleanup and abatement activities if needed, and to submit the reports. The Discharger owns a portion of the mineral rights and operates the Gov’t Lease which is subject to this Cleanup and Abatement Order. The technical and monitoring reports required by this Order are necessary to determine compliance with this Cleanup and Abatement Order.

20. Issuance of this Cleanup and Abatement 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 Cleanup and Abatement Order generally requires the Discharger to submit plans for approval prior to implementation of investigative and, if necessary, cleanup activities at the Gov’t Lease. 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 not enough information concerning the Discharger’s proposed remedial activities and possible associated environmental impacts. If the Central Valley Water Board determines that implementation of any plan required by this Cleanup and Abatement Order will have a significant effect on the environment, the Central Valley Water Board will conduct the necessary and appropriate environmental review prior to the Executive Officer’s approval of the applicable plan.

21. The Discharger will bear the costs, including the Central Valley Water Board’s costs, of determining whether implementation of any plan required by this Cleanup and Abatement Order will have a significant effect on the environment and, if so, in preparing and handing any documents necessary for environmental review. If necessary, the Discharger and a consultant acceptable to the Central Valley Water Board shall enter into a memorandum of understanding with the Central Valley Water Board regarding such costs prior to undertaking any environmental review.

IT IS HEREBY ORDERED that, pursuant to section 13304 and section 13267 of Division 7 of the California Water Code, E&B Natural Resources Management shall cease the discharge of wastewater in violation of applicable laws, policies, and regulations, and clean up and abate the condition of unauthorized discharge in accordance with the schedule below:

1. By 15 July 2015, the Discharger shall prepare and submit to the Central Valley Water Board a Work Plan with a time schedule proposed by the Discharger and approved by the Assistant Executive Officer. The schedule shall provide the ability to determine whether the discharge can comply with applicable laws, policies, and regulations that would allow the issuance of waste discharge requirements by 31 October 2016. If issuance of waste discharge requirements is not obtained by 31 December 2016, the discharge shall cease. The Work Plan needs to include, but is not limited to, the following tasks:
   a. Identify all owners of the surface rights and the mineral rights of the Gov’t Lease property.
   b. Conduct a hydrogeological site characterization to assess the effects of the discharge of oil field wastes on underlying groundwater. The characterization shall be conducted in a manner to utilize acquired information to further assess the impacts of the wastewater discharge on groundwater. If the Discharger demonstrates that the wastes discharged to the ponds cannot affect the quality of underlying groundwater, the Assistant Executive Officer may rescind by signed letter all or part of the requirements to complete the groundwater investigation and groundwater monitoring portions of this Order.
The hydrogeological characterization, and a determination whether there has been a release of waste constituents to groundwater, shall be consistent with the detection monitoring requirements of Title 27, CCR, section 20005 et seq. (Title 27). This includes the development of a Sampling and Analysis Plan (SAP); the location and installation of groundwater monitoring wells; soil sampling locations (if necessary); and the sampling and analysis methods for groundwater and soil samples, in accordance with Monitoring and Reporting Program No. R5-2015-0066, which is attached hereto and made part of this Order;

d. Monitoring wells installed for the hydrogeological characterization shall be installed at appropriate depths that will allow the collection of representative groundwater samples. Existing groundwater wells documented to be in appropriate locations, where well depth and construction details can be provided, may be proposed as sampling points;

e. Collect and submit representative groundwater and soil samples for laboratory analysis for waste constituents in Monitoring and Reporting Program No. R5-2015-0066 in accordance with a sampling and analysis plan (SAP) approved by the Assistant Executive Officer;

f. Conduct a well survey to identify all water supply wells within one-mile of the ponds. The Discharger shall sample the identified domestic water supply wells and analyze the samples for the waste constituents listed in Table I of Monitoring and Reporting Program No. R5-2015-0066. If access to private property is needed, requested and denied, a demonstration of that is required;

g. If the investigation determines that a release of wastewater to groundwater or soils has occurred, the hydrogeological characterization shall include a characterization of the nature and extent of the release consistent with the evaluation monitoring program requirements contained in section 20425 of Title 27 CCR section 20005 et seq. (Title 27);

h. If the investigation determines that a release of wastewater to groundwater or soils has occurred, then following the characterization of the nature and extent of the release, a groundwater remediation program shall be submitted for Assistant Executive Officer review and approval that is consistent with the corrective action program requirements contained in section 20430 of Title 27. This will entail the preparation of an engineering feasibility study followed by a proposed corrective action program;

i. Include in the report a table that provides the total monthly discharge in barrels and gallons to the pond(s) subject to this Order from 1 January 2013 to the end of the month immediately preceding the date of the report. The table shall include a description of the sources and volume of each individual waste stream going to each pond.
CLEANUP AND ABATEMENT ORDER R5-2015-0066
E&B Natural Resources Management
Gov't Lease, Poso Creek Oil Field
Kern County

j. Calculation of the average monthly discharge of wastes to the ponds from 1 June 2014 through 1 June 2015;

k. The ponds shall either be free of oil or effectively screened and maintained to preclude entry of birds or animals;

l. Ponds adjacent to natural drainage courses shall be protected from inundation or washout, or properly closed;

m. Based on information acquired during the hydrogeological site characterization, submit a report of waste discharge (RWD) for preparation of waste discharge requirements, if appropriate, consistent with current regulations and policies. It is anticipated that general WDRs for discharges to unlined ponds will be presented to the Central Valley Water Board for adoption by August 2016. Submittal of a Notice of Intent to come under a general WDR, with the additional technical information, will meet the requirement of a RWD.

2. Beginning 1 September 2015, or a date approved by the Assistant Executive Officer, and quarterly thereafter until all Work Plan activities are complete, the Discharger shall submit technical reports that provide information to document the Work Plan activities completed to date and to ultimately document that all elements of the Work Plan have been completed. Corrective actions shall be proposed and included in these technical reports when Work Plan activities fail to satisfy any interim or final success criteria.

3. The Discharger shall comply with Monitoring and Reporting Program No. R5-2015-0066 (MRP), which is part of this Order, and any revisions thereto as ordered by the Assistant Executive Officer. The submission dates of self-monitoring reports shall be no later than the submission date specified in the MRP.

4. The monthly discharge volume of oil field wastewater to the ponds shall not exceed the average monthly discharge volume calculated in Order 1.j. above.

5. The Discharger shall not discharge produced fluids to any location on the Gov't Lease other than a permitted injection well, a permitted pond or disposal facility, or the ponds which are the subject of this Order.

6. **All activities in the Work Plan shall be completed** in accordance with time frames included in the Work Plan as approved by the Assistant Executive Officer.

7. With each report required by this Cleanup and Abatement Order, the Discharger 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 intentionally or negligently violates a cleanup and abatement order may be liable civilly in an amount which shall not exceed five thousand dollars ($5,000), but shall not be less than five hundred dollars ($500), for each day in which the cleanup and abatement order is violated.

8. If it is determined that discharges from the Gov’t Lease have impacted the beneficial uses of water, the Discharger can be further required upon notification by the Assistant Executive Officer to provide a replacement water supply or treat the water to allow continued use.

NOTIFICATIONS

1. **Applicability.** Requirements established pursuant to Water Code sections 13304 and 13267(b) are enforceable when signed by the Assistant Executive Officer of the Central Valley Water Board.

2. **Enforcement Actions.** The Central Valley Water Board reserves its right to take any enforcement action authorized by law for violations, including but not limited to, violations of the terms and conditions of this Cleanup and Abatement Order.

3. **Inspection and Entry.** The Discharger shall allow the Central Valley Water Board or State Water Board, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to at reasonable times do the following:
   a. Enter upon the properties;
   b. Access and copy any records related to this Cleanup and Abatement Order;
   c. Inspect and photograph any facilities, equipment, practices, or operations regulated or required by this Cleanup and Abatement Order; and
   d. Sample or monitor any substances or parameters on-site for the purposes of assuring Cleanup and Abatement Order compliance or as otherwise authorized by the Porter-Cologne Water Quality Control Act.

4. **Potential Liability.** Pursuant to Water Code section 13350, any person who intentionally or negligently violates a cleanup and abatement order may be liable civilly in an amount which shall not exceed five thousand dollars ($5,000), but shall not be less than five hundred dollars ($500), for each day in which the cleanup and abatement order is violated. Pursuant to Water Code section 13268, any person failing or refusing to furnish technical or monitoring program reports as required by section 13267, or
5. **Cost Reimbursement.** Pursuant to Water Code section 13304, the Central Valley Water Board is entitled to, and may seek reimbursement for, all reasonable costs it actually incurs to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Cleanup and Abatement Order. The Discharger shall reimburse the State of California for all reasonable costs actually incurred by the Central Valley Water Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Cleanup and Abatement Order, according to billing statements prepared from time to time by the State Water Board.

6. **Waste Management.** The Discharger shall properly manage, store, treat, and dispose of contaminated soils and groundwater which are extracted or disturbed during the investigation in accordance with applicable federal, state, and local laws and regulations. The storage, handling, treatment, or disposal of soil containing waste constituents and polluted groundwater shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050(m). The Discharger shall obtain or apply for coverage under waste discharge requirements or a conditional waiver of waste discharge requirements for any discharge of the waste to (a) land for treatment, storage, or disposal or (b) waters of the State.

7. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Central Valley Water Board that is subject to review as set forth in Water Code section 13320(a), may petition the State Water Board to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within thirty (30) days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, or state holiday, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the laws and regulations applicable to filing petitions may be found on the internet at [http://www.waterboards.ca.gov/public_notices/petitions/water_quality/index.shtml](http://www.waterboards.ca.gov/public_notices/petitions/water_quality/index.shtml) or will be provided upon request.

8. **Modifications.** Any modification to this Cleanup and Abatement Order shall be in writing and approved by the Assistant Executive Officer, including any extensions. Any written extension request by the Discharger shall include justification for the delay.

9. **No Limitation of Water Board Authority.** This Cleanup and Abatement Order in no way limits the authority or ability of the Central Valley Water Board to institute additional enforcement actions or to require additional investigation and any necessary cleanup of the property consistent with the Water Code. This Cleanup and Abatement Order may be revised as additional information becomes available.
REPORTING REQUIREMENTS

1. **Duty to Use Qualified Professionals.** The Discharger shall provide documentation that plans and reports required under this Cleanup and Abatement Order are prepared under the direction of appropriately qualified professionals. Business and Professions Code sections 6735, 7835, and 7835.1 require that engineering and geologic evaluations and judgments be performed by or under the direction of licensed professionals. The Discharger shall include a statement of qualifications and license numbers, if applicable, of the responsible lead professionals in all plans and reports required under this Cleanup and Abatement Order. The lead professional shall sign and affix their license stamp, as applicable, to the report, plan, or document.

2. **Electronic and Paper Media Reporting Requirements.** The Discharger shall submit both electronic and paper copies of all reports required under this Cleanup and Abatement 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. The Discharger 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 must include the following identification numbers in the header or subject line: Geotracker Site ID: T10000006457. The Discharger shall comply with the following reporting requirements for all reports and plans (and amendments thereto) required by this Cleanup and Abatement Order:

   a. **Reports and Plans Required by this Cleanup and Abatement Order.** The Discharger 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 Cleanup and Abatement 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 Cleanup and Abatement Order are required to be submitted electronically via the Internet into the Geotracker database http://geotracker.waterboards.ca.gov/ (Geotracker Site ID: T10000006457).** The electronic data shall be uploaded on or prior to the regulatory due dates set forth in the Cleanup and Abatement Order or addenda thereto. To comply with these requirements, The Discharger shall upload to the Geotracker database the following minimum information:

      i. **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, groundwater, piezometers, and stockpiles.

ii. Locational Data: All permanent monitoring locations (monitoring wells, sediment sampling locations, etc.) shall be surveyed with latitude and longitude coordinates in a decimal degree format basin on the North American Datum 1983 ellipsoid, and accurate to within one meter (3 feet).

iii. Site Map: Site map or maps which display discharge locations, streets bordering the facility, and sampling locations for all waste, soil, and water samples. The site map is a stand-alone document that may be submitted in various electronic formats. A site map must also be uploaded to show the maximum extent of any soil impact and water pollution. An update to the site map may be uploaded at any time.

iv. 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.

3. **Oversight Reimbursement.** Reimburse the Central Valley Water Board for reasonable costs associated with oversight of the investigation and remediation of the Site, as provided in Water Code section 13304(c) (1). **By 15 May 2015**, provide the name and address where the invoices shall be sent. Failure to provide a name and address for invoices and/or failure to reimburse the Central Valley Water Board’s reasonable oversight costs shall be considered a violation of this Cleanup and Abatement Order.

4. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by The Discharger 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 The Discharger; 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 thus be either a named individual or any individual occupying a named position.) With each report required by this Order, the Discharger 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 intentionally or negligently violates an order may be
liable civilly in an amount which shall not exceed five thousand dollars ($5,000), but shall not be less than five hundred dollars ($500), for each day in which the order is violated.

5. All monitoring and technical reports required under this Cleanup and Abatement 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: T10000006597

6. FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CLEANUP AND ABATEMENT ORDER MAY SUBJECT YOU TO FURTHER ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO, ASSESSMENT OF CIVIL LIABILITY UNDER SECTIONS 13268 AND 13350 OF THE WATER CODE AND REFERRAL TO THE DISTRICT ATTORNEY OR ATTORNEY GENERAL FOR INJUNCTIVE RELIEF AND CIVIL OR CRIMINAL LIABILITY.

I Pamela C. Creedon, Executive Officer, do hereby certify that this Order is a full, true and correct copy of the Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 4 June, 2015

Original signed by:

PAMELA C. CREEDON, Executive Officer
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2015-0066
FOR
E AND B NATURAL RESOURCES MANAGEMENT COMPANY
GOVERNMENT LEASE
POSO CREEK OIL FIELD
KERN COUNTY

Compliance with this Monitoring and Reporting Program is required pursuant to Water Code section 13267 as ordered by Cleanup and Abatement Order R5-2015-0066 (the “CAO”). Failure to comply with this program constitutes noncompliance with the CAO 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 which are tested for and reported on by the testing laboratory shall be provided to the Central Valley Water Board. All 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 that complies with the requirements of the CAO and is consistent with the detection monitoring requirements of section 20420 et seq. of Title 27, CCR, 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 the surface impoundments (ponds) that are the subject of the CAO.

Groundwater samples shall be collected from groundwater monitoring wells and other sampling points established in accordance with the hydrogeological characterization required by the CAO. The collected samples shall be analyzed for the parameters and constituents listed in Table I in accordance with the specified methods and frequencies. The Discharger shall collect, preserve, and transport groundwater samples in accordance with the Sample Collection and Analysis Plan approved by the Assistant Executive Officer.
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 and frequencies. The Discharger shall collect, preserve, and transport produced water samples in accordance with the approved Sample Collection and Analysis Plan.

The Discharger shall record the volume of wastewater discharged to the ponds monthly. The wastewater volumes shall be reported in the quarterly monitoring reports.

FACILITY MONITORING

Permanent markers shall be in place 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 waste management unit 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.

<table>
<thead>
<tr>
<th>Monitoring Period</th>
<th>Report Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>January – March</td>
<td>April 30</td>
</tr>
<tr>
<td>April – June</td>
<td>July 31</td>
</tr>
<tr>
<td>July – September</td>
<td>October 31</td>
</tr>
<tr>
<td>October – December</td>
<td>January 31</td>
</tr>
</tbody>
</table>

Each quarterly report shall include the following minimum information:

(a) a description and discussion of the groundwater sampling event 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 CAO or Assistant Executive Officer;

(l) 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:

   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, if applicable; 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:

California Regional Water Quality Control Board
Central Valley Region
1685 E Street, Suite 200
Fresno, CA 93706
Attn: Ron Holcomb
Geotracker Site ID: T10000006597

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 CAO by the discharger, or the discharger’s authorized agent, under penalty of perjury, that to the best of the signer’s knowledge the report is true, accurate, and complete.

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

Original signed by:

Ordered by:_____________________
PAMELA C. CREEDON, Executive Officer

4 June 2015

(Date)
## Table 1 – Influent and Groundwater Monitoring

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Units</th>
<th>Monitoring Frequency</th>
<th>US EPA or other Method</th>
<th>Reporting Frequency</th>
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<td><strong>Groundwater Elevation</strong></td>
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<td>Groundwater Elevation</td>
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<td>Quarterly</td>
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<td><strong>Stable Isotopes</strong></td>
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<td>Oxygen (*^{18}\text{O})</td>
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<td>Deuterium (Hydrogen 2, \text{^2}{\text{H}}, or D)</td>
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<tr>
<td>Zinc</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>200.8</td>
<td>Quarterly</td>
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</table>

1 Mean Sea Level  
2 Degrees Fahrenheit  
3 Micromhos per centimeter  
4 Milligrams per liter  
5 Polycyclic aromatic hydrocarbons  
6 micrograms per liter  
7 Picocuries per liter  
8 Standard Methods
VICINITY MAP
CLEANUP AND ABATEMENT
ORDER R5-2015-0066
FOR
E&B NATURAL RESOURCES MANAGEMENT CORPORATION
GOVERNMENT LEASE, POSO CREEK OIL FIELD
KERN COUNTY

ATTACHMENT A
LEASE MAP
CLEANUP AND ABATEMENT
ORDER R5-2015-0066
FOR
E&B NATURAL RESOURCES MANAGEMENT CORPORATION
GOVERNMENT LEASE, POSO CREEK OIL FIELD
KERN COUNTY
ATTACHMENT B
Central Valley Regional Water Quality Control Board

25 March 2015

NOTICE OF VIOLATION

Jennifer Brady
E&B Natural Resources Management Company
3000 James Road
Bakersfield, CA 93308

CERTIFIED MAIL
7014 2870 0000 7593 4825

INSPECTION REPORT – E&B NATURAL RESOURCES MANAGEMENT COMPANY, GOVERNMENT LEASE, POSSO CREEK OIL FIELD, KERN COUNTY

Central Valley Regional Water Quality Control Board staff (Staff) inspected the Government Lease in the Poso Creek Oil Field on 11 December 2014 to ascertain the status of three surface impoundments (sumps) identified by the California Division of Oil, Gas, and Geothermal Resources (DOGGR) as active. Disposal operations at the facility are not regulated by Waste Discharge Requirements (WDRs). Staff’s comments are presented in the enclosed inspection report.

Three unlined sumps were observed. During the inspection, Staff observed an active discharge of fluid into Sump #1. Sumps #1 and #2 are connected via an overflow pipe. Oil stained soil, oil field produced wastewater, and oil on the fluid surface was observed in Sumps #1 and #2. The discharge of wastewater to a sump without WDRs is a violation of Section 13260(a) of the California Water Code. Freeboard and netting appeared to be adequate.

Oil stained soil and fluid was observed in Sump #3. The fluid had a small volume of oil and had a total depth of approximately 2 inches. Troyce Leatherwood with E&B Natural Resources stated the fluid in Sump #3 is from a recent rain event, but did not have documentation that it was rainwater. Staff was unable to sample the fluid due to the steep side slope and sample pole was insufficient in length. Sumps used for the disposal of oil field produced wastewater normally have elevated concentrations of salts in the soil. Rainwater allowed to pond on a sump floor provides an opportunity for the salts to dissolve into the fluid creating wastewater. Wastewater in a sump without WDRs is a violation of Section 13260(a) of the California Water Code.

If E&B Natural Resources intends to retain the sumps for the discharge of waste, a Report of Waste Discharge (RWD), along with the appropriate filing fee, needs to be submitted for issuance of WDRs. The discharge of wastes to a sump without WDRs, or before 140 days following a determination that the submitted RWD is complete and adequate, is a violation of Section 13260 of the California Water Code (CWC). The RWD needs to include a demonstration that the California Environmental Quality Act (CEQA) has been satisfied. A violation of 13260(a) of the CWC may subject E&B Natural Resources to potential liability pursuant to CWC Section 13350 or 13261, in an amount up to $10 for
each gallon discharged or $5,000 for each day that the discharge occurs, and/or up to $1,000 for each day the RWD is not submitted.

If E&B Natural Resources plans to close the sumps, please submit closure plans prepared by a California registered professional. In addition, please submit a history of waste discharge (volumes & dates) to the sumps.

If you have any questions regarding this inspection, please contact Josh Mahoney at (559) 444-2449 or by email at Joshua.Mahoney@waterboards.ca.gov

DANE S. JOHNSON
Senior Engineering Geologist
Professional Geologist No. 4239

Enclosure: Inspection Report

cc: Mike Toland, CDOG&GR, Bakersfield
FACILITIES INSPECTION REPORT

E & B NATURAL RESOURCES MANAGEMENT COMPANY

3000 JAMES ROAD

BAKERSFIELD, CA 93308

JENNIFER BRADY

TELEPHONE NO: (661) 616-6168

EMAIL ADDRESS: jbrady@ebresources.com

POSO CREEK OIL FIELD; GOVERNMENT LEASE

SECTION 14 T27S, R27E, MDB&M

KERN COUNTY

JENNIFER BRADY

TELEPHONE NO: (661) 616-6168

EMAIL ADDRESS: jbrady@ebresources.com

GENERAL INSPECTION INFORMATION

Inspection Type: B Type Compliance Inspection

Lead Inspector: Josh Mahoney

12/11/2014 to 12/11/2014

3:00 PM Clear, Sunny

INSPECTION DATE(S)

INSPECTION TIME

INSPECTION ATTENDEE(S)

Josh Mahoney

Central Valley Water Board

(559) 445-5116

Joshua.Mahoney@waterboards.ca.gov

Troyce Leatherwood

E&B Natural Resources

E-MAIL ADDRESS

E-MAIL ADDRESS

INSPECTION SUMMARY (for CIWQS entry – 500 character maximum)

The Government Lease in the Poso Creek Oil Field was inspected to ascertain the status of three surface impoundments (sumps) identified by the California Division of Oil, Gas, and Geothermal Resources (DOGGR) as active. Disposal operations at the facility are not regulated by Waste Discharge Requirements (WDRs).

INSPECTION VIOLATIONS SUMMARY (if applicable)

Identify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation Type, describe violation, and identify section of the WDRs or Water Code violated.

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<thead>
<tr>
<th>Label</th>
<th>Violation ID</th>
<th>Violation Type</th>
<th>Violation Description</th>
<th>Section of the WDRs Violated</th>
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</thead>
<tbody>
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<td>V1</td>
<td>986623</td>
<td>Unauthorized Discharge</td>
<td>Fluid observed in Sumps #1, #2, and #3</td>
<td>13260(a) of California Water Code</td>
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<td>V2</td>
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</table>

OTHER VIOLATIONS (if applicable)

SMR violations? ☐ Yes ☐ No ☒ Not Evaluated Notes:

File Review violations? ☐ Yes ☐ No ☒ Not Evaluated Notes:

Lead Inspector ID: 470254 Signature: [Signature] Date: 3/25/15

Inspection Tracking Information Reviewed by: (1) (2) (3) CIWQS Coordinator

E&B Natural Resources, Government Lease, Filename: Poso Creek Oil Field CIWQS Entry Date: 2/18/2015 CIWQS Inspection ID: 19376128
FACILITIES INSPECTION REPORT  
E&B NATURAL RESOURCES MANAGEMENT  
GOVERNMENT LEASE, POSO CREEK OIL FIELD

FACILITY INFORMATION

Crude oil production facility. Tank farm with oil and water separation tanks.

FACILITY DESCRIPTION (e.g., total area in acres, number of waste management units, etc.)

Oil field production wastewater.

WASTE TYPES

Wastewater piped to injection wells and sumps for disposal

DISPOSAL DESCRIPTION (e.g., composting, landfill, surface impoundment, etc.)

Active

STATUS (active, inactive, closed)

Oil/Gas Extraction

FACILITY CLASSIFICATION

BACKGROUND

The sumps on the lease are operated by E&B Natural Resources and are currently unregulated. The lease has not been previously inspected.

INSPECTION GIS DATA

<table>
<thead>
<tr>
<th>Description of Measured Point</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centroid of Sump #1</td>
<td>35°35'11.94&quot;N</td>
<td>119°2'37.19&quot;W</td>
<td>NAD 83</td>
<td>Active – Recorded by the DOGGR</td>
</tr>
<tr>
<td>Centroid of Sump #2</td>
<td>35°35'11.93&quot;N</td>
<td>119°2'38.18&quot;W</td>
<td>NAD 83</td>
<td>Active – Recorded by the DOGGR</td>
</tr>
<tr>
<td>Centroid of Sump #3</td>
<td>35°35'4.16&quot;N</td>
<td>119°2'41.71&quot;W</td>
<td>NAD 83</td>
<td>Idle – Recorded by the DOGGR</td>
</tr>
</tbody>
</table>

INSPECTION OBSERVATIONS AND FINDINGS

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 Government Lease (Facility) in the Poso Creek Oil Field was inspected to ascertain the status of three sumps identified by the DOGGR as active and idle. Disposal operations at the Facility are not regulated by WDRs. Photographs were taken to document conditions observed (see page 4).

The Facility contains a tank farm (Photograph 2) and three sumps (Photographs 3, 5, and 7). Oil stained soil and fluid was observed in Sumps #1 and #2. During the inspection, Staff observed an active discharge of fluids into Sump #1 (Photograph 4). The freeboard and netting for Sumps #1 and #2 appeared to be adequate. A sample of the fluid was not collected due to the thickness of the oil layer on the surface. Multiple inlet pipes were observed in Sumps #1 and #2.

Sump #3 is located approximately 0.15 miles south of Sumps #1 and #2, on the Government Lease. Oil stained soil and fluid was observed in Sump #3. The fluid had a small volume of oil and had a total depth of approximately 2 inches. Troyce Leatherwood with E&B Natural Resources stated the fluid in the sump is rainwater, but did not have documentation to verify it was rainwater. The fluid had an oily sheen. Staff was unable to obtain a sample of the fluid due to the steep side slope and sample rod was insufficient in length. A sump used for the disposal of oil field produced wastewater normally has elevated concentrations of salt in the soil. Rainwater allowed to pond on the sump floor provides the opportunity for the salts to dissolve into the fluid creating wastewater. Wastewater in a sump without WDRs is a violation of Section 13260(a) of the California Water Code.

Inlet pipes were observed in Sump #3, although Staff located the point of origin for each pipe. All pipes in Sump #3 are disconnected from the tank or connected to the drain adjacent to the tank (Photograph #8).

SAMPLING INFORMATION AND OBSERVATIONS

Were samples collected during the inspection?  □ Yes  □ No

Are sample results included in report?  □ Yes  □ No

Did discharger collect split samples?  □ Yes  □ No
DISCUSSION OF SAMPLING RESULTS

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

No samples were collected

CONCLUSIONS

Summarize the conclusions of the inspection(s) below.

1. Sumps #1 and #2 are actively being used for the disposal of oil field produced wastewater.

2. Sump #3 has the potential to be used for the disposal of oil field produced wastewater. The stated purpose of Sump #3 is emergency containment of fluids from above ground storage tanks.

3. Fluid was observed in Sumps #1, #2, and #3.

4. Oil field produced wastewater generated at the Facility is piped to an injection well or Sumps #1 and #2 for disposal.
PHOTOGRAPHS

Photograph 1. – Aerial of the facility (2014).

Photograph 2. – View of tank farm looking southwest.

Photograph 3. – View of Sump #1 looking southeast.

Photograph 4. – View of Sump #1 active discharge.

Photograph 5. – View of Sump #2 looking south.

Photograph 6. – View of fluid in Sump #2.
PHOTOGRAPHS

Photograph 7. – View of Sump #3 looking north.

Photograph 8. – View of the fluid in Sump #3.

Photograph 8. – View of tank with pipes disconnected.