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1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011
Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,
REFINERIES, COMPRESSOR, GEOTHERMAL FACILITIES
AND CRUDE OIL PUMP STATIONS**

(Refer to the OCD Guidelines for assistance in completing the application)

New Renewal Modification

1. Type: Discharge Permit GW-001 Renewal

2. Operator: Western Refining Terminals, LLC

Address: #50 County Road 4990, Bloomfield, NM, 87413

Contact Person: Gustavo Gonzales Phone: 505-863-0929

3. Location: SE /4 NE /4 Section 27 Township 29N Range 11W
Submit large scale topographic map showing exact location.

- 4. Attach the name, telephone number and address of the landowner of the facility site.
- 5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
- 6. Attach a description of all materials stored or used at the facility.
- 7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- 8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- 9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- 10. Attach a routine inspection and maintenance plan to ensure permit compliance.
- 11. Attach a contingency plan for reporting and clean-up of spills or releases.
- 12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
- 13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Angela Brown

Title: Vice President

Signature: X *Angela Brown*

Date: 2/7/2022

E-mail Address: asbrown@marathonpetroleum.com



DISCHARGE PERMIT
RENEWAL
APPLICATION
BLOOMFIELD
PRODUCTS TERMINAL

OWNERS

WESTERN REFINING SOUTHWEST LLC

WESTERN REFINING TERMINALS, LLC

OPERATOR

WESTERN REFINING TERMINALS, LLC

FEBRUARY 7, 2022

WSP USA INC.
848 EAST 2ND AVENUE
DURANGO, COLORADO 81301

T: (970) 385-1096
WSP.COM



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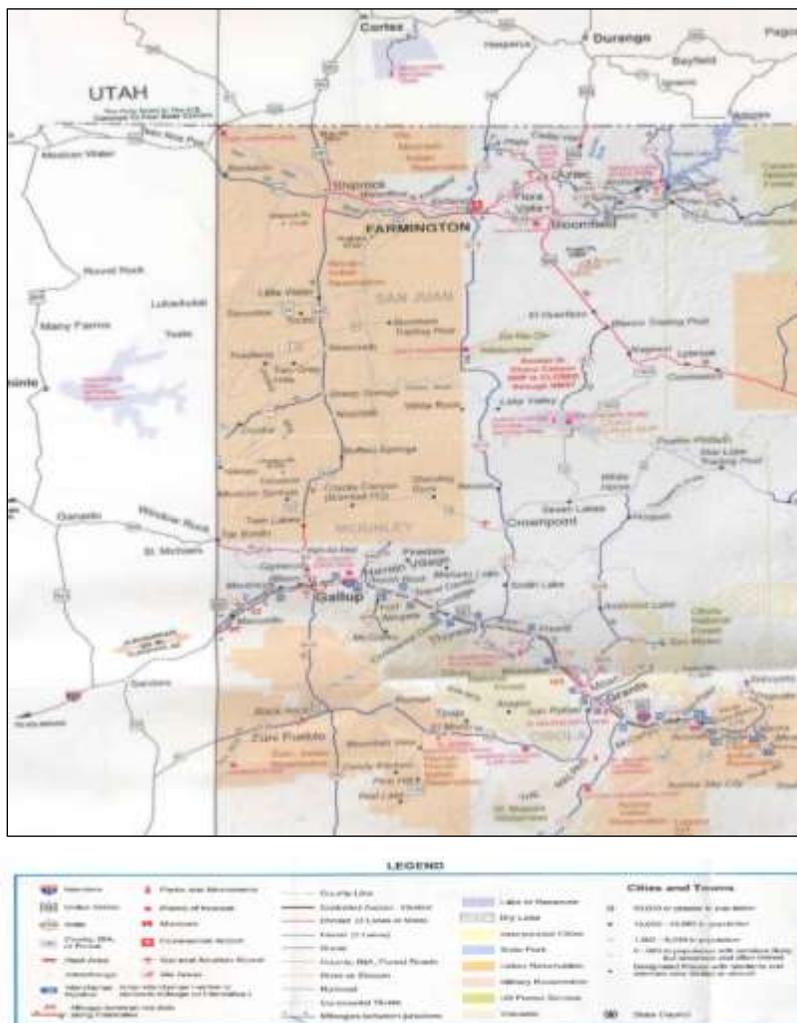
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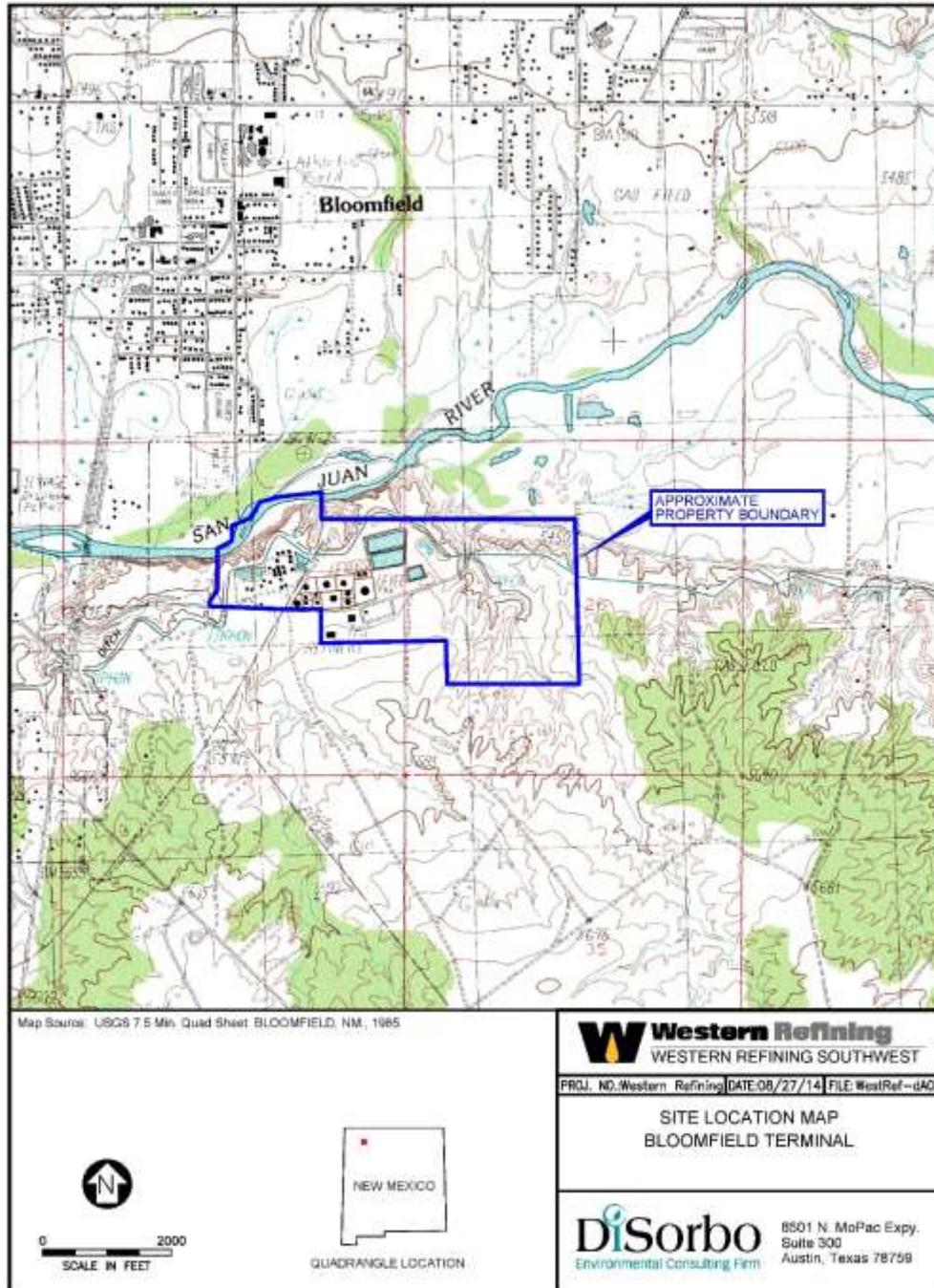
1 FACILITY DESCRIPTION

This Discharge Permit Renewal Application is being submitted to the New Mexico Oil Conservation Division (NMOCD) for a five-year term. The Bloomfield Products Terminal (“Terminal”) is located in San Juan County, New Mexico in Section 27, Township 29 North, and Range 11 West. It is more specifically located approximately at latitude 36° 41’ 30” and longitude 107° 58’ 20”, one mile south of the City of Bloomfield, New Mexico at 50 County Road 4990. The Terminal is a crude oil and petroleum product transfer and storage facility that includes truck loading and unloading. The Terminal stores and transfers crude oil and petroleum products (e.g., unleaded gasoline, diesel, ethanol, intermediates, petroleum additives, and trans mix etc.). The Standard Industrial Classification (SIC) code is 5171 and the North American Industrial Classification System NAICS is 424710.

Regional Map



Locality Map



A detailed map of the plant is also included with this application as Appendix A.

1.1 PROPERTY, OPERATOR, AND FACILITY OWNERSHIP ENTITIES AND CONTACTS

The following list outlines key entities associated with the Terminal, OGRID 267595.

Facility Name:

Bloomfield Products Terminal (physical address)
50 County Road 4990
Bloomfield, New Mexico 87413

Landowner:

San Juan Refining Company
50 County Road 4990
Bloomfield, NM 87413

Terminal Owner:

Western Refining Southwest LLC (Wastewater Treatment System)
50 County Road 4990
Bloomfield, NM 87413

Western Refining Terminals, LLC (Terminal Operations)
50 County Road 4990
Bloomfield, NM 87413

Operator:

Western Refining Terminals, LLC (postal address)
50 County Road 4990
Bloomfield, NM 87413

Bloomfield Products Terminal (physical address)
50 County Road 4990
Bloomfield, New Mexico 87413

Key Terminal Contact:

Gustavo Gonzales
Interim Terminal Manager
50 County Road 4990
Bloomfield, New Mexico 87413
Telephone: (505) 863-0929
Gustavo.gonzales@marathonpetroleum.com

1.2 FACILITY DESCRIPTION

The Terminal is situated on an elevated terrace south of the San Juan River and the Hammond Irrigation Ditch. This terrace is approximately 100 feet above the river level and 20 feet above the irrigation ditch. The northern Terminal fence line adjoins the irrigation ditch and the distance from the Terminal to the river's edge varies from approximately 300 to 1,000 feet.

The part of the Terminal tankage located north of County Road 4990 includes the following general areas:

- Office Area (buildings, warehouse, storage yard)
- Parking Lots & Truck crude & product unloading
- Wastewater Treatment Unit (WWTU)
- Tank Farm Area
- Used Equipment Laydown Area
- Firefighting Training Area
- Former Refinery Units
- Freshwater Ponds

The remainder of the Terminal facility and the evaporation ponds are located on a 25-acre parcel located south of County Road 4990 and include the following general areas:

- Terminal Office & parking areas
- Crude Oil Unloading Station
- Product Loading and Unloading Station & Storage Tank Area
- Warehouse
- Wastewater Evaporation Ponds
- 90-day Hazardous Waste Bay

Locations of Terminal infrastructure and features are further presented in Appendix A.

1.2.1 STATUS OF FORMER REFINERY UNITS

The former refinery units on the property ceased operations in 2009 and were shut down. Western Refining (the previous owner) drained the units of any product and flushed any applicable equipment as part of shutting down the refinery. No waste remains in any of the units.

1.3 ITEMS SPECIFICALLY REQUESTED IN THE NMOCD GUIDANCE DOCUMENT

1 Location of Fences

The Terminal incorporates an outer perimeter fence that substantially consists of chain link, barbed wire and posts, and roughly corresponds to the property boundaries. In addition, interior zones of 8-foot high chain link fencing are installed around the warehouse yards, storage pads, loading racks, and other sensitive areas. The locations of these fence lines are shown on the plant site drawing in Appendix A.

2 Location of Pits

The Terminal does not use earthen pits for waste accumulation.

3 Location of Berms

The Terminal generally uses earthen berms to form secondary containment basins for tankage. The locations of these berms are shown on the plant site drawing in Appendix A. In addition, the Facility maintains a Spill Prevention, Control, and Countermeasures (SPCC) Plan that details the containment capacities for all applicable oil storage containers on-site.

4 Location of Tanks

The Terminal uses aboveground tanks for storage. The locations of these tanks are shown on the plant site drawing in Appendix A.

5 Location of Discharges

Treated wastewater is evaporated at the evaporation ponds or injected underground at the on-site Class I Injection Well (described in Section 3.2 below).

Non-contact stormwater that is not contained on-site is released off-site at nine discharge locations on the boundary of the Terminal property (further described in Section 3.3 below). The location of the discharges and retention areas are shown on the plant site drawing in Appendix A and further described in Section 3.3 below.

Sanitary sewage is treated and released at two septic fields located within the Terminal property line. The systems are located at the following areas within the Facility:

- Terminal Main Office (North of County Road 4990)
- Terminal Control Room (South of County Road 4990)

The locations of the evaporation ponds, stormwater discharges, and septic fields are shown on the plant site drawing in Appendix A.

6 Location of Storage Facilities

The Terminal uses warehouses, outdoor yards, and curbed pads for storage of various materials and equipment within the Terminal. The locations of these storage facilities are shown on the plant site drawing in Appendix A.

2 SITE CHARACTERISTICS

The following sections describe the hydrologic/geologic characteristics in the vicinity of the Terminal.

TOPOGRAPHY, ELEVATIONS, AND VEGETATION TYPE

The Terminal is located on top of a bluff above the San Juan River at an elevation of approximately 5,540 feet above mean sea level. Regionally, the surface topography slopes toward the floodplain of the San Juan River, which runs along the northern boundary of the Terminal property. To the south of the Terminal, the drainage is to the northwest. North of the Terminal, across the San Juan River, surface water flows in a southeasterly direction toward the San Juan River. The active portion of the Terminal property is generally of low relief with an overall northwest gradient of approximately 0.02 ft./ft.

The Terminal is bisected by County Road #4990 (Sullivan Road), which runs east-west. The storage tanks (crude oil and liquid products) and wastewater treatment system are located north of the county road. The crude oil and product loading racks, maintenance buildings/90-day storage area, pipeline offices, and transportation truck shop are located south of the county road. There is very little vegetation throughout these areas with most surfaces composed of concrete, asphalt, or gravel. The area between the Terminal and the San Juan River does have limited vegetation on steep slopes that do not support dense vegetation.

SOIL TYPES

Based on the available site-specific and regional subsurface information, the site is underlain by the Quaternary Jackson Lake terrace deposits, which unconformably overlie the Tertiary Nacimiento Formation. The Jackson Lake deposits consist of fine-grained sand, silt, and clay that grades to coarse sand, gravel, and cobble size material closer to the contact with the Nacimiento Formation. The Jackson Lake Formation is over 50 feet thick near the southeast portion of the site and generally thins to the northwest toward the San Juan River.

NEARBY WATER BODIES, STREAMS, WATERCOURSES, AND GROUNDWATER DISCHARGES

Surface waters near the Terminal include the San Juan River and the Hammond Irrigation Ditch. The San Juan River is located to the north of the Terminal and flows west/southwest. The San Juan River is used for potable drinking water for the city of Bloomfield and surrounding areas. Hammond Ditch is located on the north side of the Terminal facilities and flows east to west in this area. Hammond Ditch is a concrete-lined canal built in 2002 and transports water for irrigation and livestock watering only. Other surface water features at the Terminal include evaporation ponds, raw water ponds, and the wastewater treatment surface impoundments, all of which are manmade. There are also two locally significant unnamed arroyos, one immediately east and another immediately west of the Terminal.

Prior to the installation of the slurry wall and groundwater collection system, shallow perched groundwater daylighted through seeps on the bluff north of the Terminal facilities. These seeps have largely gone dry due to groundwater recovery and hydraulic controls established during Site remediation. No other known groundwater discharges are present on or from the Terminal property.

Figure 1 presents nearby water bodies, streams, watercourses, and groundwater discharges located within a 1-mile radius of the Terminal facility boundary.

FACILITY AND NEARBY MONITORING WELLS

Numerous soil borings and monitoring wells have been completed across the Terminal facility during previous environmental site investigations and installation of the slurry wall, which runs along the northern and western Terminal boundary. Groundwater monitoring well locations within and around the Terminal facility are shown on the figure in Appendix B.

NEARBY WATER WELLS

Known fresh-water zones in the immediate area of the Terminal are present within the Tertiary age Nacimiento and Ojo Alamo Formations. One well, Point of Diversion (POD) # SJ-02148 located on the southern boundary of the Terminal, was drilled to a depth of 305 feet below ground surface. This well intersects a water bearing sand unit within the Nacimiento formation between 225 and 285 feet below ground surface and has an estimate yield of 10 gallons per minute. Well SJ-02148 is the deepest water well drilled in the vicinity of the Terminal according to the New Mexico Office of the State Engineer online database.

Figure 2 presents the location of water wells within a quarter-mile radius of the Terminal facility boundary.

SHALLOWEST AQUIFER

The shallow groundwater present at the Terminal consists of a perched aquifer where groundwater migrates through the permeable glacial outwash deposits designated as the Jackson Lake Terrace overlying the nearly impermeable Nacimiento Formation. A permanent shallow aquifer formed above the Nacimiento Formation likely as a result of site development, former refinery operations, and leakage from the Hammond Ditch. Groundwater at the Terminal is present at depths ranging from approximately 6 to 50 feet below ground surface (bgs), increasing in depth from west to east across the site due to the change in surface elevation across the site. Groundwater flow direction is generally from the southeast to the northwest towards the Hammond Ditch. This shallow aquifer is not currently used for drinking water. Below the Nacimiento Formation is the Ojo Alamo sandstone formation, a water-bearing unit used as a potable water source.

Appendix B presents the groundwater potentiometric contours for the shallow aquifer at the Terminal.

GEOLOGICAL CHARACTERISTICS

The Terminal is located within the San Juan Basin, a sub-province of the Colorado Plateau physiographic province. The geologic units that underlie the Terminal are as follows: the uppermost unit consists of unconsolidated surface soils, silts, and fine windblown sands forming loess deposits. The silty fine sand is underlain by the Jackson Lake Terrace deposit, approximately 10 to 15 feet thick. The Jackson Lake Terrace consists of well-rounded boulders, cobbles, gravels, and sands exhibiting moderate to high permeability. Below the Jackson Lake Terrace is the Nacimiento Formation. The Nacimiento Formation is composed of interbedded, black carbonaceous mudstone, siltstone, and argillaceous sandstones. The Nacimiento Formation near the Terminal is approximately 570 feet thick. The Nacimiento Formation demonstrates low permeability and acts as a confining unit for the Jackson Lake Terrace. Below the Nacimiento Formation is the Ojo Alamo Sandstone, a water-bearing unit consisting of tertiary sandstones that is approximately 165 feet thick. The top of the Ojo Alamo Formation is present at depths of approximately 569 to 734 below ground surface. Directly below the Ojo Alamo are the Cretaceous Kirtland Shale and the Fruitland Formation.

Additional details regarding subsurface geology at the Terminal are presented in Appendix C, including depths of geologic formations and a generalized cross section based on several gas production wells in the area.

SITE FLOODING POTENTIAL

The Terminal sits on an alluvial floodplain terrace deposit and there is a steep bluff (approximate drop of 90 feet) at the northern boundary of the Terminal where the San Juan River intersects the floodplain terrace, which marks the southern boundary of the floodplain. There are two locally significant arroyos, one immediately east and another immediately west of the Terminal. These arroyos collect most of the surface water flows in the area, thus significantly reducing surface water flows across the active portion of the Terminal property. There are several steep arroyos located to the west along the northern Terminal boundary on the steep bluff face that capture local surface water flows and minor groundwater discharges. Flooding of the Terminal resulting from surface-water runoff following rainstorms is low. Surface water runoff is controlled through the Terminal stormwater system consisting of a network of berms, embankments, culverts, trenches, ditches, and retention ponds that collect, convey, control, treat, and release stormwater that falls within or passes through Terminal property.

The greatest threat to flooding of the Terminal is the San Juan River at the northern edge of the Terminal property named the "River Terrace". The only facilities/equipment located on the River Terrace is as follows:

- Pump and pumphouse to retrieve water from the San Juan River to supply the Terminal "Freshwater Ponds".
- Groundwater recovery and treatment system consisting of two groundwater recovery wells, five biovent wells, granular activated carbon treatment tanks, and an aboveground storage tank.

History suggests flooding potential of the San Juan River is small. From 1904 until 1976, only 23 flood events (on individual streams, not concurrent on all streams) were recorded. According to a study conducted by the New Mexico Floodplain Managers Association (2003), previous floods of the San Juan River resulted from general rainstorms, snowmelt augmented by rain, and from cloudburst storms. Rain floods usually occur during the months of September and October. This type of flood results from prolonged heavy rainfall over tributary areas and is characterized by high peak flows of moderate duration. Major floods (recurrence interval of 100 or more years) result from excessive snowmelt runoff generated in the watershed upstream from Bloomfield. Flood flows generated by snowmelt generally occur during the period from May through July. Snowmelt flooding is characterized by moderate peak flows, large volume, and long duration, and marked diurnal fluctuation in flow. The main Terminal facilities are elevated above the floodplain of the San Juan River, eliminating the chance of a river flood, such as the ones described above.

GROUNDWATER CHARACTERISTICS

Groundwater at the Terminal is present at depths ranging from approximately 6 to 50 feet below ground surface (bgs), increasing in depth from west to east across the site due to the change in surface elevation across the site. Groundwater flow direction is generally from the southeast to the northwest towards the Hammond Ditch. Based on analytical results presented in the *2020 Groundwater Remediation and Monitoring Annual Report* prepared by Western Refining Southwest LLC for the Terminal, total dissolved solids concentrations in on-site monitoring wells range from 448 to 6,060 milligrams per liter (mg/L).

3 POTENTIAL AND INTENTIONAL DISCHARGE

The following sections describe the potential and intentional discharge sources, storage systems, and waste streams for the Terminal.

3.1 SOURCES AND QUANTITIES OF EFFLUENT AND WASTE

The systems, equipment, or categories summarized in Table 1 are potential sources of effluent and waste generated at the Terminal, including containerized waste for off-site disposal. The volumes are estimates, which can vary significantly depending on facility operational needs. Sources of potential effluent and waste are further described below.

- Wastewater Treatment System Effluent
- Contact Stormwater within Evaporation Ponds
- Recovered Groundwater
- Boiler
- Heater Treater at Terminals
- Boiler Feed Water Treatment System
- Storage Tanks
- API Separator Sludge
- Maintenance Shop
- Recoverable Material
- Process Equipment Cleaning
- Hydrotest Water
- Contact Stormwater

Table 1 describes the processes that create these waste streams, the associated waste type, frequency of generation, discharge location, and estimated discharge volumes.

3.2 ON-SITE DISPOSAL – CLASS I INJECTION WELL UICI 011

The Terminal is permitted for a Class I Injection Well (WDW #2) identified as UICI 011. Injection well details can be found in the permit issued on August 30, 2021 and the injection well permit application approved by OCD on June 8, 2021. Injection Well WDW #2 is set to inject fluids into the Entrada Sandstone Formation. This formation is of Jurassic age and is described as wind-blown deposits of fine to coarse-grained sandstone particles. The Entrada Formation is approximately 200 to 280 feet thick throughout the San Juan Basin and is commonly used for injection of fluids from Class I wells in the area.

Only non-hazardous (RCRA exempt and RCRA non-exempt non-hazardous) waste fluids can be injected into this well. As such, water collected at the Terminal that qualifies under this designation is ultimately disposed on-site through discharge into Injection Well WDW #2. The following section describes the procedures in which water is treated and disposed into the on-site injection well.

3.2.1 WASTEWATER TREATMENT SYSTEM

The Terminal wastewater treatment system is a network of curbing, paving, catch basins, and underground piping that collects rainwater and other effluent from various areas within the Terminal and then conveys this wastewater to the API separator. This wastewater is effluent that may reasonably be expected to come in-contact with hydrocarbon and includes contact stormwater, recovered groundwater, boiler water, heater treater water, water from boiler feed water treatment system, water collected in storage tanks, water generated during process equipment cleaning, and water generated during equipment and pipeline hydrotesting.

The API separator is a large concrete containment structure that uses gravity and residence time to separate wastewater into three components; a sludge layer that sinks to the bottom, a scum layer that floats to the top, and a clarified effluent in the middle. The clarified effluent then flows through two benzene stripper columns. At the stripper columns, ambient air is blown upwards through a falling cascade of clarified wastewater and, as a result, dissolved gases and light hydrocarbons including benzene are removed.

Effluent from the stripper columns flows to a series of three lined aeration lagoons. Each lagoon is equipped with two aerators which effectively strip dissolved gasses and light hydrocarbons from the wastewater. The aerators provide aggressive biological treatment (ABT) through accelerated biological oxidation of waste waters and enhanced biological activity. Effluent from the aeration lagoons flows to the evaporation ponds and/or Class I Injection Well WDW #2.

The evaporation pond acts as a holding basin for excess wastewater and allows for solar and wind-effect evaporation to take place. Water that is not evaporated is pumped to the Class I injection well.

3.2.2 WASTEWATER TREATMENT SYSTEM EFFLUENT CHARACTERISTICS

Fluids to be discharged into Injection Well WDW #2 under this discharge permit will be comprised of effluent from the on-site wastewater treatment system. Appendix D presents a summary of analytical results for fluids being injected through WDW#2. Detected concentrations are representative of the effluent from the wastewater treatment plant that is being injected into the on-site Injection Well WDW #2.

3.3 OFF-SITE DISPOSAL

Existing off-site disposal discharges are described below.

3.3.1 STORMWATER CONVEYANCE

The Terminal stormwater system is a network of berms, embankments, culverts, trenches, ditches, and retention ponds that collect, convey, control, and release stormwater that falls within or passes through Terminal property. Nine stormwater location points that collect and convey only stormwater offsite are included. The locations are described as follows:

- **Location 002** – Sheet flow from the terminal area to a road ditch at northwest corner of the terminal area.
- **Location 003** – Sheet flow from the office, logistics warehouse, warehouse yard, maintenance area, and drum storage rack to a culvert which leads under CR 4990 to a natural retention area.
- **Location 004** – Sheet flow from office, logistics warehouse, warehouse yard, maintenance area, and drum storage rack to a culvert which leads under CR 4990 to a natural retention area.
- **Location 005** – Sheet flow from the Hammond Irrigation Ditch maintenance road and naturally sloping topography into Hammond Irrigation Ditch. No industrial processes are conducted in this area.
- **Location 006** – Sheet flow to an arroyo along western edge of the property boundary. No industrial processes are conducted in this area; therefore, this discharge is not regularly monitored.
- **Location 007** – Sheet flow from Tank 37 and natural drainage in dry washes toward the San Juan River. This discharge is not regularly monitored due to access safety.
- **Location 008** – Sheet flow from the former process area and WWTP to three engineered stormwater containment ponds.
- **Location 009** – Sheet flow from the Tank 38 area and a leased operator well pad into an arroyo at the northern property boundary. An earthen dam was constructed to eliminate stormwater flow offsite via this location.
- **Location 010** – Sheet flow from the evaporation pond area, two leased operators well pads, and the unused area into a natural arroyo.

These nine (9) potential location points are collection points only for surface water run-off. No natural groundwater discharges occur at these locations.

3.3.2 SANITARY SEWAGE SEPTIC FIELDS

Sanitary sewage is treated and released at two septic fields located within the Terminal property line. The system is located at the following areas within the Facility:

- Terminal Main Office (North of County Road 4990)
- Terminal Control Room (South of County Road 4990)

3.3.3 WASTES SHIPPED FOR DISPOSAL

Attached Table 1 includes potential wastes that are generated at the Terminal and require off-site disposal. Table 2 summarizes disposal facilities used by the Terminal for all wastes disposed off-site.

3.4 EXISTING TERMINAL GROUNDWATER IMPACTS

Several historical releases have occurred at the Terminal due to past refinery operations. Groundwater monitoring activities have been conducted at the Terminal since the early 1990's in response to various directives issued by the New Mexico Environment Department (NMED) and NMOCD. Additionally, several remedial actions have been conducted at the Terminal to address historical contamination including bioventing/air sparging and pump and treat methods.

Groundwater and surface water monitoring activities are performed in accordance with a "Facility-Wide Groundwater Monitoring Program" that is updated annually, as required under the 2007 Consent Order issued to the Terminal by the NMED Hazardous Waste Bureau. Activities include sampling in four areas of the Terminal: Terminal Complex, North Boundary Barrier, San Juan River Bluff, and the San Juan River Terrace. Depth-to-groundwater and depth-to-product measurements are collected from facility monitoring, recovery, observation, and collection wells during semi-annual and annual sampling events.

Groundwater and surface water samples are collected and analyzed for various contaminants (depending on the sample location) and include volatile organic compounds (VOCs), metals, total-petroleum hydrocarbons (TPH), and general chemistry parameters (e.g., alkalinity, carbon dioxide, etc.). As of the 2020 groundwater monitoring report, the following constituents are present in groundwater at concentrations greater than the applicable screening levels established for the site: benzene, ethylbenzene, methyl tert-butyl ether (MTBE), xylenes, TPH, chloride, nitrate, nitrite, sulfate, arsenic, barium, chromium, iron, manganese, selenium, and uranium.

Because of the extensive historical sampling and remediation activities that have occurred at the Terminal, this document will not present details regarding the present nature of groundwater impacts. Please refer to the *2020 Groundwater Remediation and Monitoring Annual Report* prepared by Western Refining Southwest LLC and submitted to the NMOCD and NMED for additional details regarding current groundwater conditions at the Terminal.

4 COLLECTION AND STORAGE SYSTEMS

The purpose of the Terminal facility is to transfer crude oil and petroleum products between pipelines, trucks and storage tanks. To ease complications when operational changes occur, much of the information is provided in tables that can be easily updated, if necessary. Crude oil and petroleum products can arrive to the Terminal by pipeline or tanker trucks. The tank farm is a system of storage tanks used throughout the Terminal to hold and store crude oil, petroleum products, fuel additives, and water. These tanks are located above ground and range in size from less than 1,000 barrels to 110,000 barrels. Pumps, valves, and piping systems are used throughout the Terminal to transfer various liquids among tankage and loading racks. Several tank truck loading racks are used to load out petroleum products and receive crude oil and gasoline additives.

Crude oil and different petroleum products (e.g., unleaded gasoline, diesel, ethanol, intermediates, petroleum additives, and trans mix etc.) are stored in aboveground atmospheric tanks. Current tank contents are listed on Table 3. The Terminal also receives, stores, and uses a variety of additives and chemicals that are stored in small volumes in totes and other containers. Examples of the most common materials are listed on Table 4.

The following procedures are used to manage the wastewater effluents and solid waste that are generated within the Terminal as described in Section 3.0.

CONTACT WASTEWATER

Contact wastewater is generated at various storage tanks, utility systems, and maintenance activities. This water is collected in a segregated sewer system located throughout the Terminal, including the tankage areas. This collection system is substantially composed of concrete paving and curbing, concrete catch basins and trenches, and buried concrete and carbon steel pipe. Contact wastewater flows by gravity to the API Separator where solids, sludge, and floating scum are removed. Currently, the effluent from the API Separator flows through air strippers and into a series of three aeration lagoons. Wastewater is then either transferred to the evaporation ponds for evaporation or can be injected underground at the on-site Class I Injection Well WDW #2. Treated wastewater may also be disposed off-site, as necessary, at the facility identified in Table 2.

API SEPARATOR SLUDGE

Oily sediment and sludge accumulate at the bottom of the API Separator. The separator is taken out of service and the bottom sludge is removed via vacuum trucks. This sludge is shipped off-site for recycling and/or disposal at the facility identified in Table 2.

STORAGE TANK BOTTOM SLUDGE

Oily sludge accumulates at the bottom of storage tanks (e.g., crude oil tanks). These tanks are periodically taken out of service for integrity inspections and/or service changes. Commonly sludge from tank cleaning operations is removed via vacuum truck and discharged directly into the API separator or into the Slop Tanks (Tank 8 and Tank 9) for recovery. Oils from the slop tanks and API separator are transferred to the on-site, in-service crude tank. Materials generated during tank cleaning activities that are not suitable for recovery are properly containerized and shipped off-site to an appropriate approved disposal facility identified in Table 2.

MAINTENANCE SHOP

During equipment maintenance, used oils are collected and stored in containers. Periodically, this material is shipped off-site for recycling.

HYDROCARBON IMPACTED SOILS

Nonhazardous soils that are impacted with crude oil or petroleum products are sent off-site for management commonly at one of the facilities listed in Table 2.

MISCELLANEOUS WASTE (E.G., PROCESS FILTERS, SANDBLAST MEDIA, ETC.)

Process filters are a solid non-hazardous waste. When replaced, the used filters are stored on a concrete pad until dry and then are disposed of as special waste at the San Juan County Landfill. Sandblast Media and Boiler Scale are non-hazardous waste that are transported to the San Juan County Landfill for disposal as listed in Table 3. Examples of the various other materials that are sent off-site for either disposal, treatment, reclamation, or waste-to-energy are identified in Table 2.

5 INSPECTION, MAINTENANCE, AND REPORTING

Terminal personnel and contractors routinely conduct inspection, maintenance, and repair of all tanks, equipment, instrumentation, valves, piping, and other items necessary for the continued safe operation of the Terminal. Some of these activities are conducted under the auspices of applicable regulations and involve detailed recordkeeping and reporting. Specific procedures that relate to sources of liquid effluent and solid waste are described below.

CONTACT WASTEWATER COLLECTION SYSTEM

Paving, curbing, catch basins, and trenches are routinely inspected for integrity. As required by OCD, the Terminal utilizes the pressure test technique to verify the integrity of contact sewer system components. This test program will use the OCD methodology and criteria.

The API Separator is emptied and inspected periodically. If a problem is found, it is repaired before placing the API Separator back in service.

Terminal operations personnel routinely conduct visual surveillance of concrete paving, curbing, catch basins, and trenches. Problems with containment systems are reported to the Terminal Manager for scheduled repairs.

STORAGE TANKS, PETROLEUM AND CHEMICAL STORAGE AREAS

Terminal personnel routinely conduct visual surveillance of storage areas and monitor the integrity of containment and check for leakage or other problems. All incidents and near misses are reported to Terminal management and appropriate actions are taken. Additional information can be found in the Terminal's Oil Spill Response Plan and SPCC Plan.

ONGOING GROUNDWATER MONITORING

Currently, groundwater is monitoring in accordance with the Terminal 2021 *Facility-Wide Groundwater Monitoring Plan* that has been accepted by the NMOCD and NMED. Please refer to that plan for additional details.

POND LEAK DETECTION SYSTEM AND MONITORING

As required in the existing Discharge Permit GW-001 for the Terminal, all evaporation and/or aeration lagoons are inspected a minimum of three times per week and after any major storm event or malfunction of the wastewater treatment system. Weekly records are maintained for all flow rates. Other requirements pertaining to the evaporation ponds, pits, and aeration lagoons present at the Terminal can be found in the current Discharge Permit GW-001 dated June 8, 2017.

6 PROPOSED MODIFICATIONS

No modifications of the existing collection, treatment, and/or disposal systems are requested at this time. However, in the case of Terminal expansion, increase in discharge, and/or other significant modifications to the discharge of water, the Terminal will notify NMOCD in writing for review and approval prior to implementing the modification. An application and a description of the requested modifications will be included in the written notice. Modifications to abatement or monitoring plans prepared to address pre-existing contaminants associated with the Site also will be submitted to the regulating agency, as well as the NMOCD, in writing for review and approval.

Additionally, the Terminal has been working closely with NMOCD and New Mexico Environment Department – Hazardous Waste Bureau (NMED-HWB) to resolve contamination issues associated with the Terminal property. All groundwater monitoring activities and RCRA investigation activities are conducted pursuant to Work Plans and Monitoring Plans that are submitted separately for agency review and approval. Summary reports of these activities are submitted separately.

7 CONTINGENCY PLAN FOR RELEASES

The Terminal has developed and implemented a Spill Prevention, Control, & Countermeasures Plan (40 CFR Part 112.7) and Oil Spill Response Plan (40 CFR Part 112.20 & 112.21) as required by the Oil Pollution Act (40 CFR Part 112.7). Additionally, the Terminal has developed and implemented an Emergency Action Plan for responding to potential releases in compliance with 29 CFR 1910.120 “Hazardous Waste Operations and Emergency Response”, 29 CFR 1910.39 “Fire Prevention Plan” and 29 CFR 1910.38 “Emergency Action Plan”. The Terminal also has developed and implemented an Oil Spill Response Plan that is consistent with the requirements listed in 49 CFR 194.107(b).

Responses to spills or releases would fall under the chemical release and/or hazmat spill sections of the Emergency Action Plan (EAP). Response actions under the EAP will vary depending on whether the spill is considered minor (generally less than 25 barrels, can be easily stopped or controlled, and no significant threat to human health and environment) or major (a spill that is greater than 25 barrels and/or cannot be safely controlled or cleaned up by on-site personnel). For *de minimis* (less than 5 barrels) spills, the response will generally involve stopping the release (if applicable), use of absorbent materials, collection and containerization of the spill and any contaminated media, and notification of additional response personnel if needed. Spill kits for minor spills are placed throughout the Terminal and contain absorbent pads, shovels (in some), and 5-gallon bucket.

7.1 SPILL RESPONSE ACTIONS FOR MAJOR RELEASES

When an emergency is discovered, the first person on-scene will initially assume control of the situation until the arrival of a Terminal employee of higher authority. Upon arrival, the Incident Commander (IC) will be responsible to (1) establish on-scene command of the emergency from a location which is upwind of any release and is in a safe area; (2) initiate the Incident Management System (IMS) if necessary; and (3) ensure that the appropriate initial notifications and actions are taken to minimize and control the emergency.

The following general response procedures should be implemented:

- Ensure that all personnel are notified in the immediate area. Isolate the hazard area and deny entry, as appropriate. Establish an initial isolation perimeter and access control points. Keep all non-essential people away from the hazard area.

***NOTE:** Only those individuals directly involved in the emergency response efforts that are properly trained, wearing the proper level of personal protective clothing, and working in pairs (if feasible for terminal technicians) shall be allowed access into the hazard area.*

- Personal protective clothing may include Nomex clothing, self-contained breathing apparatus (SCBA), flash gear, or chemical protective clothing, depending on the nature of the emergency.
- Initiate employee protective actions (e.g., evacuation or protection-in-place), as appropriate.
- If possible, implement immediate control or countermeasures. This includes activating fixed suppression systems, blocking-in operations, etc., based upon the hazard present. If personal health and safety is not assured, do not attempt to re-enter the emergency site.

- Designate a staging area where the emergency response units can safely report to without becoming directly exposed to the emergency release, as appropriate.
- Identify and confirm the nature of the problem, materials involved, and the extent of the area/unit/process involved.
- Identify the hazards and assess the level of risk to terminal personnel, the community, and the environment.
- Implement Emergency Notifications, as appropriate.
- Upon the set-up and activation of the Emergency Operations Center (if necessary), overall command of the incident will be transferred to the Incident Commander in the EOC. Advise the Incident Commander of all emergency actions previously taken or currently being implemented. Command of on-scene operations will remain the responsibility of the On-Scene Commander.

The initial response to all emergencies should be the same four steps: (a) Evaluation, (b) Protection and Site Control, (c) Reporting, and (d) Situation Control or suppression. These four steps should be done quickly and accurately so that proper information can be reported to emergency responders.

a) Evaluate the situation.

- What actions can be taken immediately to stop or minimize the situation?
- Are people injured or endangered?
- Is there a potential for the emergency to escalate?
- What chemicals and equipment are involved?
- What actions should be taken to secure the site to minimize the danger to others?
- Can the actions be safely made wearing your current protective equipment?

b) Protect personnel and others and secure the area of the emergency.

- Position yourself upwind and warn other workers in the area to remain clear. Use barricade tape (if available) or other means to secure the site until additional help arrives.

c) Report the emergency.

- Personnel will notify the site Emergency Coordinator (EC) by telephone, in person, or through another person. The EC shall determine the extent of the emergency and if necessary, summon further assistance by activating the Emergency Notification System. See notification requirements.

d) Control or suppress the situation.

- Only if it is safe to do so, personnel will take incipient response actions to control or suppress the emergency (i.e. – use of fire extinguishers, activation of fire suppression systems, etc.). If hazardous gases or other hazards could be present, personnel will evacuate the scene until properly trained responders arrive.
- All employees in the immediate vicinity of the emergency should assist in controlling the situation and/or securing the area until the additional assistance arrives. Persons shall position themselves upwind and at a safe distance away from the emergency.
- If the emergency is a small or incipient fire, an immediate attempt should be made to extinguish the fire by using stationary or portable fire monitors.
- Employees receive training in the use of this equipment (as applicable) per timelines required by regulation.

7.1.1 INITIAL RESPONSE: HAZARDOUS MATERIALS RELEASE

The Initial Responder is responsible for coordinating the following activities when responding to a hazardous materials release:

- Determine if the release can be controlled. Arrive on scene and assess the release from a safe distance. It is imperative the severity of the hazards is understood so the proper safety equipment is supplied, and the appropriate defensive measures are taken. Safety is always the first priority.
 - Obtain the product SDS.
 - Identify the product hazards
 - Estimate the amount of contamination / concentration of the released material.
 - Conduct initial air monitoring if appropriate.
 - Contact the Terminal Manager.

7.1.2 UNCONTROLLABLE RELEASE

Call 911 to summon the fire department and / or other trained responders if:

- Quantities of hazardous material released may impact the safety of personnel or the environment beyond the terminal boundary.
- If the release cannot be readily controlled, contained and quickly recovered with existing equipment and personnel.
- If a Terminal evacuation is required.

Initiate Release Control Measures:

- Implement process operation control, such as stopping the material flow to control the release by shutting down pumps, closing valves, lowering tank levels, depressurizing/ shutting down equipment, if safe to do so. Eliminate ignition sources.
- Evacuate if necessary. The Initial Responder will coordinate an evacuation and shut down of process equipment as determined by the incident threat. Determine a safe evacuation route and assembly area and broadcast it over the plant radio.
- Provide support to the Fire Department or other responders, including information and resources as necessary.
- Secure the site and control access to the terminal: Limit entry to essential personnel only.
- Obtain help from the Sheriff's Department if necessary. Use caution tape, barricades, barriers etc.
- Make notifications as provided in the notification requirements.

7.1.3 CONTROLLABLE RELEASE

Initiate Release Control Measures:

***NOTE:** Containment, control, clean-up and decontamination actions beyond initial defensive measures shall be determined by the EC with consultation with Emergency Management Group Representative, Environmental and Safety as necessary.*

- Implement process operation control, such as stopping the material flow to control the release by shutting down pumps, closing valves, lowering tank levels, depressurizing/ shutting down equipment, if safe to do so. Eliminate ignition sources.

- Implement Physical control by applying absorbent pads and / or boom or creating berms to contain the release.
 - Chemical releases; small releases should be neutralized as recommended by the safety data sheet. For larger releases dike and pump back and / or apply absorbent material.
 - Consider additional resources which may be employed to control or prevent the release from spreading.
 - Secure the site and control access to the terminal: Limit entry to essential personnel only.
 - Obtain help from the Sheriff's Department if necessary. Use caution tape, barricades, barriers, etc.
 - Make notifications as provided in the notification requirements.
-

7.2 CLEAN-UP MEASURES

For *de minimis* spills (less than 5 barrels), the response will generally involve stopping the release (if applicable), use of absorbent materials, collection and containerization of the spill and any contaminated media, and notification of additional response personnel if needed. Spill kits for these spills are placed throughout the Terminal and contain absorbent pads, shovels (in some), and 5-gallon bucket.

In the event of a minor or major release, the Terminal will work closely with State and Federal regulators to develop a plan for disposal of the waste and cleanup residues. Recovered oil and oily debris will be recycled and reused to the extent feasible. Before disposal or recycling, the oily waste will be sampled, analyzed, and characterized as hazardous or non-hazardous. Cleanup procedures may include absorption, evacuation, and/or excavation.

For a spill on land, it is anticipated that petroleum product would be recoverable. Recovered product would be stored in tanks, trucks, or vessels until the fuel could be recycled. Other waste materials include used absorbent materials, personal protective equipment, and soil. Unused areas at the Terminal could be used for soil storage if needed. For a spill on water, some fuel and significant amounts of contaminated water would be recovered. Liquids would be stored in available tanks, trucks, and vessels until they could be recycled or disposed.

Mitigation and cleanup of material spilled onto unprotected ground will consist of stopping the source of the spill if you can safely do so, removing the spilled material and affected soil, placing the material in sealed drums, characterizing the material, and ultimately shipping to an approved waste treatment and disposal site. Underlying soil will be sampled to assure that all impacted soils have been collected and removed from the spill area. The EC will ensure that all emergency equipment is cleaned, decontaminated, inspected, and fit for use prior to resumption of operations in the affected areas.

7.3 NOTIFICATION REQUIREMENTS

The first person onsite to identify an incident or release will alert the terminal Emergency Coordinator and all personnel of the emergency conditions and hazards posed by the incident or release. If the incident or release is not able to be controlled and contained by onsite and terminal personnel, 911 will be called for immediate emergency response assistance from the local Fire Department, Police Department, Local Emergency Planning Committee (LEPC), and Public Works Department as appropriate. Terminal personnel will initiate an internal "MAPLINE" call

that contacts various company support personnel including emergency response, environmental, and safety professionals. Notification requirements to the National Response Center, New Mexico Oil Conservation Division, New Mexico Environmental Department, the Environmental Protection Agency, and the chemical Safety Board will be initiated (immediately or in writing within applicable reporting timelines) as appropriate once the release volumes or potential off-site impacts are determined.

Additionally, minor releases as defined in 19.15.29 of the New Mexico Administrative Code (NMAC) will be reported to the NMOCD on Form C-141 via the online NMOCD E-Permitting database within 15 days of discovery of a release greater than 5 barrels and less than 25 barrels. Major releases of greater than 25 barrels will be reported to the NMOCD verbally or by e-mail within 24 hours and through the E-Permitting database on Form C-141 within 15 days of the discovery of the release.

7.4 LEAK DETECTION METHODS

Section 5 of the permit application outlines the leak detection system and methods associated with the evaporation and aeration Ponds. Routine visual inspections of waste containers, operating equipment, piping systems, aboveground storage containers, and containment structures are performed during Terminal operations. All visible surfaces are inspected for signs of leaks, corrosion, or deterioration. If any leaks are observed, the cause of the leak is determined and immediately corrected. During the visual inspections, proper labeling of contents must be verified.

Terminal personnel also conduct periodic inspections, specifically around the oil/condensate storage containers, for good housekeeping issues, operation and maintenance issues, soil erosion (if applicable), the condition of structural controls, and secondary containment structures. An integrity testing program has been established for storage tanks pursuant to STI SP001 and API 653 standards and include a combination of periodic inspections completed by company personnel and formal internal and external inspections or leak testing completed by an inspector certified in the appropriate standard.

Daily inspections are performed around the API Separator, aeration ponds, and evaporation ponds for containment integrity, evidence of leaks, and odors. Weekly monitoring is performed on the leak detection systems associated with the evaporation and aeration ponds. Routine groundwater monitoring activities throughout the Terminal are used to verify that no releases have occurred that impact groundwater.

7.5 CONSIDERATION FOR THE 90-DAY BAY AREA

The 90-day hazardous waste accumulation area (90-day area) is located inside the most eastern bay of the Auxiliary Warehouse which is on the southern portion of the terminal. The 90-day area occupies approximately 1,200 square feet. The storage bay has a concrete floor and is enclosed with metal walls and a metal roof. Access is through a walk-in door or garage doors on the north and south ends of the storage bay. This storage area is locked when not in use and key

access is only for specific assigned personnel. The access door is clearly marked with “Hazardous Waste Storage Area” signage.

The 90-day area is used to manage various containers including small containers (5 gallon or less), 55-gallon drums, various size totes, and cubic yard boxes containing any of the hazardous and non-hazardous wastes listed in attached Table 1. Inspections are performed weekly for container integrity, proper labeling, and other potential issues. Emergency equipment located in the immediate vicinity of the hazardous waste storage area includes a fire extinguisher and fire hydrant. The concrete floor is sloped to a metal grated sump that runs most of the length of the storage room. Potential releases in the 90-day area would all be contained within the sump.

8 PUBLIC NOTICE

The Terminal will provide written notice of the Discharge Permit Application by the following methods per Subsection B of 20.6.2.3108 NMAC.

- One sign measuring at least 2 feet by 3 feet will be displayed at the entrance to the Terminal facility located approximately 0.5 miles east of the intersection of Highway 550 and Country Road 4990 (located on the west side of the facility boundary and the north side of County Road 4990) and in a place conspicuous to the public. One additional 2 feet by 3 feet sign will be displayed at the eastern boundary of the facility located approximately 1.25 miles east of the intersection of Highway 550 and Country Road 4990, at a location off-Site, and in a location conspicuous to the public. Both signs will display the public notice in English and Spanish languages.
- Written notice will be given by mail or electronic mail in English and Spanish to owners of all properties within 1/3-mile distance from the property boundary of the Site. A list of surrounding property owners is included in Table 5.
- A synopsis of the notice will be given in English and Spanish languages in a display ad at least 3 inches by 4 inches in a newspaper of general circulation (not in a classified or legal advertisement section) in the Bloomfield, New Mexico area. Western proposes to publish the NMOCD approved notice in the Farmington Daily Times, a newspaper of general circulation in San Juan County, New Mexico.

8.1 SCHEDULE

Western will issue public notice within 30 days after the NMOCD determines the Discharge Permit application is administratively complete. This includes public notice to the newspapers and mailings to the appropriate surface owners identified for distribution. The newspaper publication will run for 1 business day.

Within 15 days of completion of the public notice requirements, Western will submit proof of notice to the NMOCD that includes an affidavit of mailings and a list of property owners, proof of publication in a newspaper, and an affidavit of posting.

8.2 PROPOSED PUBLIC NOTICE

The proposed public notice is presented below and includes the items specified in Subsection F of 20.6.2.3108.

NOTICE OF PUBLICATION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3106 of the New Mexico Administrative Code), the following discharge permit application has been submitted to the Director of the New Mexico Oil Conservation Division (“NMOCD”), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3441:

NMOCD Discharge Permit Number GW-001, Western Refining Southwest LLC (Western) – Bloomfield Products Terminal, 50 County Road 4990, Bloomfield, New

Mexico 87413, Mr. Gary Russell (678-594-6377, gfrussell@marathonpetroleum.com) announces the submittal of a renewal application for the Bloomfield Products Terminal (formerly known as the "Bloomfield Terminal") located approximately 1-mile southeast of the intersection of South Bloomfield Boulevard (Highway 44) and East Broadway Avenue (Highway 64), or east of Highway 44 on Road 4990 (NW/4 NE/4 S/2 NW/4, and the N/2 NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico). Refining operations have ceased at the facility.

The facility is a crude oil and petroleum product transfer and storage facility. The facility stores and transfers crude oil and petroleum products (e.g., unleaded gasoline, diesel, and ethanol). Operations include petroleum products storage, pipeline shipping and receiving, and truck loading and unloading. The discharge permit renewal application is for a 5-year term during which non-hazardous industrial wastewater generated through terminal operation and remediation activities will be injected into the on-property NMOCD-permitted Underground Injection Control Class I (non-hazardous) disposal well (UICI-011 WDW-2). The well is located within the facility property boundary. There are wastewater ponds associated with the well, and other evaporation ponds equipped with aeration at the facility. The renewal application consists of methods and procedures that generate the wastewater, wastewater management, and site investigation/abatement. Any other wastes generated during facility operations will be temporarily stored in tanks or containers and shipped off-site for disposal or recycling at appropriate disposal facilities. The wastewater treatment system volume averages 65 gallons per minute (gpm) and water quality can be characterized by total dissolved solids (TDS) concentration of approximately 5,500 parts per million (ppm). Groundwater most likely to be affected by a spill, leak, or accidental discharge to the subsurface varies at depths ranging from 10 to 30 feet below the ground surface and contains TDS concentrations that vary across the property between 448 and 6,060 ppm. The discharge permit addresses how wastewater will be properly handled, stored, and disposed of, including response and abatement of spills, leaks, and other accidental discharges.

The NMOCD has determined the application is administratively complete and is in the process of preparing a draft permit. The NMOCD shall post notice on its website and distribute notice of the submittal of the renewal application to affected local, state, federal, tribal, or pueblo government agency, political subdivisions, ditch associations, and land grants as identified by the department, and persons on a general and facility-specific list maintained by the department who have requested notice of discharge permit applications. Interested persons may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notices. The NMOCD will also accept comments and statements of interest regarding the draft permit and will create a facility-specific mailing list for persons who wish to receive future notices. Prior to ruling on any proposed permit, the Director shall allow a period of at least (30) days after the draft permit is posted, during which time interested persons may submit comments.

Persons interested in obtaining further information, submitting comments, or requesting to be on a facility-specific mailing list for future notices may contact the Oil Conservation Division contact listed below:

Ms. Leigh Barr
New Mexico Oil Conservation Division
Energy Minerals and Natural Resources Division
1220 South St. Francis Drive
Santa Fe, NM 87505
(505) 490-3894

9 ADDITIONAL INFORMATION

No additional information is necessary at this time to demonstrate that approval of the discharge plan will not result in concentrations more than the standards of 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

10 FACILITY CLOSURE PLAN

As discussed above, the facility operations are complex. Presently, it is not possible to predict how or when the facility will be closed, if ever.

The facility is located on company-owned private land. As portions of the facility cease operation, the equipment is de-inventoried due to environmental and safety reasons. The equipment remains an asset to be re-started, re-purposed or sold. RCRA Remediation is performed under a NMED-HWB Corrective Action Order dated July 27, 2007. The remediation closure costs are estimated on an annual basis and financial assurance is provided to NMED-HWB.

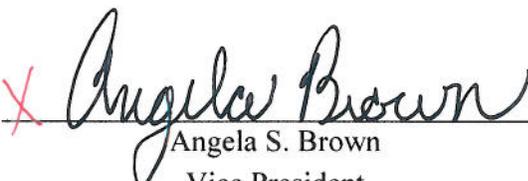
11 GROUNDWATER DISCHARGE PLAN FEE

Pursuant to 20.6.2.3114 NMAC, a filing fee of \$100.00 is being submitted with this application. The permit fee of \$1,200.00 for discharge at a “crude pump station” will be submitted within 30 days of receipt of the approved Discharge Permit.

12 CERTIFICATION

**WESTERN REFINING SOUTHWEST LLC
BLOOMFIELD PRODUCTS TERMINAL
BLOOMFIELD, NEW MEXICO**

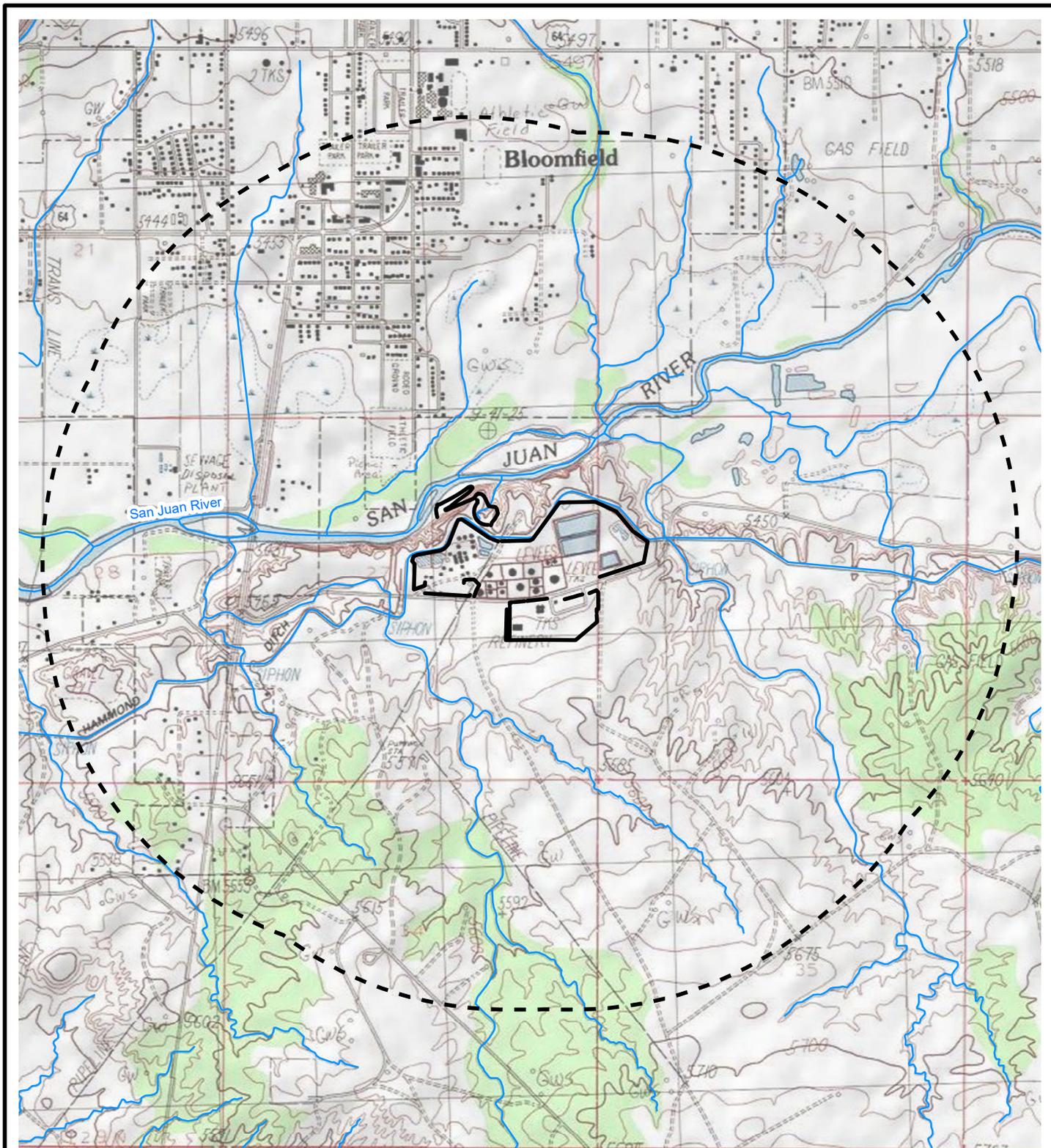
I certify that the information provided in the application is true, accurate, and complete to the best of my knowledge, after reasonable inquiry.

Signature: X  2/7/2022
 Angela S. Brown
 Vice President
 asbrown@marathonpetroleum.com
 Date

REFERENCES

- New Mexico Floodplain Managers Association, 2003, A History of Floods and Flood Problems in New Mexico, LA Bond Associates, High Rolls, New Mexico, 144 p.

FIGURES



LEGEND

-  NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
-  TERMINAL FACILITY BOUNDARY
-  LAKE/POND
-  1-MILE RADIUS

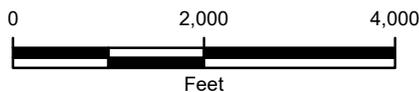


IMAGE COURTESY OF ESRI/USGS



FIGURE 1
 PROXIMITY TO WATER BODIES, STREAMS,
 WATERCOURSES, AND GROUNDWATER DISCHARGES
 BLOOMFIELD PRODUCTS TERMINAL
 50 COUNTY ROAD 4990
 BLOOMFIELD, NEW MEXICO
 WESTERN REFINING TERMINALS, LLC.



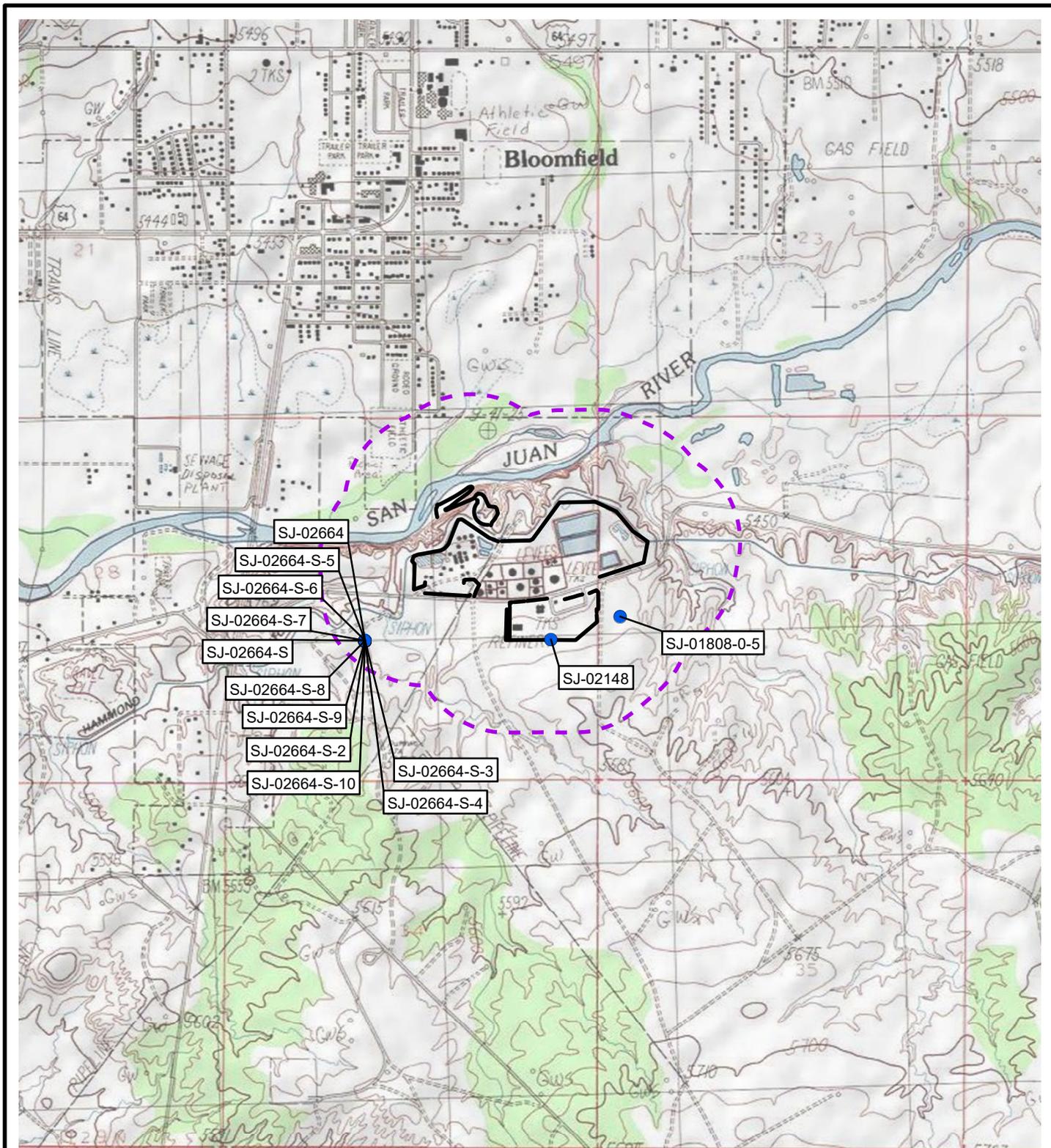


IMAGE COURTESY OF ESRI/USGS

LEGEND

- WATER WELL
- ⋯ QUARTER-MILE RADIUS

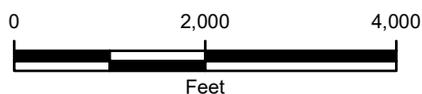


FIGURE 2
PROXIMITY TO WATER WELLS
BLOOMFIELD PRODUCTS TERMINAL
50 COUNTY ROAD 4990
BLOOMFIELD, NEW MEXICO
WESTERN REFINING TERMINALS, LLC.



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TABLES

Table 1
Sources and Quantities of Effluent & Waste Solids Generated at the Facility

Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico

Waste Water Source	Description	Frequency	Discharge Location	Discharge Volume
Wastewater Treatment System Effluent	The wastewater treatment system processes wastewater from the terminal. The system consists of three stages: an API Separator, Benzene Strippers and Aeration Lagoons (aka. Aggressive Biological Treatment). ^{1,2}	Routine	Injection Well WDW #2, UICI 011	October to April - 20 to 50 GPM; April to October - 50 to 100 GPM
Contact Stormwater - Evaporation Ponds	Precipitation (stormwater) that falls into the evaporation ponds is contained and discharged directly to the WDW #2 injection well or evaporated in-place.	Non-Routine	Injection Well WDW #2, UICI 011	Dependent on Precipitation
Recovered Groundwater	Groundwater remediation efforts for the Terminal includes pump and treat remedies. Hydrocarbon impacted water is recovered from multiple recovery wells and the Hammond Ditch French Drain Recovery System. Recovered water containing trace hydrocarbons is discharged to the wastewater treatment system. ^{1,2}	Routine	Injection Well WDW #2, UICI 011	October to April - 15 to 45 GPM; April to October - 30 to 90 GPM
Boiler	Boiler blowdown waste water containing dissolved solids is discharged to the terminal wastewater treatment system.	Routine	Injection Well WDW #2, UICI 011	1,200 gallons per day
Heater Treater at Terminals	Steam is used to separate water from crude oil. Waters separated from the crude oil are discharged to wastewater treatment system.	Routine	Injection Well WDW #2, UICI 011	150 gallons per day
Boiler Feed Water Treatment System	Raw water is treated by this system to remove impurities before being supplied as feed water to the boiler system. Wastewater from water softening units containing dissolved solids is routinely discharged to the wastewater treatment system. ¹	Routine	Injection Well WDW #2, UICI 011	280 gallons per day

Table 1
Sources and Quantities of Effluent & Waste Solids Generated at the Facility

Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico

Storage Tanks	Crude and petroleum storage tanks are occasionally drained of bottom/decanted water. Wastewater containing hydrocarbons and dissolved solids is discharged to the wastewater treatment system.	Non-Routine	Injection Well WDW #2, UICI 011	Dependent on Crude/Product Quality
Storage Tanks	Oily sludge accumulates at the bottom of storage tanks (e.g. crude oil tanks). These tanks are periodically taken out of service and the sludge is removed, containerized, and shipped off-site for oil recovery, treatment, and disposal.	Non-Routine	Off-site disposal	The quantity of this waste varies from 0 to 20 tons per year.
API Separator Sludge	Oily sediment and sludge accumulates at the bottom of the API Separator. The Separator is taken out of service periodically and the bottom sludge removed via vacuum truck. This sludge remains in the truck and is shipped off-site for recycling or as hazardous waste.	Non-Routine	Off-site disposal	Approximately 200,000 - 500,000 pounds of API Separator sludge is removed and recycled periodically.
Maintenance Shop	Most Terminal equipment and mobile equipment is repaired and maintained at the maintenance shop. Used oils are collected and stored in a 250 gallon tote and recycled periodically.	Non-Routine	Off-site disposal	The quantity of this waste ranges from 600 to 800 gallons per year.
Recoverable Material	The recoverable material is processed by the API Separator to recover the oil from water.	Non-Routine	Product Sales or Injection Well WDW #2, UICI 011	Dependent on Water Fraction
Process Equipment Cleaning	Wash water used in maintenance of process equipment. Wastewater containing trace hydrocarbons and dissolved solids is discharged to the wastewater treatment system.	Non-Routine	Injection Well WDW #2, UICI 011	Dependent on Maintenance Scope and Schedule

**Table 1
Sources and Quantities of Effluent & Waste Solids Generated at the Facility**

**Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico**

Hydrotest Water	Water used for Mechanical Integrity Testing (MIT) of equipment such as Tanks, piping, etc. Wastewater containing trace hydrocarbons and dissolved solids is discharged to the wastewater treatment system.	Non-Routine	Injection Well WDW #2, UICI 011	Dependent of MIT Scope and Schedule
Contact Stormwater	Stormwater exposed to contaminants by contact with process equipment is contained and discharged to the wastewater treatment system. Contact storm water may contain trace hydrocarbons and dissolved solids.	Non-Routine	Injection Well WDW #2, UICI 011	Dependent on Precipitation

Notes:

1. Contact Sewer System conveys waste water from various collection points to the waste water treatment system.
2. The River Terrace recovered groundwater is treated using a Granular Activated Carbon (GAC) System. The GAC effluent is recycled in the terminal raw water system.

**Table 2
Off-Site Disposal Facilities**

**Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico**

Disposal Facility	Disposal Facility Type	Wastes Shipped for Disposal
Agua Moss Sec 2E, T29N, R12W San Juan County, NM	Injection Well	Non-Hazardous Liquids
WCA Bondad Landfill 1500 Road 318 Bondad, CO 87413	Landfill	Concrete Boiler Scale
Envirotech #43 Road 7175 South of Bloomfield, NM 87413	Landfarm	Petroleum Impacted Soils Crude Impacted Soils
Safety-Kleen Various Locations	Re-Refiner	Used Oils
Waste Management #78 County Road 3140 Aztec, NM 87410	Landfill	Petroleum Impacted Soils and Debris Sandblast Media Crude Impacted Soils and Debris Used Tires Roof Seal Debris Process Filters
Clean Harbors Various Locations	Reclamation Incineration	Ethylene Glycol Contaminated Absorbents Petroleum Impacted Soils and Debris
Covanta 2122 S. Yukon Ave Tulsa, OK 74107	Waste to Energy	Used Hoses Tank Bottoms Crude Impacted Soils and Debris

**Table 3
Storage Tank Contents**

**Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico**

Tank ID	Contents	Capacity (bbls)
2	Filter Water	67,000
3	Empty	10,000
4	Empty	10,000
5	Contact Stormwater	10,000
8	Recovered Oils	500
9	Empty	500
11	Crude Oil	55,000
12	Crude Oil	55,000
13	Petroleum Products	30,303
14	Petroleum Products	30,097
17	Empty	40,000
18	Petroleum Products	55,000
19	Empty	36,000
20	Petroleum Products	20,000
23	Petroleum Products	40,000
24	Petroleum Products	10,000
25	Petroleum Products	10,000
26	Empty	4,000
27	Empty	10,000
28	Crude Oil	80,000
29	Empty	17,000
30	Empty	17,000
31	Crude Oil	110,000
32	Petroleum Products	20,000
33	Empty	360
35	Petroleum Products	50,000
36	Petroleum Products	50,000
37	Recovered Groundwater	120
38	Recovered Groundwater	400
41	Crude Oil	2,800
42A	Oily Water	400
42B	Oily Water	400
44	Ethanol	1,838
45	Ethanol	5,335

Notes:

1. Contents listed are subject to change based on Terminal Operations.
2. bbls = barrels

Table 4
Containerized Material

Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico

Warehouse
Oil Red B4 ASW (1,000 L)
Fuel Corrosion Inhibitor (1,000 L)
Gasoline (4,000 gal)

Firehouse #2
Diesel Farm Tank (560 gal)
Diesel Farm Tank (260 gal)

Tank 2 Firehouse
Diesel Farm Tank (130 gal)
Diesel Farm Tank (500 gal)
Diesel Farm Tank (500 gal)

Near API
Diesel Farm Tank (300 gal)
Diesel Farm Tank (500 gal)

LACT
Entergrate 2710 (330 gal)

Crude Receiving Area
Methanol (1,000 gal)

Notes:

L - liter

gal - gallon

**Table 5
Public Notice Mailing List**

**Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico**

Parcel Number	Parcel Owner	Mailing Address	Parcel Address	Property Type/Use
2062169010163	WOOTEN JOHN	1812 E 23RD ST, FARMINGTON, NM 87401	101 ROAD 4990, BLOOMFIELD, NM 87413	RESIDENTIAL
2062169396264	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	109 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2063169012142	WOOTEN CARROLL W	103 ROAD 4990, BLOOMFIELD, NM 87413	103 ROAD 4990, BLOOMFIELD, NM 87413	RESIDENTIAL
2062170462066	ATKINSON JOYCE	525 S JOHNSON, BLOOMFIELD, NM 87413-6615	525 S JOHNSON ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253052	MYERS BRIAN AND ROCHELLE	708 S 1ST ST, BLOOMFIELD, NM 87413	708 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170297005	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	S 1ST ST, BLOOMFIELD, NM 87413	EXEMPT
2063170299070	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	701 S 2ND ST, BLOOMFIELD, NM 87413	EXEMPT
2063169201472	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	, BLOOMFIELD, NM 87413	EXEMPT
2063169330359	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	S BLOOMFIELD BLVD, BLOOMFIELD, NM 87413	EXEMPT
2063169330330	F AND B LLC	P O BOX 189, BLOOMFIELD, NM 87413	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2063169404474	WOODALL GARY W	500 EASY LIVIN LN, BLOOMFIELD, NM 87413	500 EASY LIVIN LN, BLOOMFIELD, NM 87413	VACANT LAND
2063170206021	MEDINA LOYDE AND GLORIA	39 ROAD 5510, BLOOMFIELD, NM 87413	747 S CREAMER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219065	SANCHEZ MONICA	3422 E MORENCI RD, SAN TAN VALLEY, AZ 85143	614 S TURNER, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219078	TURNER NO 600 AND 602 LLC	12 ROAD 3773, FARMINGTON, NM 87401	602 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219053	KEMP JUDITH ET AL	601 SAGEBRUSH, DALHART, TX 79022	732 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239053	HEFNER ANDREW AND JANICE TRUST	P O BOX 2171, FARMINGTON, NM 87499	711 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063169443406	CAMPBELL LONNIE R AND JOY N	948 S BLOOMFIELD BLVD, BLOOMFIELD, NM 87413-0000	948 S BLOOMFIELD BLVD, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170206001	BROWN BROCK	5500 GREENS COURT, FARMINGTON, NM 87402	BLUFFVIEW AVE, BLOOMFIELD, NM 87413	VACANT LAND
2063170146066	TRIBBLE DAPHNE KIM AND TRIBBLE ELINOR D	600 S JOHNSON, BLOOMFIELD, NM 87413	600 S JOHNSON ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219028	JOHNSON ROBERT L	740 S TURNER ST, BLOOMFIELD, NM 87413	740 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253015	BLOOMFIELD CHRISTIAN COOP	748 S 1ST ST, BLOOMFIELD, NM 87413	748 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219022	WHITE KELLY S AND BOBBIE A ZEMANKE	PO BOX 555, BLOOMFIELD, NM 87413	748 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239041	SALAZAR BAILON AND LOURDES	727 S TURNER, BLOOMFIELD, NM 87413-6208	727 S TURNER, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170258003	CHAVEZ HENRIETTA AND NIETO MARGARET	717 MONELL DR NE, ALBUQUERQUE, NM 87123	101 BLUFFVIEW AVE, BLOOMFIELD, NM 87413	VACANT LAND
2063169399438	BLOOMFIELD MUNICIPAL SCHOOLS	325 N BERGIN LN, BLOOMFIELD, NM 87413-6729	S BLOOMFIELD BLVD, BLOOMFIELD, NM 87413	EXEMPT
2063170206053	DONALSON PAM	P O BOX 941, BLOOMFIELD, NM 87413-0941	741 N CREAMER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170179072	MEDINA AUDIE AND YVETTE ET AL	39 ROAD 5510, BLOOMFIELD, NM 87413	N CREAMER ST, BLOOMFIELD, NM 87413	VACANT LAND
2063170206072	PEARCE 207 B AND 202 SSP LLC	12 ROAD 3773, FARMINGTON, NM 87401	207 E PEARCE AVE, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239029	FREUDENBURG NORMA JENNELLA	741 S TURNER ST, BLOOMFIELD, NM 87413	741 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170389165	HENDERSON R J TRUST	PO BOX 691, BLOOMFIELD, NM 87413	US 550, BLOOMFIELD, NM 87413	AGRICULTURAL
2063170250003	SINGLETON SHERMAN AND HELEN R TRUST	2001 E MAIN, FARMINGTON, NM 87401-7713	107 BLUFFVIEW AVE, BLOOMFIELD, NM 87413	RESIDENTIAL
2063169099165	HYP INC	7 ROAD 2794, AZTEC, NM 87410	75B ROAD 4990, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253022	HOLGATE ROBERT C	16 RD 2957, AZTEC, NM 87410-9706	712 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253060	MONTOYA ANTHONY	704 S 1ST ST, BLOOMFIELD, NM 87413	704 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170206066	PEARCE 207 B AND 202 SSP LLC	12 ROAD 3773, FARMINGTON, NM 87401-1032	202 SOUTHSIDE PL, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170218001	SALMON RUINS RV PARK LLC	2001 E MAIN ST, FARMINGTON, NM 87401	207 BLUFFVIEW AVE, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239022	SMITH MICHAEL AND JESSIE TRUST	743 S TURNER, BLOOMFIELD, NM 87413	743 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253046	EATON GWENDOLYN	716 S 1ST ST, BLOOMFIELD, NM 87413	716 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063169066330	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	89 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2063169415421	DEAN LB ESTATE	410 HUNTINGTON CIR, BLOOMFIELD, NM 87413	HUNTINGTON PL, BLOOMFIELD, NM 87413	VACANT LAND
2063170239016	COLE DOUGLAS C AND SHERRY R	5923 US 64, FARMINGTON, NM 87401	745 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239035	YOCUM CODY AND AUTUMN	108 E PEARCE, BLOOMFIELD, NM 87413	735 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239047	SALAZAR JUAN B AND LOURDES R	727 S TURNER, BLOOMFIELD, NM 87413	719 S TURNER, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239066	WAMPLER JULIE MARIE	619 S TURNER ST, BLOOMFIELD, NM 87413	619 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063169269297	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2063169111163	TCS SHOP LLC	515 SUMMER SOLSTICE CIR, FARMINGTON, NM 87401	73 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2063169198396	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	50 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2063169284320	SAN JUAN REFINING COMPANY ATTN WESTERN	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	ROAD 4990, BLOOMFIELD, NM 87413	Vacant Land
2063169429330	F AND B LLC	P O BOX 187, BLOOMFIELD, NM 87413	ROAD 4990, BLOOMFIELD, NM 87413	Vacant Land
2063169330380	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	S BLOOMFIELD BLVD, BLOOMFIELD, NM 87413	EXEMPT
2063170179027	MEDINA AUDIE A AND YVETTE ET AL	39 ROAD 5510, BLOOMFIELD, NM 87413	602 S CREAMER ST, BLOOMFIELD, NM 87413	Vacant Land
2063170206034	DONALSON PAM	P O BOX 941, BLOOMFIELD, NM 87413	735 N CREAMER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170219034	KEMP JUDITH ET AL	601 SAGEBRUSH, DALHART, TX 79022	732 S TURNER ST, BLOOMFIELD, NM 87413	Vacant Land

**Table 5
Public Notice Mailing List**

**Bloomfield Products Terminal
Western Refining Terminals, LLC
San Juan County, New Mexico**

Parcel Number	Parcel Owner	Mailing Address	Parcel Address	Property Type/Use
2063170219059	ABEYTA LEO	P O BOX 901, IGNACIO, CO 81137	700 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170227002	BUSER DALE F JR AND LAVEDA J	601 MC KEE DR, GALLUP, NM 87301	205 BLUFFVIEW AVE, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253038	OLGUIN RAYMOND J AND LINDA I	724 S 1ST ST, BLOOMFIELD, NM 87413	724 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239060	JOHNSON SONDR A G	703 S TURNER ST, BLOOMFIELD, NM 87413-6208	703 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170239072	MUKAI EDDIE S AND ROSENDA J	15202 N 62ND DR, GLENDALE, AZ 853063286	611 S TURNER ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2063170253030	BYLAND RICHARD M	1511 N 1ST ST, BLOOMFIELD, NM 87413-5434	706 S 1ST ST, BLOOMFIELD, NM 87413	RESIDENTIAL
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169044165	KAIME JOE N TRUSTEES	PO BOX 495, BLANCO, NM 87412	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2063169044165	KAIME JOE N TRUSTEES	PO BOX 495, BLANCO, NM 87412	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2063169297462	BLOOMFIELD CITY OF	P O BOX 1839, BLOOMFIELD, NM 87413	800 S 1ST ST, BLOOMFIELD, NM 87413	EXEMPT
2062169330462	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL
2062169330462	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL
2062169396264	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	109 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169012142	WOOTEN CARROLL W	103 ROAD 4990, BLOOMFIELD, NM 87413	103 ROAD 4990, BLOOMFIELD, NM 87413	RESIDENTIAL
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169330330	F AND B LLC	P O BOX 189, BLOOMFIELD, NM 87413	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169099165	HYP INC	7 ROAD 2794, AZTEC, NM 87410	75B ROAD 4990, BLOOMFIELD, NM 87413	RESIDENTIAL
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2062169462056	GIANT INDUSTRIES ARIZONA INC ATTN WESTER	1250 W WASHINGTON ST STE 101 TEMPE, AZ 85281,	---	VACANT LAND
2062169462056	GIANT INDUSTRIES ARIZONA INC ATTN WESTER	1250 W WASHINGTON ST STE 101 TEMPE, AZ 85281,	---	VACANT LAND
2063169269297	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169198396	SAN JUAN REFINING COMPANY ATTN WESTERN R	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	50 ROAD 4990, BLOOMFIELD, NM 87413	COMMERCIAL
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169284320	SAN JUAN REFINING COMPANY ATTN WESTERN	1250 W WASHINGTON ST STE 101, TEMPE, AZ 85281	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169429330	F AND B LLC	P O BOX 187, BLOOMFIELD, NM 87413	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2063169044165	KAIME JOE N TRUSTEES	PO BOX 495, BLANCO, NM 87412	ROAD 4990, BLOOMFIELD, NM 87413	VACANT LAND
2062169462120	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL
2062169462120	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL
2062169462056	GIANT INDUSTRIES ARIZONA INC ATTN WESTER	1250 W WASHINGTON ST STE 101 TEMPE, AZ 85281,	---	VACANT LAND
2062169462056	GIANT INDUSTRIES ARIZONA INC ATTN WESTER	1250 W WASHINGTON ST STE 101 TEMPE, AZ 85281,	---	VACANT LAND
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2099199900900	FEDERAL	---	70 ROAD 3536, BLOOMFIELD, NM 87413	EXEMPT
2062169462120	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL
2062169462120	EL PASO NATURAL GAS CO	P O BOX 1087 COLORADO SPRINGS, CO 80944,	---	COMMERCIAL

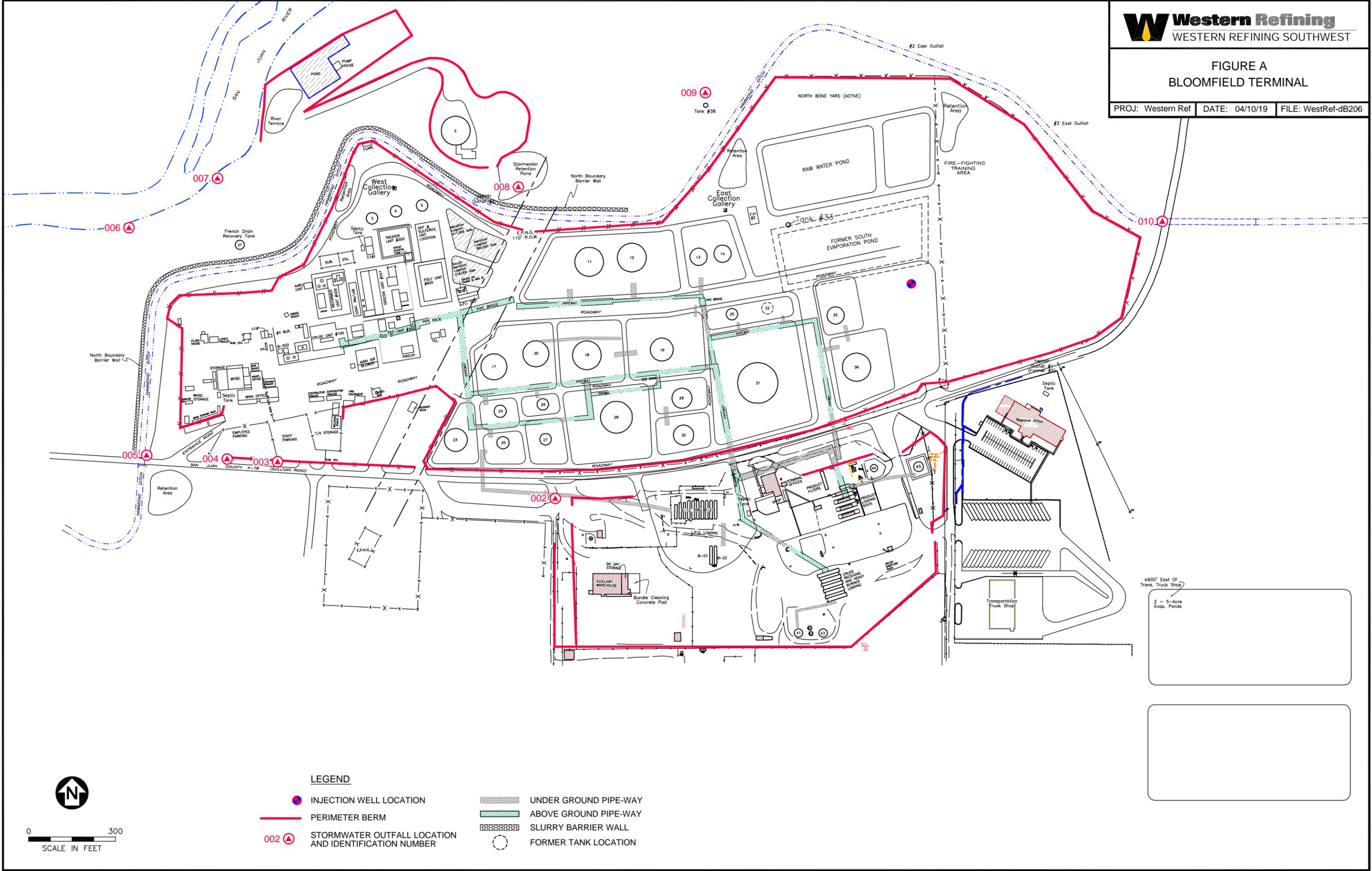
APPENDIX

APPENDIX A – BLOOMFIELD PRODUCTS TERMINAL SITE FIGURE



FIGURE A
BLOOMFIELD TERMINAL

PROJ: Western Ref DATE: 04/10/19 FILE: WestRef-dB206



- LEGEND**
- STORMWATER OUTFALL LOCATION AND IDENTIFICATION NUMBER
 - PERIMETER BERM
 - INJECTION WELL LOCATION
 - UNDER GROUND PIPE-WAY
 - ABOVE GROUND PIPE-WAY
 - SLURRY BARRIER WALL
 - FORMER TANK LOCATION



0 300
SCALE IN FEET

±600' East Of
Trans. Truck Shop
2 ~ 5-Acre
Evap. Ponds



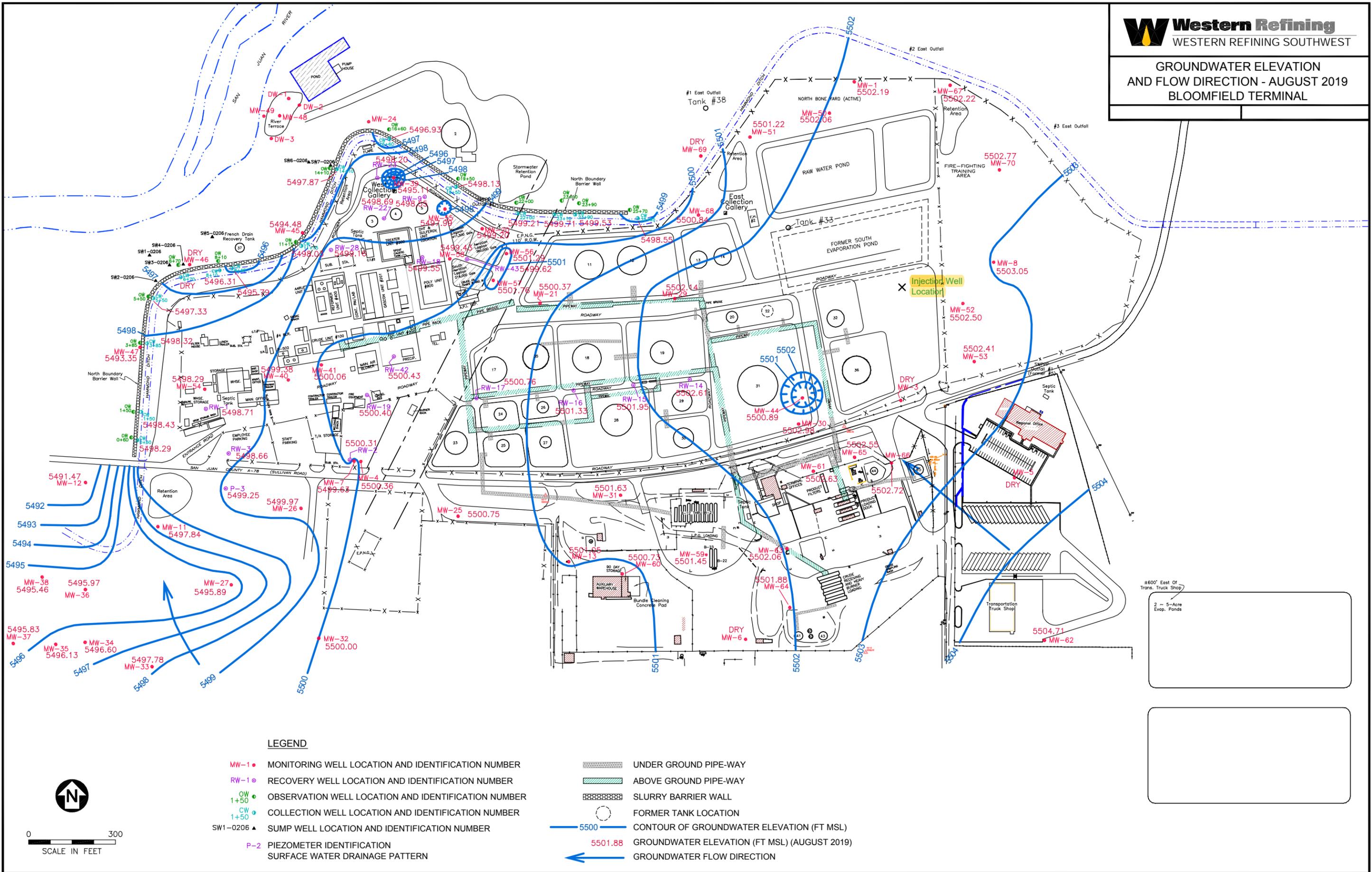
APPENDIX

APPENDIX B – GROUNDWATER MONITORING WELL LOCATIONS AND INFERRED GROUNDWATER FLOW DIRECTION FIGURE



WESTERN REFINING SOUTHWEST

GROUNDWATER ELEVATION AND FLOW DIRECTION - AUGUST 2019
BLOOMFIELD TERMINAL



LEGEND

- MW-1 ● MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- RW-1 ● RECOVERY WELL LOCATION AND IDENTIFICATION NUMBER
- OW 1+50 ● OBSERVATION WELL LOCATION AND IDENTIFICATION NUMBER
- CW 1+50 ● COLLECTION WELL LOCATION AND IDENTIFICATION NUMBER
- SW1-0206 ▲ SUMP WELL LOCATION AND IDENTIFICATION NUMBER
- P-2 ▲ PIEZOMETER IDENTIFICATION
- 5500 — CONTOUR OF GROUNDWATER ELEVATION (FT MSL)
- 5501.88 GROUNDWATER ELEVATION (FT MSL) (AUGUST 2019)
- ← GROUNDWATER FLOW DIRECTION
- ▬ UNDER GROUND PIPE-WAY
- ▬ ABOVE GROUND PIPE-WAY
- ▬ SLURRY BARRIER WALL
- FORMER TANK LOCATION



0 300
SCALE IN FEET

±600' East Of
Trans. Truck Shop
2 ~ 5-Acre
Evap. Ponds

APPENDIX

APPENDIX C – GEOLOGICAL FORMATIONS AND CROSS SECTION

Waste Disposal Well (WDW) #2

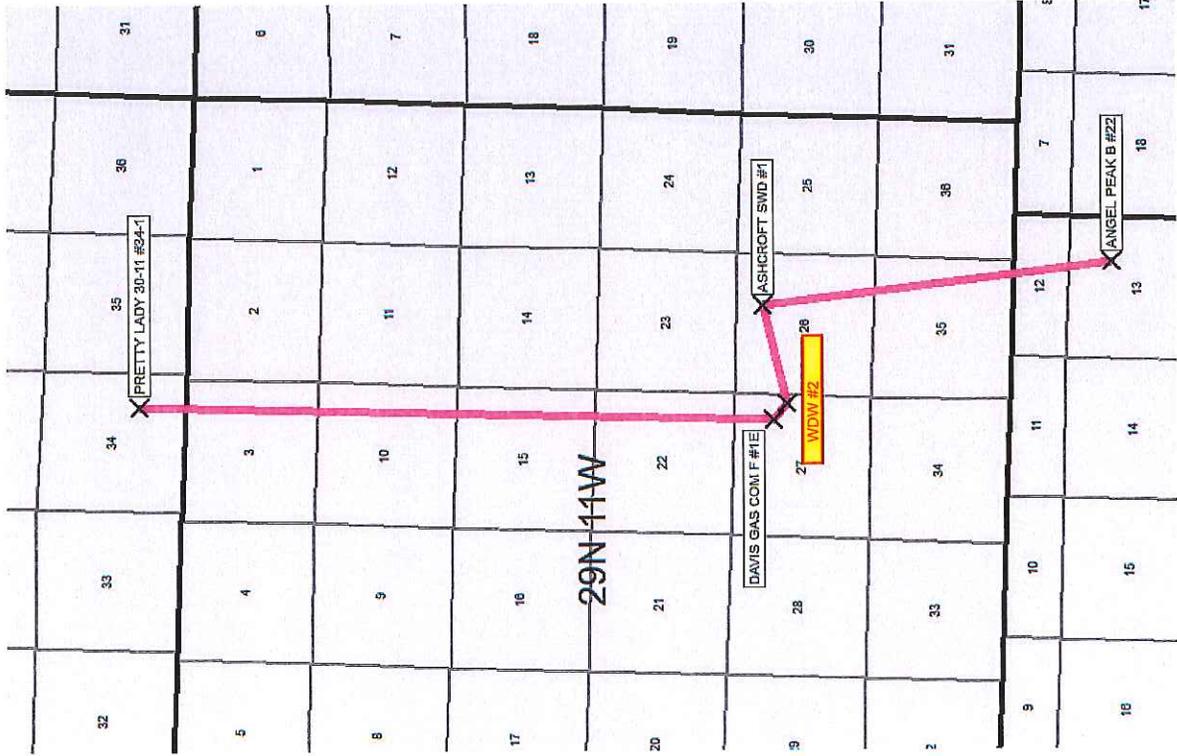
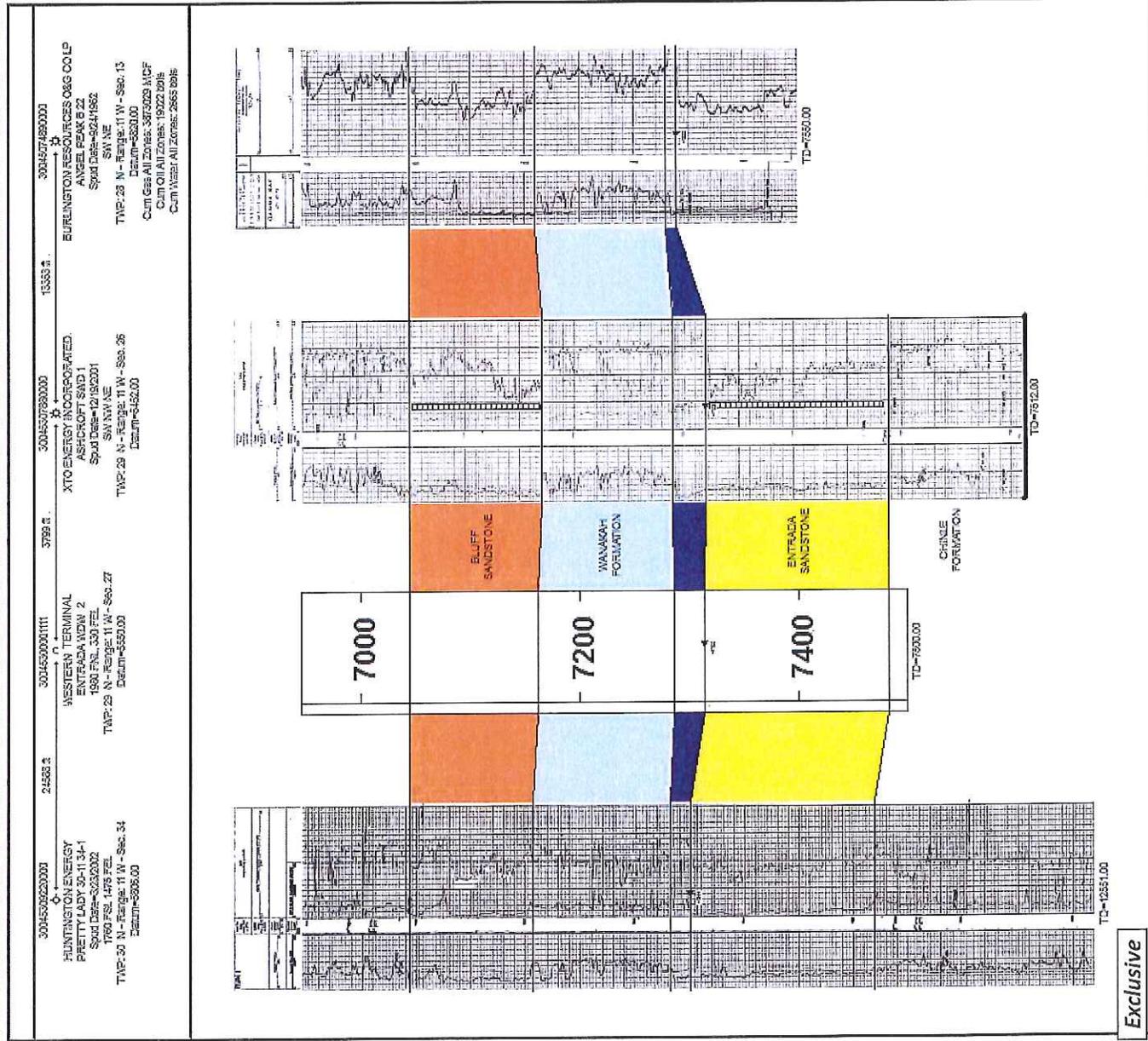
Geologic Prognosis Entrada & Bluff WDW, San Juan County

Header
 Well Name & Number: Waste Disposal Well (WDW) #2
 API: Pending Latitude (NAD 83): 36.698499 Objective: Entrada & Bluff FM Water Disposal Longitude (NAD 83): -107.971156 Location: TWP: 29 N - Range: 11 W - Sec. 27 Field: Basin
 Surface Location Footage: 1980 FNL, 330 FEL County: San Juan
 Bottom Hole Location Footage: Same as Surface State: New Mexico Lease: GL Elevation:
 5538
 Surface Owner: KB Elevation: 5550
 Type: Proposed TD: 7500 November 25, 2015
 Expiration Date: Proposed Plugback: Geologist: Peter Kondrat Depth:

Formation Tops	Top MD (KB)	Top Subsea (KB)	Thickness (FT)	Rock Type	Drilling Notes	Depositional Environment
Quaternary Alluvium	0	5550	10	Unconsolidated Gravels	Boulders, water, lost circulation	Continental Rivers
Nacimiento FM	10	5540	505	Shale & Sandstone	Water, gas	Continental Rivers
Ojo Alamo Sandstone	515	5035	110	Sandstone & Shale	Water, gas	Continental Rivers
Kirtland Shale	625	4925	578	Interbedded Shale, sandstone	Water, gas	Coastal to Alluvial Plain
Fruitland FM	1203	4347	515	Interbedded Shale, sandstone & coal	Coalbed methane	Coastal Plain
Pictured Cliffs Sandstone	1718	3832	162	Sandstone	Gas, water	Regressive Marine Beach
Lewis Shale	1880	3670	760	Shale, thin limestones	Gas	Offshore Marine
Huerfano Bentonite Bed	2660	2890	28	Altered volcanic ash, bentonite bed	Swelling clay	Volcanic Ash Layers
Chacra FM	2688	2862	189	Sandstone, siltstone	Gas, Water	Offshore Marine Sands
Lower Lewis Shale	2877	2673	458	Shale, thin limestones	Gas, Water	Offshore Marine
Cliff House Sandstone	3335	2215	59	Sandstone	Gas, Water, Oil	Transgressive Marine Beach
Menefee Member	3394	2156	643	Interbedded Shale, sandstone & coal	Gas, Water, Oil	Coastal Plain
Point Lookout Sandstone	4037	1513	386	Sandstone	Gas, Water, Oil	Regressive Marine Beach
Mancos Shale	4423	1127	869	Shale, thin sandstones & siltstones	Gas, Water, Oil	Offshore Marine
Niobrara A	5282	258	102	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Niobrara B	5394	156	123	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Niobrara C	5517	33	82	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Gallup FM	5589	-49	243	Interbedded Shale, sandstone	Oil, Gas, Water	Regressive Marine to Coastal Deposit
Juana Lopez FM	5842	-292	123	Shale, thin limestones	Oil, Gas, Water	Offshore Marine
Carlile Shale	5865	-415	95	Shale, thin limestones	Oil, Gas, Water	Offshore Marine
Greenhorn Limestone	6060	-510	56	Limestone	Oil, Gas, Water	Offshore Marine
Graneros Shale	6116	-566	33	Shale	Oil, Gas, Water	Offshore Marine
Dakota FM	6149	-589	216	Sandstone, shale & coals	Oil, Gas, Water	Transgressive Coastal Plain to Marine
Burro Canyon FM	6365	-815	46	Sandstones, some conglomerate & mudstone	Oil, Gas, Water	Braided Fluvial Fill
Morrison FM	6411	-861	635	Mudstones, sandstone	Oil, Gas, Water	Continental Rivers
Bluff Sandstone (aka Junction Creek Sandstone), Morrison FM Member	7046	-1496	118	Sandstone	Oil, Gas, Water	Alluvial Plain and Eolian
Wanakah FM	7164	-1614	123	Siltstone, Sandstone	Oil, Gas, Water	Alluvial Plain and Eolian
Todilto Limestone & Anhydrite	7287	-1737	28	Interbedded Limestone & Anhydrite	Oil, Gas, Water, Anhydrite	Alluvial Plain and Eolian
Entrada Sandstone	7315	-1765	168	Sandstone	Oil, Gas, Water	Eolian Sand Dunes
Chinle FM	7483	-1933	17	Interbedded Shale, sandstone	Oil, Gas, Water	Continental Rivers
Proposed TD	7500	-1950		TD designed for complete log coverage over Entrada Sandstone.		

Notes: Any significant flow rates, abnormal pressures, lost circulation, sticking, fluid loss or gain immediately notify company man, drilling superintendent and/or drilling engineer.

Regional Bluff & Entrada Sandstones Cross-Section



Exclusive

APPENDIX

APPENDIX D – EFFLUENT WATER ANALYTICAL RESULTS

Attachment B - Analytical Summary

		Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter 3/25/2020	2nd Quarter 6/30/2020	3rd Quarter 9/18/2020	4th Quarter 12/18/2020
Volatile Organic Compounds (mg/L)							
D029	1,1-Dichloroethene	0.70	5	< 0.20	<0.70	<0.70	<0.70
D028	1,2-Dichloroethane (EDC)	0.50	10	< 0.20	<0.50	<0.50	<0.50
D027	1,4-Dichlorobenzene	7.5		< 0.20	<7.5	<7.5	<7.5
D035	2-Butanone (MEK)	200		< 2.0	<200	<200	<200
D018	Benzene	0.50	10	< 0.50	<0.50	<0.50	<0.50
D019	Carbon Tetrachloride	0.50	10	< 0.20	<0.50	<0.50	<0.50
D021	Chlorobenzene	100		< 0.20	<100	<100	<100
D022	Chloroform	6.0	100	< 0.20	<6.0	<6.0	<6.0
D033	Hexachlorobutadiene	0.50		< 0.20	<5.0	<5.0	<5.0
D039	Tetrachloroethene (PCE)	0.70	20	< 0.20	<0.70	<0.70	<0.70
D040	Trichloroethene (TCE)	0.50	100	< 0.20	<0.50	<0.50	<0.50
D043	Vinyl chloride	0.20	1	< 0.20	<0.20	<0.20	<0.20
Semi-Volatile Organic Compounds (mg/L)							
D027	1,4-Dichlorobenzene	7.5		<0.01	<7.5	<7.5	<7.5
D041	2,4,5-Trichlorophenol	400		<0.01	<4000	<400	<400
D042	2,4,6-Trichlorophenol	2.0		<0.01	<20	<2.0	<2.0
D030	2,4-Dinitrotoluene	0.13		<0.01	<1.3	<1.3	<0.13
D023	2-Methylphenol (o-Cresol)	200		<0.01	<2000	<200	<200
D024, D025	3+4-Methylphenol (m, p-Cresol)	200		<0.01	<2000	<200	<200
D032	Hexachlorobenzene	0.13		<0.01	<1.3	<0.13	<0.13
D033	Hexachlorobutadiene	0.50		<.020	<5.0	<0.50	<0.50
D034	Hexachloroethane	3.0		<0.01	<30	<3.0	<3.0
D036	Nitrobenzene	2.0		<0.01	<20	<2.0	<2.0
D037	Pentachlorophenol	100		<0.020	<1000	<100	<100
D038	Pyridine	5.0		<0.03	<50	<5.0	<5.0
General Chemistry (mg/L unless otherwise stated)							
	Specific Conductance (umhos/cm3)			4500	4500	3800	3400
	Bromide			4	4.0	3.2	1.6
	Chloride		250 *	1200	1200	830	890
	Fluoride			<2.0	< 0.50	<0.50	<0.50
	Nitrate + Nitrite as N			<0.50	< 0.50	<1.0	<1.0
	Phosphorus, Orthophosphate (As P)			<2.5	< 2.5	<2.5	<2.5
	Sulfate		600 *	87	78	86	72
	Total Dissolved Solids		10,000	2920	2870	2190	1950
	pH (pH Units)			7.27	7.77	7.71	7.96
	Bicarbonate (As CaCO3)			569	647.1	626.3	349.6
	Carbonate (As CaCO3)			<2.0	<2.0	<2.0	<2.0
	Total Alkalinity (as CaCO3)			569	647.1	626.3	349.6
	Oxidation-Reduction Potential (mV)			6.2	37.7	179	24
	Specific Gravity			0.993	0.9946	0.9958	0.999
Total Metals (mg/L)							
D004	Arsenic	5.0		< 0.030	< 0.030	<0.030	<5.0
D005	Barium	100		0.32	0.22	0.27	<100
D006	Cadmium	1.0		< 0.0020	< 0.0020	<0.0020	<1.0
D007	Chromium	5.0		< 0.0060	< 0.0060	<0.0060	<5.0
D008	Lead	5.0		< 0.020	< 0.020	<0.020	<5.0
D010	Selenium	1.0		< 0.050	< 0.050	<0.050	<1.0
D011	Silver	5.0		< 0.0050	< 0.0050	<0.0050	<5.0
D009	Mercury	0.2	0.002	< 0.00020	<0.0010	<0.00020	<0.020
Dissolved Metals (mg/L)							
	Calcium		0.01	90	73	79	87
	Magnesium			53	52	43	22
	Potassium			< 20	13	13	55
	Sodium			830	910	650	500
Ignitability, Corrosivity, and Reactivity							
D003	Reactive Cyanide (mg/L)			<0.005	<0.005	<0.00500	<0.00500
D003	Reactive Sulfide (mg/L)			0.32	0.833	<0.0500	0.213
D001	Ignitability (° F)	< 140° F		>170	>170	>170	>170
D002	Corrosivity (pH Units)	≤ 2 or ≥ 12.5	6-9	7.27	7.63	7.82	7.36
Pesticides (mg/L)							
	Chlordane	0.03		<0.002	<0.20	<0.30	<0.030
Field Parameters							
	pH			7.59	7.63	7.73	7.96

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Director
Oil Conservation Division



BY ELECTRONIC MAIL ONLY

February 14, 2022

Mr. Gary Russell
Marathon Petroleum
112 TownPark Dr, Suite 125
Kennesaw, GA 30144
gfrussell@marathonpetroleum.com

RE: Bloomfield Products Terminal – Notice of an Administratively Complete Renewal Discharge Permit Application

Dear Mr. Russell:

The New Mexico Energy, Minerals and Natural Resource Department's Oil Conservation Division (OCD) has reviewed your amended renewal discharge permit application, dated February 7, 2022, for Western Refining Southwest LLC (Western), Bloomfield Products Terminal. OCD has determined that the amended renewal discharge permit application is administratively complete.

Given OCD's determination, Western must provide public notice within 30 days of receipt of this letter (i.e., March 16, 2022) in accordance with the requirements of 20.6.2.3108(C) NMAC to the public in the locale of Bloomfield Products Terminal by each of the methods listed below:

- 1) Providing notice by certified mail to the owner of the discharge site if Western is not the owner; and
- 2) Publishing a synopsis of the notice in English and in Spanish, in a display ad at least two inches by three inches not in the classified or legal advertisements section, in the Farmington Daily Times.

As per 20.6.2.3108(F) NMAC, the notice must also include the address and phone number within OCD by which interested persons may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notices; the notice must also include a statement that OCD will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. The following OCD contact information must be included in the notice:

Mr. Russell
February 14, 2022
Page 2 of 2

Administrative Permitting Manager
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
(505) 476-3441
OCD.DischargePermits@state.nm.us

Within 15-days of completion of the public notice, Western must submit to the OCD proof of the notice, including affidavit of mailing(s) and the list of property owner(s), proof of publication, and an affidavit of posting, as appropriate.

If you have any questions, please do not hesitate to contact me by phone at (505) 670-5684 or by email at LeighP.Barr@state.nm.us. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this process.

Regards,



Leigh P. Barr
Administrative Permitting Supervisor

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 79879

CONDITIONS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 79879
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
lbarr	None	6/21/2022