

Western Refining Southwest LLC

A subsidiary of Marathon Petroleum Corporation I-40 Exit 39 Jamestown, NM 87347

April 16, 2024

Mr. Ricardo Maestas, Acting Chief New Mexico Environment Department, Hazardous Waste Bureau 2905 Rodeo Park Drive East, Bidg. 1 Santa Fe, NM 87505-6313

RE: Response to Approval with Modifications [REVISED] SWMU-1 Corrective Measures Implementation Work Plan Western Refining Southwest LLC, Gallup Refinery McKinley County, Gallup, New Mexico EPA ID# NMD000333211 HWB-WRG-21-016

Dear Mr. Maestas:

Please find enclosed the response to comments from the New Mexico Environment Department (NMED) Approval with Modifications letter dated April 4, 2024, for the SWMU-1 Corrective Measures Implementation Work Plan.

If you have any questions or comments regarding the information contained herein, please do not hesitate to contact Ms. Kateri Luka at (714) 713-1218.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely, Western Refining Southwest LLC, Marathon Gallup Refinery

Timothy J. Peterkoski Director of Environment and Climate Strategy Marathon Petroleum Company LP

Enclosures

cc: L. Andress, NMED HWB M. Suzuki, NMED J. Moore, MPC L. Tsinnajinnie, NMED K. Luka, MPC H. Jones, Trihydro Corporation

ATTACHMENT A

RESPONSE TO COMMENTS

NMED Comment	Western Response
Comment 1:	Response 1:
The Permittee's response to the Disapproval Comment 1b, bullet 2,	a) The Refinery acknowledges this comment and will prepare the data
states, "[e]xcavation stockpile staging areas [are discussed in]: Text	as requested for expedited review of the confirmation samples.
located in Section 5.2.2 (Auxiliary Site Preparation); Plan Set Sheet 2	
(location) and Sheet 4 Detail 4 (details)." Address the following issues:	b) The Refinery acknowledges this comment.
	i. The Refinery acknowledges this provision and will
a) Section 5.2.2 states, "[a] discussion of the analytical data results is	demonstrate how the provision was incorporated in the completion
provided in Section 5.6." Section 5.6 (Excavation Backfill) states,	report. The Refinery will only use the existing borrow pit location soils
"[f]ollowing excavation and confirmation sampling of each aerobic	for stabilization activities and disposal.
lagoon, NMED will be provided with analytical data and will have the	ii. The Refinery acknowledges this comment and will perform
opportunity to review the results prior to beginning placement of	an investigation to determine the suitability of the alternate borrow
backfill. To facilitate the excavation process, Western is requesting a	source. The Refinery will present the suitability investigation in the
one-week review and approval time for evaluation of confirmation	remedy completion report. It is acknowledged that the backfill material
samples." It is anticipated that the quantity of the confirmation sampling	must not exceed the respective residential soil screening levels.
data will be substantial. It can take a long time to review the raw	
laboratory reports. In order for NMED to meet the Permittee's request,	c) The Refinery acknowledges this comment and will collect one
the Permittee must prepare and submit tables summarizing all analytical	surface sample every 400 square feet at a minimum to demonstrate that
results with figures depicting the corresponding sampling locations at	no additional contamination has been caused by the stockpile area.
the time the data is submitted. The tables summarizing the analytical	
results must present all applicable screening levels and if any	d) The Refinery acknowledges that NMED has this concern and will
exceedances are present, they must be identified with bold font. The	stay 5 feet above the existing groundwater table.
figures depicting the sampling locations must identify depths where the	
samples are collected. The figures must also indicate that the required	
sampling frequency is met at the sampling locations. NMED will be	
able to expedite its review of the data if the appropriate information	
necessary to facilitate its review is provided.	

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b) Section 5.2.2 states, "[a]s refinery impacts have been documented	
below the floor of the borrow area, no borrow soil will be removed from	
the floor of the borrow pit. It is anticipated that borrow material will be	
removed from the unexcavated northern face of the borrow pit above the	
impacted soil," and "[t]he analytical data and a figure illustrating the	
boring locations is provided in Appendix C." Figure 1 (Borrow Pit	
North Berm Sample Locations) included in Appendix C (Borrow Area	
Sampling Laboratory Analyses) depicts the boring locations in the	
northern face of the borrow pit and the corresponding TPH-GRO	
concentrations. The TPH-GRO concentrations did not exceed the	
Industrial/Construction Worker Exposure soil screening level of 500	
mg/kg but exceeded the Residential soil screening level of 100 mg/kg.	
Address the following:	
i. NMED's February 8, 2024 Approval with Modifications Hydrocarbon	
Seep Interim Measures 2023 Third Quarter Status Report states, "[t]he	
thickness of separate phase hydrocarbon (SPH) in sump BPS-7, which is	
located farthest north of the Borrow Pit area, is recorded as 7.01 feet on	
September 23, 2023. Although the SPH plume likely extends farther	
north of sump BPS-7 and it may be expanding farther north of the	
Borrow Pit area, there are no groundwater monitoring wells that define	
the extent of the SPH plume." The distance between the sump and	
boring BPI-15, where TPH-GRO was not detected at the time of	
investigation, is only approximately 80 feet. Since the SPH plume is	
not stationary, it may eventually intersect the proposed location of the	
borrow area in the future. In addition, borrowing operations may cause	
the soil column above the water table to be thinner. NMED is	
concerned because the thinner soil column may likely increase the	

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amount of rainwater that seeps into the aquifer and the SPH plume may	
expand faster by the steeper groundwater gradient. Therefore, the	
Permittee must leave at least five feet of soil column above the depth of	
the water table at the time of excavation. Acknowledge this provision in	
the response letter and demonstrate that this provision is incorporated	
during the borrowing operations in the remedy completion report.	
Furthermore, the Permittee may only use this soil for the purpose of	
waste stabilization and disposal off-site. The soil must not be used as	
backfill material. Acknowledge this provision in the response letter.	
ii. Plan Set Sheet 2 (Project Map) depicts the proposed location of the	
alternative borrow areas northwest of the facility infrastructure. The	
soil from the alternative borrow areas may be suitable for acquiring	
backfill material; however, according to the 2022 Groundwater	
Monitoring Report, SPH was detected in well BW-2A, which is located	
downgradient of the alternative borrow areas. Investigate/evaluate the	
usability of the soil in the alternative borrow areas prior to commencing	
the field activity. The result of the investigation/evaluation of the	
usability of the soil must be presented in the remedy completion report	
if it is found usable. Note that the soil concentrations in the samples	
collected from the alternative borrow areas must not exceed the	
respective Residential soil screening levels if the soil is used as backfill	
material. If the soil is found to be contaminated in the proposed	
alternative borrow areas, an upgradient location, southeast or south of	
the Refinery, may be ideal alternative borrow areas to acquire clean	
backfill material. Regardless, if the Permittee is unable to acquire any	
clean fill material that meets the Residential soil screening levels	

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anywhere on site, clean fill must be imported from off-site.	
Acknowledge this provision in the response letter.	
c) Plan Set Sheet 2 (Project Map) depicts the locations of the two primary stockpile areas. Demonstrate that no contamination remains after the stockpiles are removed from the stockpile areas in the remedy completion report. NMED recommends that one surface sample for every 400 square feet be collected, at a minimum, to make the demonstration. Acknowledge this provision in the response letter.	
d) Plan Set Sheet 4 (Details) depicts the stockpile area section. The surface of the stockpile area will be covered with a 20-mil HDPE liner. The Permittee must demonstrate that a concerted effort was made to prevent the liner from being damaged by trucks or excavators while moving the soil in/out of the area, as practicable. Such a provision must be documented in the remedy completion report.	
The Permittee must acknowledge the provisions from Comment 1a through 1d in the response letter.	
Comment 2:	Response 2:
The Permittee's response to the Disapproval Comment 4b states, "[t]he berms will be treated the same as the rest of the excavation walls and will have confirmation sampling completed at the extents of the excavation." Ensure that the berms surrounding the lagoons will not be used as backfill material. Acknowledge this provision in the response letter.	The Refinery acknowledges this provision and will not use the berms at SWMU-1 as backfill.

NMED Comment	Western Response
Comment 3:	Response 3:
The Permittee's response to the Disapproval Comment 4c states,	The Refinery acknowledges this provision and will not use the existing
"[b]ackfill material that is observed to have impacts and an FID reading	borrow pit material for backfilling.
above 20 parts per million will be returned to the excavation location	
and excavation operations will be adjusted to an area that does not	
contain potentially impacted material." The response does not fully	
address the Disapproval Comment 4c. Comment 4c states, "[t]he	
Permittee must ensure that soil taken from the on-site borrow area meets	
Residential Screening Levels (RSLs) before it is transferred to SWMU-	
1 to be used as backfill material." According to Figure 1 of Appendix C,	
the TPH-GRO concentrations in multiple samples (e.g., samples	
collected at borings BPI-1, 2, 3, 5, 10, and 11) exceeded the Residential	
soil screening level of 100 mg/kg. The Permittee must not use the soil	
in the vicinity of the borrow area as backfill material because of the	
exceedances of TPH-GRO and must acknowledge this provision in the	
response letter and document it in the remedy completion report (see	
also Comment 1b.i).	-
Comment 4:	Response 4:
The Permittee's response to the Disapproval Comment 4d states,	The Refinery acknowledges this provision and will investigate and
"[s]amples will be taken and analyzed to ensure residential standards are	report suitability of the alternate borrow source.
met prior to use of any of the alternative borrow source locations, if	
additional backfill soil is needed. Field screening methods as detailed in	
Section 5.6.2 will also be used to verify suitability during excavation of	
the backfill material." The Permittee must demonstrate that the soil from	
the alternative borrow source locations is suitable as backfill material	
and present the information in the remedy completion report; otherwise,	
the soil from the alternative borrow locations must not be used as	

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backfill material (see also Comment 1b.ii). Acknowledge this provision	
in the response letter.	
Comment 5:	Response 5:
The Permittee's response to the Disapproval Comment 4d states, "[t]he geotechnical data for these borrow sources is included in Appendix F." According to the soil boring logs included in Appendix F (Alternative Borrow Source), both coarse (e.g., silty sand) and fine (clay) materials are present in the alternative borrow sources. Demonstrate that that the backfill material can effectively be compacted to prevent differential settlement of the soil so that the proposed storm water controls can function as intended in the remedy completion report.	The Refinery acknowledges this comment.
Comment 6:	Response 6:
Section 4.2.1 (Stabilizing Using Onsite Borrow Soil) of the Waste Stabilization and Excavation Plan & Transportation Plan included in Appendix G (Contractor Submittals), page 8 of 12, states, "[t]he [borrowed] soil will be mixed with the waste until it becomes soil-like and a compactible material. The initial stabilization will be concentrated in one area so that an area can be cleaned out to allow stockpiling of the stabilized material prior to loadout." The excavation floor may be entirely wet and sludge-like. Explain how the borrowed soil and the waste will be physically mixed in the response letter and remedy completion report. In addition, the initial stabilization described in Section 4.2.1 must be designated and identified in a figure in the remedy completion report, as applicable.	The Refinery acknowledges this comment. The plan is to mix in place with a long reach excavator cleaning up one area and moving out from there. Borrow soils will be added and mixed with the excavator bucket until the material becomes soil like and then it will be loaded into haul trucks using a separate excavator. A pilot test will be conducted within SWMU-1 (in place) to determine an approximate amount of borrow material needed to meet acceptance criteria for disposal at the regional landfill. As outlined in the Corrective Measures Implementation Work Plan, water management will be conducted throughout the process to manage any precipitation or groundwater infiltration into the excavation area.

NMED Comment	Western Response
Comment 7:	Response 7:
Section 4.3 (Waste Excavation, Loading and Stockpiling) of the Waste	A schematic of the bulkhead is included in Attachment B. The
Stabilization and Excavation Plan & Transportation Plan included in	bulkhead is intended to keep the haul trucks off the staging area liner to
Appendix G, page 8 of 12, states, "[a] bulkhead, approximately six feet	prevent damage to the liner.
high will be constructed using concrete blocks. A ramp will be	
constructed that leads to the bulkhead approximately four feet high.	
The ramp will be constructed so that the truck is level from front to back	
during the dumping of the waste. The truck will back up to the	
bulkhead and dump the waste. This will prevent the tires of the truck	
from contacting waste material. A concrete pad will be constructed in	
front of the bulkhead to allow the loader to pick up the waste for	
transfer to a stockpile. This will eliminate damage to the sacrificial	
cover and easy removal of all the waste." It is difficult to understand the	
loading process from the text. Provide the schematics for the bulkhead	
with the response letter and the remedy completion report. The	
schematics need not to be scaled. This comment is intended to facilitate	
understanding of the process only, rather than to evaluate engineering	
design	

ATTACHMENT B

BULKHEAD OFFLOADING RAMP DETAIL



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

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

CONDITIONS

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Action 334192

CONDITIONS

Operator:	OGRID:
Western Refining Southwest LLC	267595
539 South Main Street	Action Number:
Findlay, OH 45840	334192
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)
CONDITIONS	

Created By		Condition Date
joel.stone	Approved for OCD record retention purposes.	7/25/2024

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