From: Caitlin Fields

Tsinnajinnie, Leona, NMENV; Chavez, Carl J, EMNRD To: McCartney, Gregory J.; Luka, Kateri A; Heidi Jones Cc: Subject: [EXT] 2021 Bloomfield Terminal Financial Assurance

Date: Friday, January 29, 2021 2:25:30 PM

Attachments: image001.png

202101 BloomfieldFA LTR-Signed.pdf

Hello,

Please find the 2021 Financial Assurance for the Marathon Petroleum Company LP, Bloomfield Terminal attached. Please let Greg McCartney know if you have any questions.

Thank you, Caitlin

Caitlin Fields Associate Engineer

1252 Commerce Drive Laramie, Wyoming 82070 (307) 745-7474 (phone) (307) 745-7729 (fax) www.trihydro.com



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Western Refining Southwest LLC

A subsidiary of Marathon Petroleum Corporation 212 N. Clark St. El Paso, TX 79905

February 1, 2021

Mr. Kevin Pierard, Chief New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, NM 87505

RE: 2021 Financial Assurance Cost Estimate
Marathon Petroleum Company LP, Bloomfield Terminal
(dba Western Refining Southwest LLC)
EPA ID # NMD089416416

Dear Mr. Pierard,

Marathon Petroleum Company LP (dba Western Refining Southwest LLC) Bloomfield Terminal is submitting the referenced Financial Assurance (FA) Cost Estimate. The FA estimate includes costs to address those activities specified in the Consent Order No. HWB 07-34 (CO) dated July 27, 2007.

If there are any questions, please do not hesitate to contact me at 419-421-2338 regarding the Bloomfield Terminal.

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,

Gregory McCartney

Bloomfield Project Manager

Enclosure

cc: L. Tsinnajinnie, NMED

C. Chavez, NMOCD

A. Kitchen, Marathon Petroleum Company K. Luka, Marathon Petroleum Company

H. Jones, Trihydro Corporation



Scott T. Crouch, PG Senior Geologist

January 5, 2021

Mr. Gregory J. McCartney, P. E. Senior Environmental Professional Marathon Petroleum Company, LP 539 S. Main Street, Room M-7081 Findlay, OH 45840

Re: Marathon Petroleum Company - Bloomfield Terminal

Order No. HWB 07-34 (CO)

Financial Assurance Cost Estimate Update for 2021

Dear Mr. McCartney:

This financial assurance cost estimate update for the Bloomfield Terminal includes costs to address:

- 1. those activities specified in Section III.P.1. of Order No. HWB 07-34 (CO) that was issued by the New Mexico Environment Depart on September 27, 2007; and
- 2. implementation of the Final Closure Plan for Interim Status Unit No. 1 North and South Aeration Lagoons.

The annual inflation factor used is that value available at the time the revised cost estimate is required for the Order (i.e., January 31, 2020). The inflation factor is calculated as follows:

Implicit price deflator for 2020 / implicit price deflator for 2019 (updated 12/22/2020) = 113.840/112.531 = 1.01 [source - http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)]

The cost estimate for the Order was prepared in accordance with 40 CFR 264.101 and substantially in compliance with the requirements of 40 CFR 264.142 and 264.144. The costs reflect the requirements of the Facility-Wide Groundwater Monitoring Plan (dated June 2014) incorporating revisions approved by the New Mexico Environment Department on June 15, 2015. The new estimate for 2021 including the adjustment for inflation is \$791,363. A detailed breakout of the estimate by activity is provided in enclosed Tables 1, 1A, 1B, 1C, 1D, and 1E

The cost estimate for implementation of the Final Closure Plan for Interim Status Unit No. 1 – North and South Aeration Lagoons was prepared in accordance with 40 CFR 265.142. Annual adjustments for inflation are made from the cost estimate provided in the Final Closure Plan dated May 2010 (revised January 2011) and approved

8501 Nor phone 512.693.4193 | mobile

May 20, 2011. The last annual estimate prepared in January 2020 was \$374,277. The new estimate for 2021 is \$378,057 (\$374,277 increased by an inflation factor of 1.01). A detailed breakout of the original estimate by activity is provided in enclosed Tables 2 and 2A.

The total estimated cost for 2021 is \$1,169,420. If there are any questions, please contact me at (512) 693-4193.

Sincerely,

DiSorbo Consulting, LLC

Mr. Gregory J. McCartney

January 5, 2021

Page 2

Scott T. Crouch, P.G. Senior Consultant

Enclosures

Table 1
Western Refining Southwest, Inc.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate

Waste	NMED	Capital	Operation &	NMED		
Management Area	Order Provision	Costs1	Maintenance Costs ²	Review Fees	Total Costs	Explanation
Solid Waste Management Units (SWMU's) Investigation, Remediation, & associated reports	U's) Investigati	on, Remedi	ation, & associat	ed reports		
Group 1						
Interim Status Unit No. 1: North & South Aeration Lagoons - Closure Plan						Project completed
Implementation	IV.B.5	\$0	\$0		\$0	
Remedy Completion Report	VI.D.6			\$0	\$0	
				subtotal	\$0	
Group 2						
SWMU No. 2: Drum Storage Area -	S a V	ç	O#		Ş	
active Landfill	V.D.S	Q Q	Q		Q Q	
	IV.B.6	\$0\$	\$0		\$0	
tion Area	IV.B.6	\$0	\$0\$		0\$	
	IV.B.6	\$	\$0		0\$	
Corrective Measures Implementation Plan	VI.D.2			09	0\$	
ess Report	VI.D.5			\$0	\$0	
tion Report	VI.D.6			\$0	0\$	
				subtotal	\$0	
Group 3						
SWMU No. 4: Transportation Terminal	0	Ç.	Ç		Ç	
dwns	IV.B.6	20	0\$		0\$	
SWMU No. 5: Heat Exchanger Bundle Cleaning Area & AOC No. 25: Auxiliary Marehouse and Quiday Storage Area	8 8 2	Ş	Ç		Ş	
1	N B6	0\$	Ş Ç		Q	
spe	IV.B.6	\$0	\$0		\$0	
	IV.B.6	\$0	0\$		\$0	
	IV.B.6	\$0	0\$		\$0	
ctive Measures Implementation				,		
	VI.D.2			\$0	\$0	
	VI.D.5			\$0	\$0	
Remedy Completion Report	VI.D.6			\$0	\$0	
				subtotal	\$0	

Table 1
Western Refining Southwest, Inc.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate

Group 4	Provision	Costs	Maintenance Costs ²	Review Fees	Total Costs	Explanation
SWMU No. 7 Raw Water Ponds IV.	IV.B.6	\$0	\$0		\$0	
SWMU No. 10: Fire Training Area	IV.B.6	\$0	\$0		\$0	
	IV.B.6	\$0	\$0		\$0	
ctive Measures Implementation						
	VI.D.2			\$0	\$0	
	VI.D.5			\$0	\$0	
Remedy Completion Report VI.	.D.6			\$0	\$0	
				subtotal	0\$	
Group 5						
SWMU No. 15: Tank Farm Area IV.	IV.B.6	0\$	\$0		\$0	
ctive Measures Implementation						
	VI.D.2			\$0	\$0	
	.D.5			\$0	\$0	
Remedy Completion Report VI.	VI.D.6			\$0	\$0	
				subtotal	0\$	
Group 6						
AOC No 19: Seen North of MW-45	N B G	U\$	υ\$		C\$	
	IV.B.6	80	\$0		\$0	
	IV.B.6	\$0	\$0		\$0	
ctive Measures Implementation						
	VI.D.2			\$0	\$0	
	VI.D.5			\$0	\$0	
Remedy Completion Report VI.	.D.6			\$0	\$0	
				subtotal	\$0	
Group 7						
П	IV.B.6	\$0	\$0		\$0	
ctive Measures Implementation				45.04264.0	110-700	
	VI.D.2			\$0	\$0	
	VI.D.5			\$0	\$0	
Remedy Completion Report VI.	.D.6			\$0	\$0	
				subtotal	\$0	

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Table 1
Western Refining Southwest, Inc.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate

Waste Management Area	NMED Order Provision	Capital Costs ¹	Operation & Maintenance Costs ²	NMED Review Fees	Total Costs	Explanation
Group 8						
SWMU No. 3: Underground Piping Currently in Use	IV.B.6	\$0	\$0		\$0	
SWMU No. 6: Abandoned Underground Piping	IV.B.6	0\$	0\$		0\$	
tive Measures Implementation				6	Ç	
ress Report	VI.D.5			9 9	04	
tion Report	VI.D.6			\$	\$0	
				subtotal	\$0	
Group 9						
SWMU No. 13; Process Area	IV.B.6	\$0	\$0		\$0	
d 5	IV.B.6	\$0	\$0		\$0	
SWMU No. 12: API Separator	IV.B.6	\$0	\$0		\$0	
Corrective Measures Implementation	VID2				C\$	•
ess Report	VI.D.5				\$0	
tion Report	VI.D.6				\$0	
				subtotal	\$0	
Other Areas						
	III.Q.1	0\$	\$0		\$0	Section III.G.2 of the NMED Order specifies that
Corrective Measures Implementation Plan	VI.D.2				0\$	either NMED or Western may identify additional areas for corrective action. At this time, no
Progress Report	VI.D.5				\$0	additional areas have been identified.
Remedy Completion Report	VI.D.6				0\$	
				subtotal	\$0	

Bloomfield, New Mexico Refinery NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate Western Refining Southwest, Inc. 1/4/2021 Table 1

Interim Measures & Facility Wide Ground Water Monitoring River Terrace Area Analytical V.B.1 River Terrace Area Analytical V.B.1	er Sion Costs ¹			-	
Interim Measures & Facility Wide Ground Water River Terrace Area Analytical V.B.1 River Terrace Area Analytical V.B.1		Maintenance Costs ²	Keview	l otal Costs	Explanation
	r Monitoring				
		\$12,335		\$12,335	1 yr. Monitoring @\$12,335/yr - see detail Table 1A
		\$31,680		\$31,680	2 yr. Confirmation Monitoring @\$15,840/yr - see detail Table 1B
River Terrace Annual Report V.B.1		\$3,500	\$2,000	\$5,500	1 yr. reporting @\$3,500/annual report & NMED fees of \$2,000/annual rpt
River Terrace Operation & Maintenance III.P.1 & V	& V.B.	\$8,000		\$8,000	GAC filters & maintenance \$8,000/yr x 1 yr
North Barrier Wall collection operations III.P.1		0\$		0\$	Bi-weekly fluid level measurements terminated in 2012 per NMED approval
Vater Monitoring r Wall & Tank		0.00		No.	Table 1C provides detailed cost on an annual basis (\$62,315) which is multiplied by 3 years
Farm) analytical costs IV.A.		\$186,945		\$186,945	pursuant to the Order.
Facility Wide Ground Water Monitoring (including North Barrier Wall & Tank Farm) analytical costs		\$475,944		\$475,944	Table 1D provides detailed closure (quarterly sampling) cost on an annual basis (\$237,972) that is multiplied by 2 years.
Facility-Wide Annual Monitoring Report (including North Barrier Wall)		\$21,000	\$8,000	\$29,000	3 yrs. Monitoring @ \$7,000/annual report & NMED fees of \$2,000/annual rpt
1# East Outfall V.C.		0\$		0\$	Sampling is no longer conducted at this location as the discharge goes directly to the API Separator.
San Juan River samples		\$26,442		\$26,442	See Table 1E for detailed estimate; assume 3 years @\$8,814/yr
RCRA Background Monitoring Wells		\$0		\$0	Quarterly sampling for the background monitoring wells terminated in 2014.
			subtotal	\$775,846	
TOTAL ESTIMATED COSTS TO IMPLEMENT NM Inflation Factor 3	MED ORDER (with	NMED ORDER (without inflation costs)	ts)	\$775,846 1.01	
CURRENT TOTAL ESTIMATED COSTS TO IMPLEMENT NMED ORDER.	EMENT NMED O	RDER.		\$791,363	

¹⁻ capital costs associated with construction, installation, pilot testing, evaluation, permitting, and reporting of the effectiveness of the alternative 2 -continuing costs associated with operating, maintaining, monitoring, testing, and reporting on the use and effectiveness of the technology 3 - Inflation factor for 2021 = Implicit price deflator for 2020 / implicit price deflator for 2019 (updated 12/22/2020) = 113.840/112.531 = 1.01

TABLE 1A
RIVER TERRACE SAMPLING COST ESTIMATE

Analysis	Frequency	# of Sample Locations	Total # of Samples ⁽¹⁾	Cost/Sample	Cost pe Year
	RIV	ER TERRACE - A	QUEOUS		
8021B	Low Flow Annually	6	10	\$45	\$450
8021B	Bi-Annually	1	1	\$45	\$45
8015B (GRO, DRO)	Low Flow Annually	6	9	\$90	\$810
8015B (GRO, DRO)	Bi-Annually	1	1	\$90	\$90
6010B (metals)	Low Flow Annually	6	9	\$225	\$2,025
6010B (metals)	Bi-Annually	1	1	\$225	\$225
Level 4 Data Packet	each event			10%	\$365
				subtotal	\$4,010
	F	RIVER TERRACE	- Vapor		
8021B	Low Flow	9	9	\$45	\$405
8021B	High Flow	14	14	\$45	\$630
8015B (GRO)	Low Flow	9	9	\$90	\$810
8015B (GRO)	High Flow	14	14	\$90	\$1,260
Tedlar Bags	Annually	23	23	\$10	\$230
Level 4 Data Packet	High Flow / Low Flow			10%	\$311
				subtotal	\$3,646
	GA	C Breakthrough	Sampling		
8260	Quarterly	3	12	\$90	\$1,080
8015B (GRO, DRO)	Quarterly	3	12	\$90	\$1,080
Level 4 Data Packet	each event			10%	\$216
				subtotal	\$6,332
			Annual	analytical costs	\$10,031
ver Terrace labo	r for Low Flow ev	ent 20 hours X \$			\$1,440
ver Terrace labo	r GAC sampling e	events 12 hours	X \$72/hr I River Terrace		\$864

River terrace sampling conducted pursuant to June 2014 Facility-Wide Groundwater Monitoring Plan (Section 5.4), NMED's June 15, 2015 Approval with Mods letter, and Bioventing Monitoring Plan (Revised) River Terrace Voluntary Corrective Measures dated October 28, 2005

1 - Includes additional QA/QC samples

BLOOMFIELD TERMINAL - TABLE 1B RIVER TERRACE CONFIRMATION SAMPLING COST ESTIMATE

Analysis	Frequency	# of Sample Locations	Total # of Samples (1)	Cost/Sample	Cost per Year
	RIN	/ER TERRACE - A			
8021B	Quarterly	7	40	\$45	\$1,800
8015B (GRO, DRO)	Quarterly	7	40	\$90	\$3,600
6010B (metals)	Quarterly	7	40	\$225	\$9,000
Level 4 Data Packet	each event			10%	\$1,440
				subtotal	\$15,840
			Annual	analytical costs	\$15,840

River terrace sampling conducted pursuant to June 2014 Facility-Wide Groundwater Monitoring Plan (Section 5.4) and Bioventing Monitoring Plan (Revised) River Terrace Voluntary Corrective Measures dated October 28, 2005

1 - Includes additional QA/QC samples

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TABLE 1C **Facility-Wide Groundwater Monitoring Cost Estimate**

Analysis	Frequency	# of Sample Locations	# of Samples	Cost/Sample	Cost pe Year
	Annual Terminal	Complex (Non	-RCRA Wells)		
8260B	Annual	31	46	\$90	\$4,140
8015B (GRO, DRO)	Annual	31	42	\$90	\$3,780
8270C	Annual (1)	3	5	\$220	\$1,100
CO2/Alkalinity (310.1)	Annual	31	42	\$25	\$1,050
Cation Anion Balance + General Chem	Annual	31	42	\$170	\$7,140
6010 & 7470 (metals)	Annual	31	42	\$225	\$9,450
Filters			42	\$15	\$630
Level 4 Data Packet	Annual			10%	\$2,666
				subtotal	\$29,956
Annu	al Terminal Com	olex (RCRA Inv	estigation Wel	ls) ⁽⁵⁾	
8260B	Annual	9	9	\$90	\$810
8015B (GRO, DRO)	Annual	9	9	\$90	\$810
8270C (4)	Annual	8	8	\$220	\$1,760
CO2/Alkalinity (310.1)	Annual	9	9	\$25	\$225
Cation Anion Balance + General Chem	Annual	9	9	\$170	\$1,530
6010 & 7470 (metals)	Annual	9	9	\$225	\$2,025
Filters	Annuai	9	9	\$225 \$15	
Level 4 Data Packet	Annual		9	10%	\$135 \$716
Level 4 Data Facket	Annual			subtotal	\$8,011
Sar	mi-Annual - Termi	nal Complex (Non-PCPA Wal		φ0,011
	The second secon	AND THE RESERVE TO THE PARTY OF	ALTONOMIC TO SERVICE AND ADDRESS OF THE PARTY OF THE PART	Mark the second	¢4 440
8260B (target list)	Semi-Annual (3)	10	16	\$90	\$1,440
8015B (GRO, DRO)	Semi-Annual (3)	5	10	\$90	\$900
Level 4 Data Packet	Semi-Annual (3)			10%	\$234
				subtotal	\$2,574
Walling Walling	Semi-Annual - I	North Barrier W	/all OW/CW		
8260B (target list)	Semi-Annual	16	39	\$90	\$3,510
8015B (GRO, DRO)	Semi-Annual	16	36	\$90	\$3,240
Level 4 Data Packet	Semi-Annual			10%	\$675
minute recommendation and the second				subtotal	\$7,425
Semi-Ar	nual River Bluff (Outfall 2 & 3. 8	Seeps 1, 6, 7,		
8260B (target list)	Semi-Annual	7	18	\$90	\$1,620
CO2/Alkalinity (310.1)	Semi-Annual	7	16	\$25	\$400
Cation Anion Balance +					
General Chem	Semi-Annual	7	16	\$170	\$2,720
6010 & 7470 (metals) Filters	Semi-Annual	2	6	\$225 \$15	\$1,350 \$90
Level 4 Data Packet	Semi-Annual		0	10%	\$609
EUVEL 4 Duta 1 denet	John Ainda			subtotal	\$6,789
Sampling Labor	Semi-Annual & Annual events		15 Days of 7 hour days	\$72/hour	\$7,560

Sampling conducted pursuant to June 2014 Facility-Wide Groundwater Monitoring Plan and NMED's June 15, 2015 Approval with Mods letter

^{1 -} The SVOC analyses are performed every two years and the "# of samples" is adjusted accordingly

^{2 - #} of Samples includes additional QA/QC samples
3 - This reference to semi-annual only includes a single event, as these locations are also included in the annual category

BLOOMFIELD TERMINAL - TABLE 1D Facility-Wide Confirmation Groundwater Monitoring Cost Estimate

Analysis	Frequency	Locations	# of Samples	Cost/Sample	Cost pe Year
	Annual Refinery	Complex (Non-	RCRA Wells)		
8260B	Quarterly	31	164	\$90	\$14,760
8015B (GRO, DRO)	Quarterly	31	152	\$90	\$13,680
8270C	Quarterly	31	152	\$220	\$33,440
CO2/Alkalinity (310.1)	Quarterly	31	152	\$25	\$3,800
Cation Anion Balance + General Chem	Quarterly	31	152	\$170	\$25,840
6010 & 7470 (metals)	Quarterly	31	152	\$225	\$34,200
Filters			152	\$15	\$2,280
Level 4 Data Packet	Quarterly			10%	\$12,572
				subtotal	\$140,57
Ann	ual Refinery Com	plex (RCRA Inv	estigation We	lls)	
8260B	Quarterly	19	76	\$90	\$6,840
8015B (GRO, DRO)	Quarterly	19	76	\$90	\$6,840
8270C	Quarterly	19	76	\$220	\$16,720
CO2/Alkalinity (310.1)	Quarterly	19	76	\$25	\$1,900
Cation Anion Balance + General Chem	Quarterly	19	76	\$170	\$12,920
6010 & 7470 (metals)	Quarterly	19	76	\$225	\$17,100
Filters			76	\$15	\$1,140
Level 4 Data Packet	Quarterly			10%	\$6,232
				subtotal	\$69,692
	Semi-Annual -	North Barrier W	/all OW/CW		
8260B	Quarterly	16	72	\$90	\$6,480
8015B (GRO, DRO)	Quarterly	16	70	\$90	\$6,300
Level 4 Data Packet	Quarterly		-	10%	\$1,278
ECVCI 4 Data 1 donot	Quarterly			subtotal	\$14,058
Sami-Ar	nual River Bluff	(Outfall 2 & 3 8	Seens 1 6 7	ADMINISTRAÇÃO DE CONTRACTOR DE	ψ14,000
8260B	Quarterly	7	38	\$90	\$3,420
		7			
CO2/Alkalinity (310.1) Cation Anion Balance +	Quarterly Quarterly	7	34 34	\$25 \$170	\$850 \$5,780
General Chem 6010 & 7470 (metals)	Quarterly	2	10	\$225	\$2,250
Filters	Quarterly		8	\$15	\$120
Level 4 Data Packet	Quarterly		Ĭ	10%	\$1,230
				subtotal	\$13,650
	Total Annual - F	acility-Wide Gro	undwater Samr	ling & Analysis	\$237,9

Sampling conducted pursuant to June 2014 Facility-Wide Groundwater Monitoring Plan 1 - # of Samples includes additional QA/QC samples

TABLE 1E San Juan River Sampling Cost Estimate

Analysis	Frequency	# of Sample Locations	# of Samples 1	Cost/Sample	Cost per year
8260B	Semi-Annual	4	14	\$90	\$1,260
8015B (GRO, DRO)	Semi-Annual	4	12	\$90	\$1,080
CO2/Alkalinity (310.1)	Semi-Annual	4	12	\$25	\$300
Cation Anion Balance + General Chem	Semi-Annual	4	12	\$170	\$2,040
6010 & 7470 (metals)	Semi-Annual	4	12	\$225	\$2,700
Filters			8	\$15	\$120
Level 4 Data Packet	Semi-Annual			10%	\$738
			Annual	analytical costs	\$8,238
Sampling Labor	Semi-Annual		4 hours each event	\$72/hour	\$576
70 W 10 W 10 W		Total Annual	San Juan River S	Sampling Costs	\$8,814

Sampling pursuant to June 2014 Facility-Wide Groundwater Monitoring Plan 1 - # of Samples includes additional QA/QC samples

TABLE 2
Final Closure Cost Estimate
Western Refining - Bloomfield Refinery
North and South Aeration Lagoons

Item	Description	Quantity	Units	Unit Cost	Cost
	Professional Services	5			
1	Analyses for waste characterization & investigation/soil confirmation sampling (Table 2)	1	LS	\$140,000	\$140,000
2	Final closure report	1	LS	\$20,000	\$20,000
3	Project administration (engineering, bidding, construction administration, etc.)	1	LS	\$18,700	\$18,700
				subtotal	\$178,700
	Construction				
5	Mobilization	1	LS	\$6,200	\$6,200
6	Administrative costs (office facilities & staff, H&S plan, SWPPP, insurance, eqpmt decon, QA/QC, etc.)	1	LS	\$12,500	\$12,500
7	Dewater lagoons (1 ft water over 25,092 sq. ft.) Dispose water at authorized on-site discharge	188,000	Gal	\$0.011	\$2,100
8	Excavate and load sludge from aeration lagoons for disposal at local NMED permitted landfill. (1)	310	CY	\$4	\$1,200
9	Transfer sludge from aeration lagoons to local NMED permitted landfill. (2)	403	CY	\$12.5	\$5,000
10	Dispose of sludge at local landfill as Special Waste	403	CY	\$16.5	\$6,600
11	Remove and dispose of RCRA liners at local landfill (3)	1	LS	\$5,340	\$5,300
12	Remove and dispose of non-RCRA composite geotextile/geonet layer and 100 mil liner at local landfill; stockpile cemented amended sand (4) (5)	1	LS	\$7,780	\$7,800
13	Transport and dispose of cemented amended sand at local NMED permitted landfill as special waste (5)	605	CY	\$29	\$17,500
14	Excavate upper two feet of soils across all lagoons (6)	1,859	CY	\$5	\$9,300
15	Transport and dispose of excavated soils at local landfill as Special Waste	2,416	CY	\$29	\$70,100
16	Demobilization	1	LS	\$2,500	\$2,500
		<u> </u>		subtotal	\$146,100
	TOTAL				\$324,800
	2012 Inflation Factor (7)	1.01			\$3,248
	2012 ADJUSTED ESTIMATED COST TO IMPLEMENT CLOSURE P	LAN			\$328,048
	2013 Inflation Factor ⁽⁸⁾	1.021			\$6,889
	2013 ADJUSTED ESTIMATED COST TO IMPLEMENT CLOSURE P	LAN			\$334,937
	2014 Inflation Factor ⁽⁹⁾	1.018			\$6,029
	2014 ADJUSTED ESTIMATED COST TO IMPLEMENT CLOSURE P	LAN			\$340,966
	2015 Inflation Factor ⁽¹⁰⁾	1.014			\$4,774
	2015 ADJUSTED ESTIMATED COST TO IMPLEMENT CLOSURE P	LAN			\$345,740
	2016 Inflation Factor ⁽¹¹⁾	1.01			\$3,457
	2016 ADJUSTED ESTIMATED COST TO IMPLEMENT CLOSURE P	LAN.			\$349,197

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TABLE 2 Final Closure Cost Estimate Western Refining - Bloomfield Refinery North and South Aeration Lagoons

	3	
2017 Inflation Factor (12)	1.01	\$3,492
2017 ADJUSTED ESTIMATED COST TO IMPLI	EMENT CLOSURE PLAN	\$352,689
2018 Inflation Factor (13)	1.02	\$7,054
2018 ADJUSTED ESTIMATED COST TO IMPLI	EMENT CLOSURE PLAN	\$359,743
2019 Inflation Factor (14)	1.02	\$7,195
2019 ADJUSTED ESTIMATED COST TO IMPLI	EMENT CLOSURE PLAN	\$366,938

Notes

- 1 Assumed dried sludge in-place volume = 25,092 sq. ft. x 0.333ft = 310 cy (special waste). Estimated truck yards = 310 cy x 1.3 (fluff) = 403 cy. Estimated excavation cost = \$4/cy
- Estimated transportation cost to NMED permitted landfill in Aztec, NM = \$12.50/cy (\$125/hr @ 2hrs per trip & 20 yd. truck)
- 3 Assume three 20-yd trucks @ \$16.50/cy; \$750 transportation & 72 hours labor @ \$50/hr = \$5,340
- 4 Assume four 20-yd trucks @ \$16.50/cy, \$1,000 transportation, 72 hours labor @ \$50/hr, & stockpile cemented amended sand (\$4/cy x 465 cy) = \$7,780
- 5 Estimated in-place volume of cemented amended sand = 25,092 sq. ft. x .5 ft. x 1.3 = 465 cy. Estimated truck yards = 465 cy x 1.3 (fluff) = 605 cy
- 6 Estimated in-place volume of excavated soils beneath lagoons = 25,092 sq.ft. x 2 ft. = 1,859 cy. Estimated truck yards = 2,203 cy x 1.3 (fluff) = 2,416 cy
- 7 Implicit price deflator for 2010/implicit price deflator for 2009 (updated 12/22/2011) = 110.992/109.729 = 1.01 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- 8 Implicit price deflator for 2011/implicit price deflator for 2010 (updated 12/20/2012) = 113.355/110.992 = 1.021 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- 9 Implicit price deflator for 2012/implicit price deflator for 2011 (updated 12/20/2013) = 105.667/103.783 = 1.018 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- Implicit price deflator for 2013/implicit price deflator for 2012 (updated 12/23/2014) = 107.301/105.824 = 1.014 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- Implicit price deflator for 2014/implicit price deflator for 2013 (updated 12/22/2015) = 109.067/107.589 = 1.01 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- 12 Implicit price deflator for 2016/implicit price deflator for 2015 (updated 12/22/2016) = 111.648/110.253 = 1.01 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- 13 Implicit price deflator for 2017/implicit price deflator for 2016 (updated 12/21/2017) = 113.614/111.628 = 1.02 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP)
- 14 Implicit price deflator for 2018/implicit price deflator for 2017 (updated 7/26/2019) = 111.256/108.713 = 1.02 http://www.bea.gov (Table 1.1.9 Implicit Price Deflators for GDP) LS - Lump Sum

CY - cubic yard

Gal - gallon

TABLE 2A Investigation & Confirmation Sampling Cost Estimate Western Refining - Bloomfield Refinery North and South Aeration Lagoons

Analysis	# of Samples	Cost/Sample	Costs
Waste	Characterization	Samples ¹	
VOCs 8260B	155	\$90	\$13,950
TCLP SVOCs 8270C	155	\$220	\$34,100
Haz. Characteristics	155	\$140	\$21,700
TCLP Skinner List Metals	155	\$185	\$525
Sampling Labor	40 hours	\$75/hour	\$3,000
		Subtotal	\$73,275
Investig	ation/Confirmatio	on Samples ²	
VOCs 8260B	87	\$90	\$7,830
SVOCs 8270C	87	\$220	\$19,140
TPH 8015B (GRO, DRO, MRO)	87	\$90	\$7,830
Skinner List Metals	87	\$185	\$16,095
		1	
Sampling Labor	40 hours	\$75/hour	\$3,000
Sampling Labor Subcontract drilling	40 hours	\$75/hour	\$3,000 \$12,000
	40 hours	\$75/hour Subtotal	

- 1 sludge samples (25,092 sq. ft. x .33 ft. = 310 yds / 20 yds/sample) = 16 samples; cement amended sand samples (25, 092 sq. ft. x .5 ft = 465 yds / 20 yds/sample) = 24 samples; excavated soil samples (25,092 sq. ft. x 2 ft. x 1.2 (fluff factor) / 27 (cu. ft/yd.) = 2,230 yds / 20 yds/sample) = 112 samples; potential leachate samples (RCRA liner, non-RCRA liner & French drain) = 3 samples; estimated total of 155 characterization samples
- 2 assumes two samples (0-6" & 18-24") at each of 15 soil borings & 15 sidewall samples, one additional sample (lower interval) at each of the 15 soil borings, seven duplicate samples, and five equipment

TPH - total petroleum hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

MRO - Motor Oil Range Organics

VOCs - volatile organic compounds

SVOCs - semi-volatile organic compounds

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COMMENTS

Action 18540

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
WESTERN REFINING SOUTHWEST, IN	6700 Jefferson NE, Suite A-1	Albuquerque,	705791	18540	DISCHARGE
NM87109					PERMIT

Created By	Comment	Comment Date
cchavez	NMED Financial Assurance 1-21-21 Manual Submission by OCD to Admin. Record	02/22/2021

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CONDITIONS

Action 18540

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
WESTERN REFINING SOUTHWEST, IN	6700 Jefferson NE, Suite A-1	Albuquerque,	705791	18540	DISCHARGE
NM87109					PERMIT

OCD Reviewer	Condition
cchavez	None