

Environmental Site Summary & Work Plan



Company: BOPCO, LP	Address:	522 W. Mermod, Suite 704, Carlsba	nd, NM 88220 Teleph	ione #: <u>(432)556-8730</u>
Site Name: North Indian Flats 26	Federal #1	NMOCD Reference	#: 2RP-1624	
Land Owner: US Bureau of Land	Management Address:	620 E. Greene St., Carlsbad, NM	88220-6292	
Unit Letter: <u>"G" (SW/NE)</u> Section:	<u>26</u> Township: 218 Rang	e: 28E County: Eddy GPS	Coordinates: 32.45	52530_ N 104.054850_ W
Depth to Ground Water: ≈ 13	<u>5' - 140'</u> Distance	to Surface Water Body: 🔲 <20	0' 🗆 200' - 1,000'	<u> </u>
Wellhead Protection Area: <1,0	00' from Water Source	or <200' from Domestic Water S	Source? □Y ☑N	
NMOCD Ranking Score: 0 S	oil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50	<u></u>	Chloride: □100
			□1,000 ≥ 5,000	☐ 500 ※ 1,000
Date/Time of Release: 4/4/13; time	ne unknown Type of Rele	ease: Produced Water Approx	kimate Volume of R	elease: 25 bbls
Background Information:				
attributed to internal corrosion. TI	site water storage tank de ne release impacted an ai se activities, a repair clam	ed at the North Indian Flats 26 Fe eveloped a leak, resulting in a rele rea of the caliche well pad and tar up was installed to mitigate the rel	ease of produced wat nk battery pad meas	er. The release was uring approximately 5,800
Summary of Field Activities:				
were advanced along the flow path HA-1 near the release point and e increments. Soil boring HA-1 throuborings HA-5 and HA-6 were each chloride test kit and/or PID. A total Laboratories in Hobbs, New Mexicand BTEX constituent concentration.	h of the release to investig nding with soil boring HA-6 ugh HA-4 were each advar n advanced to total depths l of 4 soil samples (HA-1 @ co, for analysis of TPH, BT ons were less than the app	ation of the release site commence ate the vertical and horizontal extendance the terminus of the flow pathoced to total depths of approximate of approximately 3 feet bgs. Core 3', HA-3 @ 3', HA-4 @ 3', and HAEX, and/or chloride concentrations propriate laboratory method detections the HA-6 @ 3' to 4,560 mg/kg in so	ent of impacted soil, b h. The soil borings we ely 6 feet below groun soil samples were fie A-6 @ 3') were subm s. Laboratory analytic ion limit (MDL) in all s	eginning with soil boring ere advanced in 3-foot id surface (bgs), while soil ld-screened using a litted to Cardinal al results indicated TPH
Proposed Activities:				
BOPCO proposes a risk-based strateg delineation, a trench will be advanced a heavily impacted area at the site). If we Due to environmental and safety conce excavated to a total depth of 3 feet bgs excavation. This engineered control will inhibiting vertical migration of contamin The areas represented by soil borings	at a location equidistant betwe rtical delineation cannot be ac erns, and to preserve the integ and backfilled with non-impact I shed moisture to the edge of ants to groundwater.	en hand-augered soil borings HA-1 and hieved, a drilling rig will be mobilized to rity of the on-site storage tanks, the are cted material. Prior to backfilling, a 20-n the liner and beyond the maximum hor	d HA-2, along the flow pa the site to advance a so as defined by soil boring ill polyurethane liner will rizontal extent of underly	ath of the release (the most oil boring near that location. Is HA-1 through HA-4 will be be installed on the floor of the ing impacted soil, effectively
Proposed Soil Boring/Monitor V		Name/Descri	iption:	
NN	w w			
N	vv W			
N	w			
NN	w			<u> </u>
N	w			
Attachments:				

Attachment #1: Initial C-141

Attachment #2: Site Location Map

Attachment #3: Site & Sample Location Map Attachment #4: Soil Chemistry Data Table

Attachment #5: Field-Test Results
Mtachment #6: Photographs

<u>District 1</u> 1625 N. French Dr., Hobbs, NM District II

APR 1.6 2013 Princials and Natural Resolution District III

1000 Rio Brazos Road, Aztec, NM 87410 District IV

NMOCD ARTESIA 2200 South St. Francis Dr.

1220 S. St. Francis Dr., Santa Fe, NM 8/505

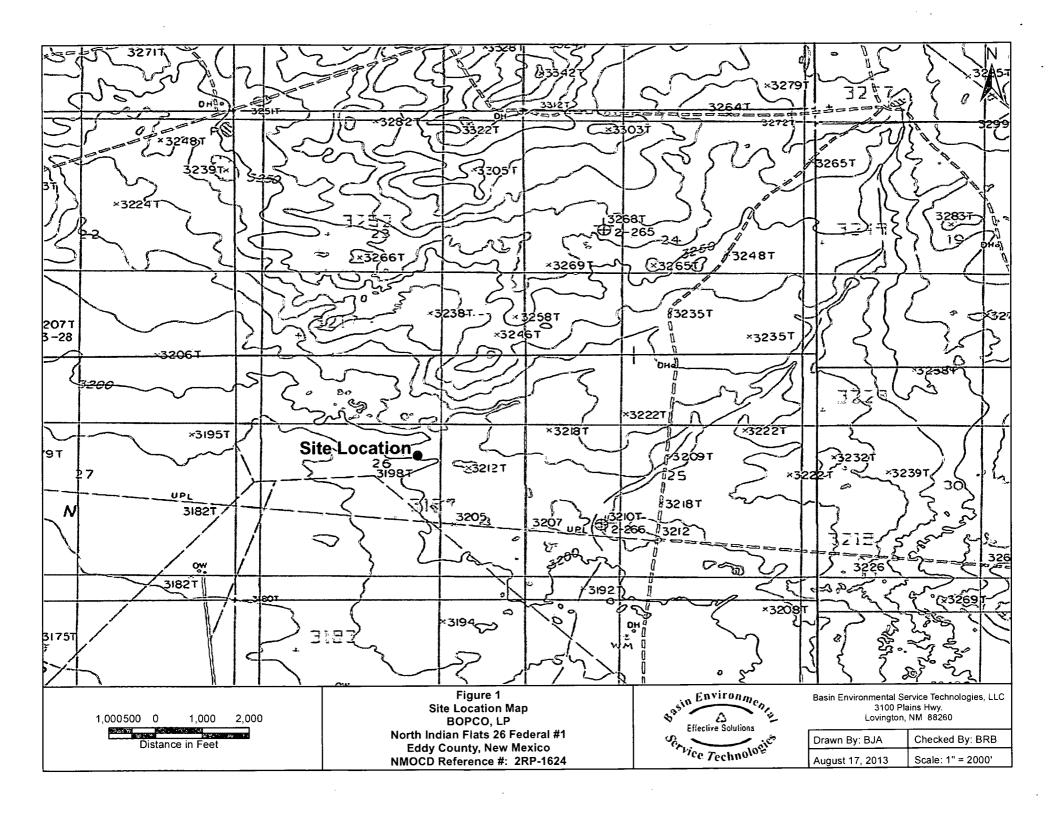
State of New Mexico APR 1.6 2013 Energy Minerals and Natural Resources

Santa Fe, NM 87505

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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NWIT	31079	4207				OPERAT	OR			al Report	П	Final Report	
Name of Co			2	60737	(Contact: Toi	ny Savoie					•	
							lo. 575-887-732	29					
						acility Typ	e: Exploration a	ınd Pro	oduction				
Surface Owner: Federal Mineral Owner: F						ederal			API No	. 30-105-2	7556		
LOCATIO						OF REI	EASE			015			
Unit Letter						/South Line Feet from the		East/West Line		County			
G	26	215	28E	2150	North	,	1980	East		Eddy			
		W 104.054850)		<u></u>								
				NATI	URE	OF RELI	EASE						
Type of Relea	ase Produce	d water									ecovered: None		
Source of Re	lease 3" wa	ter dump line				Date and H 4/4/13 time	our of Occurrenc	e	Date and 10:00 a.m	Hour of Discovery 4/4/13			
Was Immedia	ate Notice (Given?				If YES, To			10.00 a.ii	· · · · · · · · · · · · · · · · · · ·			
			Yes 🗵	No Not Rec	quired								
By Whom? Was a Water	nourse Page					Date and H		ha Wai	tanaauraa				
was a water	course Reac		Ycs [] No		11 1E5, VC	lume Impacting t	ne wa	iercourse.				
If a Watercou	irse was Im	nacted Descr	ihe Fully *	<u> </u>		<u> </u>					<u>.</u>		
Corrosion. A Describe Are	repair clam a Affected ped and sto	p was placed on site o	on the affe	n Taken.* The 3" weeted area of the pip ken.* The spill affective the contraction of the	cted ap	proximately:	5800 sq.ft. of cali	che we	II pad and ta	ink battery p	ad. Th	e saturated	
I hereby certi regulations al public health should their o	fy that the ill operators or the environment. In a	information gi are required t ronment. The lave failed to a ddition, NMC	o report and acceptance acceptanc	e is true and comple nd/or file certain rel ce of a C-141 repor investigate and rel stance of a C-141 re	lease no t by the mediate	otifications and NMOCD me contaminati	nd perform correct arked as "Final R on that pose a thr	ctive ac eport" eat to g	tions for rel does not rel ground wate	eases which ieve the ope r, surface wa	may en rator of ater, hu	idanger Tiability man health	
- O o						OIL CONSERVATION DIVISION							
Signature: Ory Succe						Approved by Environmental Specialistical By Mile Beautier							
Printed Name	: Tony Sav	oie				Approved by	Environmental S	be Gill	fied By	11/4 2	KNOCO	1cor_	
Title: Waste l	Managemer	nt and Remedi	iation Spe	cialist		Approval Dat	APR 1720	13	Expiration	Date:			
E-mail Addre Date: + Attach Addir	/16/17	3	Phone	: 432-556-8730		iuidelines.	Approval: tion per OCD SUBMIT REM AL NO LATER , 2013	EDIA	TION	Attached 2RF	21(024	



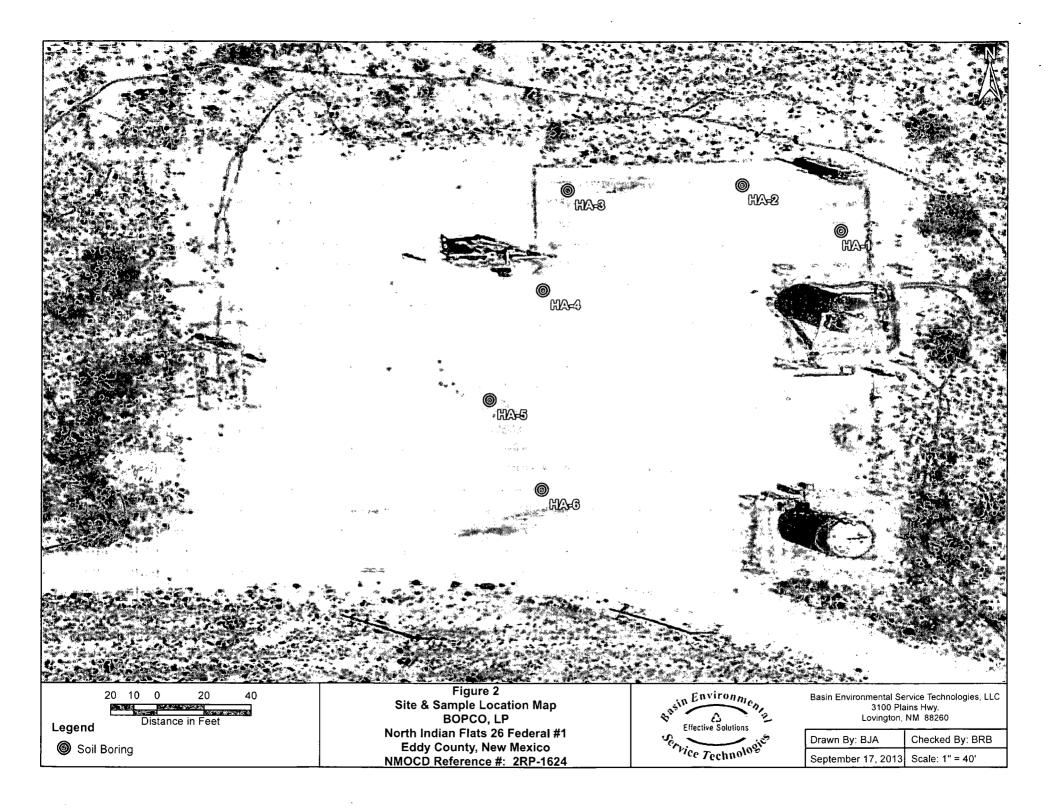


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP NORTH INDIAN FLATS 26 FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1624

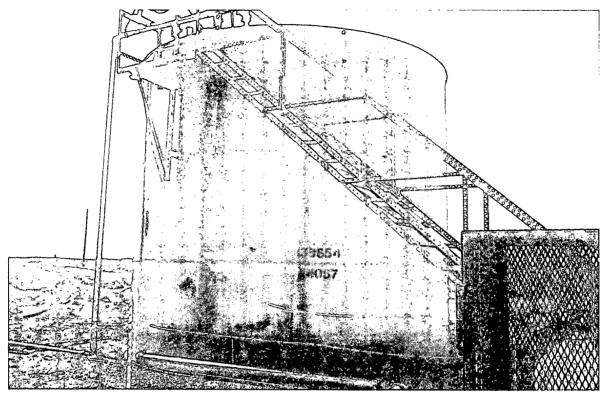
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL	4500 CI-B
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
HA-1 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	4,560
HA-3 @ 3'	3'	7/29/2013	In-Situ	<0.050	< 0.050	<0.050	< 0.150	< 0.150	<10.0	<10.0	<10.0	<10.0	576
HA-4 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,680
HA-6 @ 3'	3'	7/29/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	160
NMOCD Criteria				10					50		-	5,000	1,000

^{- =} Not analyzed.

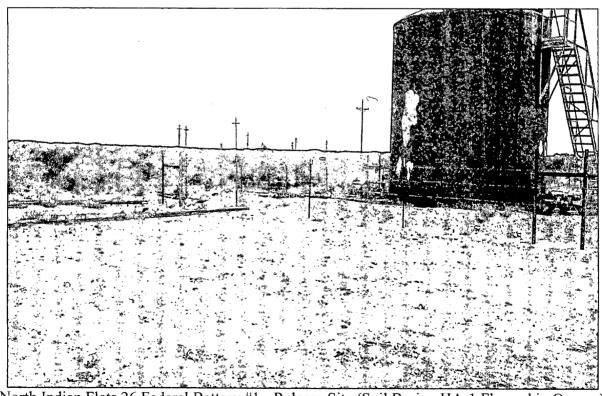
TABLE 2 FIELD-TEST RESULTS

BOPCO, LP NORTH INDIAN FLATS 26 FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1624

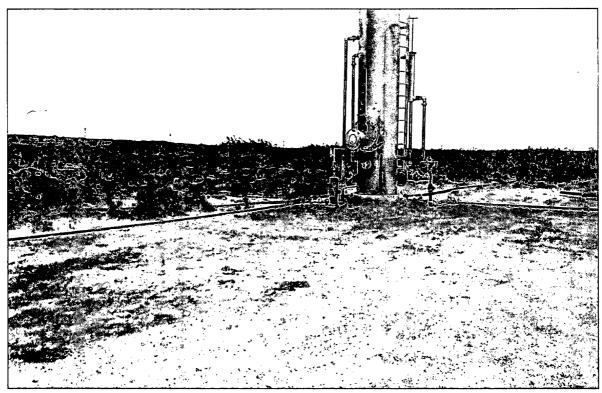
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	Hach Quantab CHLORIDE (PPM)	PID READING
HA-1 @ Surface	Surface	7/29/2013	In-Situ	3,744	0.0
HA-1 @ 3'	3'	7/29/2013	In-Situ	4,048	0.0
HA-1 @ 6'	6'	7/29/2013	In-Situ	2,292	0.0
HA-2 @ Surface	Surface	7/29/2013	In-Situ	3,744	0.0
HA-2 @ 3'	3'	7/29/2013	In-Situ	1,916	0.0
HA-2 @ 6'	6'	7/29/2013	In-Situ	2,716	0.0
HA-3 @ Surface	Surface	7/29/2013	In-Situ	896	0.0
HA-3 @ 3'	3'	7/29/2013	In-Situ	508	0.3
HA-3 @ 6'	6'	7/29/2013	In-Situ	708	0.0
HA-4 @ Surface	Surface	7/29/2013	In-Situ	5,112	0.0
HA-4 @ 3'	3'	7/29/2013	In-Situ	1,916	0.8
HA-4 @ 6'	6'	7/29/2013	In-Situ	1,120	0.0
HA-5 @ Surface	Surface	7/29/2013	In-Situ	3,196	0.0
HA-5 @ 3'	3'	7/29/2013	In-Situ	192	0.0
HA-6 @ Surface	Surface	7/29/2013	In-Situ	5,524	0.0
HA-6 @ 3'	3'	7/29/2013	In-Situ	192	0.6



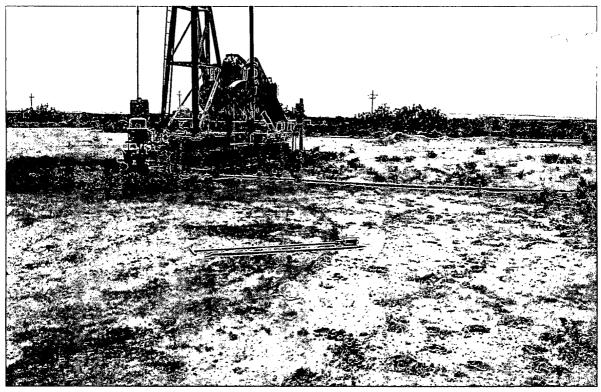
North Indian Flats 26 Federal Battery #1 - Release Site



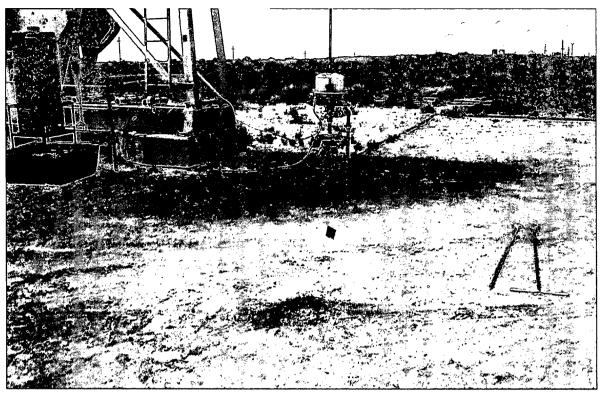
North Indian Flats 26 Federal Battery #1 - Release Site (Soil Boring HA-1 Flagged in Orange)



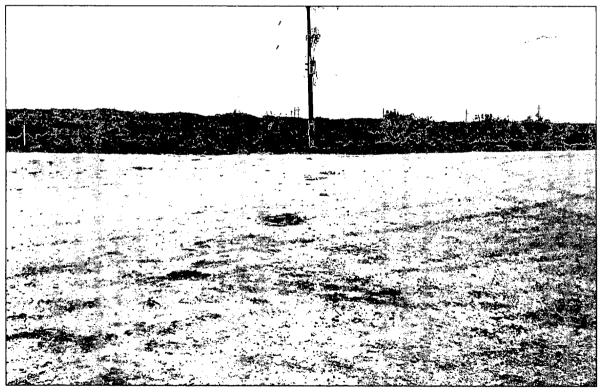
North Indian Flats 26 Federal Battery #1 - Flow Path (Soil Boring HA-2 Flagged in Orange)



North Indian Flats 26 Federal Battery #1 - Flow Path (Soil Boring HA-3 Flagged in Orange)



North Indian Flats 26 Federal Battery #1 - Soil Boring HA-4 (Flagged in Orange)



North Indian Flats 26 Federal Battery #1 - Flow Path (Looking South (Soil Boring HA-5 Flagged in Orange)