HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work	*	On-Site Remediation	*	Soil Testing	*	Excavation
310ct08						
TO: Sherry	Bonham				DEN	IIED
,		II, Artesia				
REFERENC	E: Remedia	ation Work Plan				

OPERATOR: OXY USA LOCATION: Pure Gold A Federal #8 API: 30-015-35296 LEGALS: UL F, SEC. 21, T23S, R31E GPS: N32 17.508 W103 47.118 DEPTH to GROUND WATER: 100' (According Eddy to Depth to Ground Water Map)

General Site Characteristics: The release from the tank battery at this location affected areas in the pasture to the south and to the west of the battery as well as the area inside the berm. The area to the south has very low contaminant levels and is contained to a small area (approx 40' x 40'). The area to the west of the road was contained to a very small area (approx 30' x 30') due to the contour of the land.

Site ranking Score: 0 Depth to groundwater is >100', There is not a water source or domestic well within 1000'. There is no surface body of water within 1000'.

Soil Remediation Action Levels: Since Benzene, BTEX, and TPH are good according to the ranking criteria, remediation of the contaminants to the OCD acceptable level can be easily achieved. In the delineation process, chloride levels are shown to drop rather quickly due the presence of clay at approximately 10'BGS.

Delineation: Lab results are included with this plan.

Sketch of Affected Area: A sketch (not drawn to scale) is included to be used in conjunction with the lab results and sample points.

Work Plan Proposal: For the affected area south of the battery: Sample point #1-due to very low concentrations, we propose to blend the surface soil with the deeper soil to eliminate discoloration. Sample #2- due to contaminant concentration at the surface only, we propose to blend this soil in with the deeper soil until we achieve a chloride concentration of <250ppm. For the area west of the battery: Sample point #3- due to the chloride level dropping rather quickly from the surface downward, we propose excavating two feet from this area, lining it with a 20mil liner, and backfilling with like material.

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delineatio one foot o	n we have of soil from	he battery, Sample points 4&5: determined the depth to whic inside the entire battery, back d all lines and obstacles, and ba	h the conta fill with cle	aminants traveled, we an caliche, line it with	propose to remove
Notes/Cor	nments:		<u></u>		
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Submitted	1	n K. Black, Hungry Horse Enviro	nmental Se	ervices	

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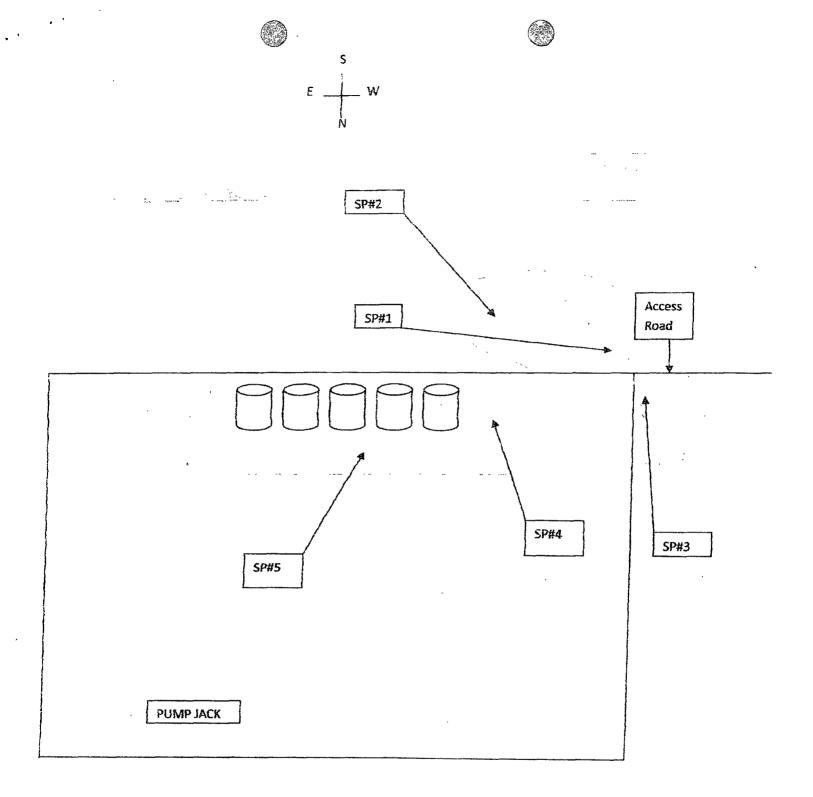
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Note: Drawing note to Scale



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PHONE (575) 393-2328 . 101 E. MARLAND . HOBBS, NM 88240

HUNGRY HORSE ENVIRONMENTAL SERVICES ATTN: VERNON K. BLACK P.O. BOX 1058 HOBBS, NM 86241 FAX TO: (575) 391-4585

Receiving Date: 10/22/08 Reporting Date: 10/29/08 Project Owner: OXY USA Project Name: PURE GOLD A FED #8 Project Location: EDDY COUNTY, NM

Sempling Date: 10/20/08 Semple Type: SOIL Sample Condition: COOL & INTACT Semple Received By: ML Analyzed By: ZL

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS D	ATE	10/28/08	10/28/08	10/28/08	10/28/08
H16185-9	SP#3 13' BGS	<0.050	< 0.050	<0.050	<0.300
H16185-10	SP#4 SURFACE	< 0.050	0.068	0.063	0.476
H16185-11	SP#4 5' BGS	<0.050	<0.050	<0.050	0.304
H16165-12	SP#4 8' BGS	<0.050	<0.050	<0.050	0.383
H16185-13	SP#4 10' BGS	<0.050	<0.050	<0.050	< 0.300
H16165-14	SP#5 SURFACE	2.06	26.5	18.1	78.4
H16165-15	SP#5 1' BGS	<0.050	0.143	0.122	0.683
H16165-18	SP#5 3' BGS	<0.050	<0.050	<0.050	<0.300
H16165-17	SP#5 5' BGS	<0.050	<0.050	<0.050	<0.300
Quality Contr	0)	0.045	0.050	0.051	0.158
True Value Q		0.050	0.050	0.050	0.150
% Recovery		90.0	100	102	104
	ent Difference	16.3	1.0	0.8	1.3

METHOD: EPA SW-846 80218

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Kure Chemist

10/29/18

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ANALYTICAL RESULTS FOR HUNGRY HORSE ENVIRONMENTAL SERVICES ATTN: VERNON K. BLACK P O BOX 1058 HOBBS, NM 88241 FAX TO: (575) 391-4585

Receiving Date: 10/22/08 Reporting Date: 10/27/08 Project Owner: OXY USA Project Name: PURE GOLD A FED #8 Project Location: EDDY COUNTY, NM

LAB NUMBER SAMPLE ID

Sampling Date: 10/20/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM DRO (>C10-C28) CI°

(C6-C10) (mg/kg) (mg/kg) (mg/kg)

GRO

ANALYSIS DATE	10/23/08	10/23/08	10/23/08
H16165-14 SP#5 SURFACE	4,240	15,800	1,460
H16185-15 SP#5 1' BGS	<10.0	<10.0	2,360
H18185-18 SP#5 3' BGS	<10.0	<10.0	80
H16165-17 SP#5 5' BGS	<10.0	<10.0	48
Quality Control	559	516	510
True Value QC	500	500	500
% Recovery	112	103	102
Relative Percent Difference	9.0	4.7	2.0

METHODS: TPH GRO & DRO. EPA SW-846 8015 M; CI" Std. Methods 4500-CI'B "Analyses performed on 1:4 w.v aqueous extracts.

Hune Chemist

IDATION

H18165 TCL HHE

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(mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

GRO

(C6-C10)

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ANALYSIS I	DATE	10/23/08	10/23/08	10/23/08
H18165-1	SP#1 SURFACE	<10,0	<10.0	96
H18185-2	SP#1 2' BGS	<10.0	30.1	48
H16185-3	SP#2 SURFACE	427	14,800	2,240
H16185-4	SP#2 2' BGS	28.8	31.3	32
H16165-5	SP#3 SURFACE	<10.0	37.8	9,800
H18185-6	SP#3 5' BGS	<10.0	<10.0	5,840
H10165-7	SP#3 10' BGS	<10.0	<10.0	3,920
H16165-8	SP#3 12' BGS	<10.0	<10.0	432
H18165-9	SP#3 13' BGS	<10.0	78.8	432
H16165-10	SP#4 SURFACE	10.9	46.4	4,720
H18185-11	SP#4 5' BGS	<10.0	10.2	1,410
H18165-12	SP#4 8' BGS	27.8	341	2,280
H16165-13	SP#4 10' BGS	<10.0	<10.0	288
Quality Contr	ro)	538	486	510
True Value QC		500	500	500
% Recovery		108	97.2	102
Relative Parcent Difference		4.5	1.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI Std. Methods 4500-CIB *Analyses performed on 1:4 wtv aqueous extracts.

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H16165 TCL HHE

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Sampling Date: 10/14/08 & 10/20/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
		10/28/08	10/28/08	10/28/08	10/28/08
H18185-1	SP#1 SURFACE	<0.050	<0.050	<0.050	< 0.300
H16165-2	SP#1 2' BGS	<0.050	<0.050	< 0.050	<0,150
H16165-3	SP#2 SURFACE	<0.050	0.104	0.335	2.37
H16165-4	SP#2 2' BGS	<0.050	< 0.050	<0.050	<0.300
H16165-5	SP#3 SURFACE	<0.050	<0.050	<0.050	<0.300
H16165-8	SP#3 5' BGS	< 0.050	<0.050	<0.050	<0.300
H16165-7	SP#3 10' BGS	<0.050	< 0.050	<0.050	<0.300
H16165-8	SPH3 12 BGS	< 0.050	< 0.050	<0.050	<0 300
Quality Control		0.045	0.050	0.051	0.156
True Value QC		0.050	0.050	0.050	0.150
% Recovery		90.0	100	102	104
Relative Percent Difference		18.3	1.0	0.8	1.3

METHOD: EPA SW-846 80218

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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10/29/03

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