

Airport 35-1 Spill Remediation Proposal

Spill date: 4-4-2010

Mike Bratcher
NMOCD
Artesia, NM

Mr. Bratcher,

On April 4, 2010 Oxy reported a release of Crude Oil and Produced Water in the amount of 45 barrels. Of these 45 barrels 30 barrels were recovered. Talon LPE was dispatched to delineate this site at the time of the spill. Attached to this proposal is a chart of the delineation results, and the lab analytical that verify these concentrations. Also attached to this form is a copy of the initial C-141 document and a plat map showing the contamination area and sample points. Due to the groundwater in excess of 100' bgs, and due the ranking criteria at 0 points, Oxy proposes to remove 4.5 feet of material in the area of Sample Point A, 1 foot of material at Sample Point B, and 1 foot at sample point D. This area will then be backfilled clean caliche. If any questions arise please feel free to contact me as my information is listed below.

Thanks,

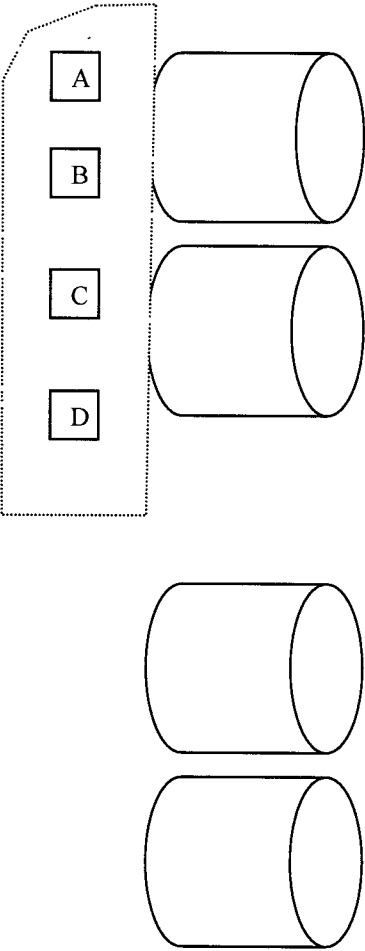
A handwritten signature in black ink, appearing to read "Kelton Beaird". The signature is stylized with a large loop at the end.

Kelton Beaird
HES Spec.
Oxy Mid-Con SW
Carlsbad, NM
575-390-1903

Sample Results- in PPM

Sample Points	Chlorides	TPH	BTEX
A-surface	576		
-4'bgs	12,400		
-8'bgs	400	180	<1
B-Surface	10,800		
-8'bgs	400	295	<1
C-surface	48	51,500	279
-2'bgs	96	704	20
D-surface	64	43,850	206
-2'bgs	16		
-4'bgs		121	2

Map of Airport 35-1 Battery





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ANALYTICAL RESULTS FOR
TALON LPE
ATTN: KYLE SUMMERS
408 WEST TEXAS AVE.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 04/30/10
Reporting Date: 05/03/10
Project Number: 700608.011.01
Project Name: AIRPORT 35 FED 1 BATTERY
Project Location: EDDY CO., NM

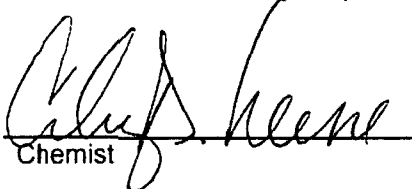
Analysis Date: 05/03/10
Sampling Date: 04/27/10
Sample Type: SOIL
Sample Condition: INTACT @ 16°C
Sample Received By: JH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H19789-1	A-SURFACE	576
H19789-2	A-2'	1,280
H19789-3	A-4'	12,400
H19789-4	B-SURFACE	10,800
H19789-5	B-2'	5,360
H19789-6	B-4'	2,400
H19789-7	C-SURFACE	48
H19789-8	C-2'	96
H19789-9	C-4'	368
H19789-10	D-SURFACE	64
H19789-11	D-2'	< 16
H19789-12	D-4'	16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H19789 Talon LPE

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ANALYTICAL RESULTS FOR
TALON/LPE
ATTN: KYLE SUMMERS
408 TEXAS ST.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 05/14/10
Reporting Date: 05/17/10
Project Owner: 700608.011.01
Project Name: AIRPORT 35 NO.1 BATTERY
Project Location: EDDY COUNTY, NM

Sampling Date: 05/12/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: AB
Analyzed By: AB/ZL/HM

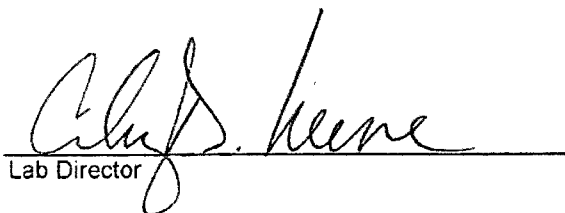
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl* (mg/kg)
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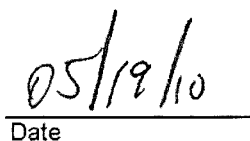
ANALYSIS DATE:	05/18/10	05/18/10	05/17/10	05/17/10	05/17/10	05/17/10	05/17/10
H19905-1 A-8'	10.1	53.4	<0.050	0.191	0.060	0.422	400
Quality Control	454	437	0.009	0.010	0.010	0.032	500
True Value QC	500	500	0.010	0.010	0.010	0.030	500
% Recovery	90.8	87.4	90.0	100	100	107	100
Relative Percent Difference	2.2	1.1	5.5	11.9	10.2	11.2	<0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021; Cl-: Std. Methods 4500-Cl-B

*Analysis performed on a 1:4 w.v aqueous extract. Reported on wet weight

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director


Date

H19905 TBCL TALON

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ANALYTICAL RESULTS FOR
TALON/LPE
ATTN: KYLE SUMMERS
408 WEST TEXAS AVE
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 04/30/10
Reporting Date: 05/17/10
Project Number: 700608.011 01
Project Name: AIRPORT 35 FED 1 BATTERY
Project Location: EDDY CO, NM

Sampling Date: 04/27/10
Sample Type: SOIL
Sample Condition: INTACT @ 16°C
Sample Received By: JH
Analyzed By: AB/ZL

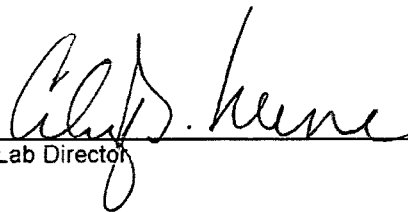
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
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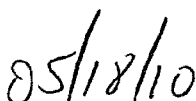
ANALYSIS DATE:	05/13/10	05/13/10	05/11/10	05/11/10	05/11/10	05/11/10
H19789-7 C-SURFACE	12,900	38,600	4.41	74.2	37.1	168
H19789-8 C 2'	110	594	0.168	6.39	2.45	11.2
H19789-10 D-SURFACE	7,250	36,600	4.66	71.6	24.3	110
H19789-11 D 2'	4,210	8,310	0.822	37.2	20.9	99.1
Quality Control	484	469	0.020	0.021	0.019	0.051
True Value QC	500	500	0.020	0.020	0.020	0.060
% Recovery	96.8	93.8	100	105	95.0	85.0
Relative Percent Difference	<0.1	1.7	7.7	7.1	13.3	16.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO. Reported on wet weight.

*Analyses added on 05/11/10 as per client.


Lab Director


Date

H19789 BTEXT PH TALON

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ATTN: KYLE SUMMERS
408 WEST TEXAS AVE.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Analysis Date: 05/26/10
Sampling Date: 05/25/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	C ⁻ (mg/kg)
H19972-1	B - 8'	400
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Ch. Korne
Chemist

Date 05/27/10

H19972 Talon LPE

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ANALYTICAL RESULTS FOR
TALON/LPE
ATTN: KYLE SUMMERS
408 TEXAS ST.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 05/26/10
Reporting Date: 05/27/10
Project Number: 700608.011.01
Project Name: AIRPORT 35
Project Location: EDDY CO., NM


Sampling Date: 05/25/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: AB/ZL

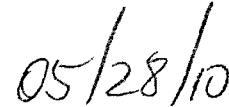
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
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ANALYSIS DATE:	05/26/10	05/26/10	05/27/10	05/27/10	05/27/10	05/27/10
H19974-1 A-8'	21.4	158	<0.050	<0.050	0.420	3.07
Quality Control	486	488	0.017	0.016	0.018	0.055
True Value QC	500	500	0.020	0.020	0.020	0.060
% Recovery	97.2	97.6	85.0	80.0	90.0	91.7
Relative Percent Difference	1.1	5.1	<1.0	4.6	3.7	2.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO. Reported on wet weight.


Lab Director


Date

H19974 BTEXTPH TALON

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ATTN: KYLE SUMMERS
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ARTESIA, NM 88210
FAX TO: (575) 746-8905

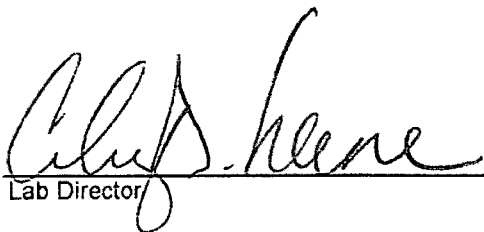
Receiving Date: 05/26/10
Reporting Date: 05/27/10
Project Number: 700608.011.01
Project Name: AIRPORT 35
Project Location: EDDY CO., NM

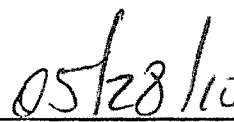
Sampling Date: 05/25/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: AB/ZL

LAB NO.	SAMPLE ID	GRO	DRO	ETHYL		TOTAL
		(C ₈ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE:		05/26/10	05/26/10	05/27/10	05/27/10	05/27/10
H19975-1	D-4'	10.6	111	<0.050	<0.050	0.225
Quality Control		486	488	0.017	0.016	0.018
True Value QC		500	500	0.020	0.020	0.020
% Recovery		97.2	97.6	85.0	80.0	90.0
Relative Percent Difference		1.1	5.1	<1.0	4.6	3.7

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO. Reported on wet weight.


Lab Director


Date

H19975 BTEXT PH TALON

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ANALYTICAL RESULTS FOR
TALON/LPE
ATTN: KYLE SUMMERS
408 TEXAS ST.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 05/26/10
Reporting Date: 06/01/10
Project Number: 700608.011.01
Project Name: AIRPORT 35
Project Location: EDDY CO., NM

Sampling Date: 05/25/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: AB/ZL

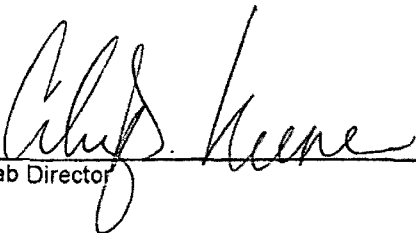
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
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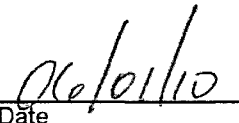
ANALYSIS DATE:	05/28/10	05/28/10	05/28/10	05/28/10	05/28/10	05/28/10
H19972-1* B-8'	26.1	269	<0.050	<0.050	0.120	0.816
Quality Control	469	435	0.019	0.020	0.022	0.066
True Value QC	500	500	0.020	0.020	0.020	0.060
% Recovery	93.8	87.0	95.0	100	110	110
Relative Percent Difference	0.5	7.2	4.9	9.1	6.1	4.5

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO. Reported on wet weight.

*One or more TPH surrogates outside historical limits due to matrix interference.


Lab Director


Date

H19972 BTEXT PH TALON

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