# **Spill Summary and Work Plan**

Incident Date: March 31, 2006

Location: Belco AIA Federal #1 Unit M Section 14 T20S R32E Lea County, New Mexico

The Belco AIA Federal #1 is located 35 miles east of Carlsbad, NM. This site lies on the edge of a flat plain cut by dry drainage channels. There are visible brine playas approximately one half mile to the North West of this location. Watercourses in the area are dry except for infrequent flows in response to major precipitation events. Area surface geology includes Quaternary formations, sandstones over lying limestone & dolomite. The area, dry at the time of the spill, consists of soil that is fine grained, loamy and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface. Groundwater in the area is estimated to be at a depth of  $<50^{\circ}$  feet.

The ranking for this site is (20) based on the as following:

Depth to ground water	< 50'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

### **Incident Description:**

On 3/16/2006 a 6" poly line which was located with-in a below grade valve box split, causing produced waters & BS to spray in the air. The released produced waters pooled in the diked area of the tank battery, south of the tank battery in the adjacent pasture & on the west side of the tank battery on location. The pooling area off location was measured to be 46'x 67' in area, the pooling area on location was measured to be 54'x114' in area.

# **Action Taken:**

The 6" line was isolated and a vacuum truck was called to recover standing fluids. The 6" line was repaired to put back into service. The release volume was 200 bbls of produced water. The recover volume was 60 bbls of produced water. The produced waters from a sample taken at the tank battery were tested and found to contain Chlorides of 170940 ppm.

Soil samples were taken on 4/6/2006 & 6/19/06 in the impacted area located on the west side of the tank battery on location for the vertical delineation of Chlorides. Soil samples were taken on 8/16/2006 in the impacted area south of the tank battery off the location for the vertical delineation of Chlorides. Back ground soil samples were also taken on

8/16/06 from a non impacted area located 20' west of the location. The soil samples taken were submitted to a second party lab & tested for TPH, B-Tex & Chlorides. The analytical results for the TPH & B-tex were under the RRAL for the site. Chlorides in the pooling area on location were 50784 ppm at the surface, 2079 at the 3' depth, 3935 ppm at the 6' depth, and 400' ppm at the 9' depth. Chlorides in the pooling area off location were 39588 ppm on the surface, 16795 ppm at the 1' depth, 13036 ppm at the 2' depth, 10637 ppm at the 3' depth, 3247 ppm at the 4' depth, 1600 ppm at the 5' depth, & 928 ppm at the 10' depth. Back ground soil samples were taken on 8/16/06 from 20' due west of the location in a non-impacted area. The analytical results for Chlorides from the background soil samples were surface <16 ppm, 368 ppm at the 3' depth, 992 ppm at the 6' depth, 800 ppm at the 10' depth. See attached results for analytical.

### Closure Plan:

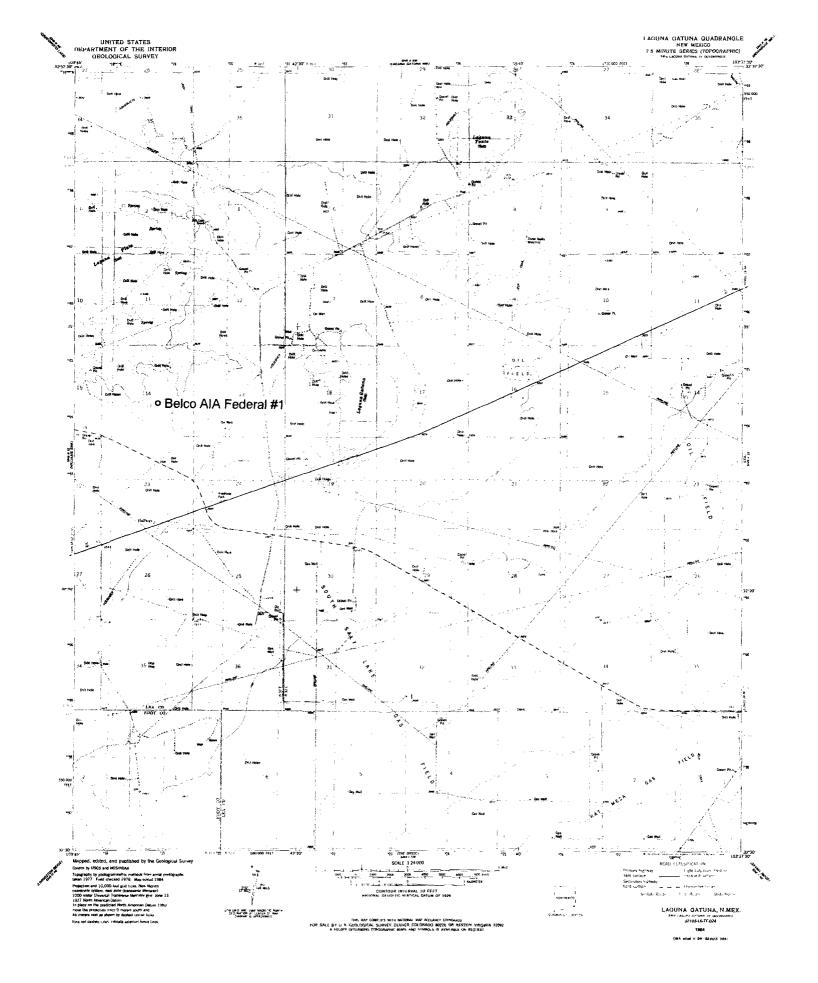
The impacted soils located with-in the diked area of the tank battery will be excavated to a depth of 3'. Soil samples will be taken in the excavated area. Soil samples taken will be submitted to a second party lab & tested for TPH, B-tex, & chlorides. When analytical results are under the RRAL for TPH & B-tex for the diked area of the tank battery and the Chlorides have be documented. The excavated area located with-in the diked area of the tank battery will be backfilled to grade using clean soil and like material. The impacted area on location which measured 54' x 114' will be excavated to a depth of 3' and back filled to grade using clean soil & like material. Impacted soils off location which measured 46'x 67' will be excavated to a depth of 3' and backfilled to grade using clean soil and like material. Excavated soils will be removed to and O.C.D. approved solid wasted disposal facility. The impacted area off location will be reseeded with an approved B.L.M. seed mixture. After the above actions are completed. A final C-141 form with remediation actions taken and attached analytical results will be submitted to O.C.D. requesting closure at this release site.

If you have questions or need additional information, please contact me at 505-748-4500. Or E-mail me at <u>mikes@ypcnm.com</u>.

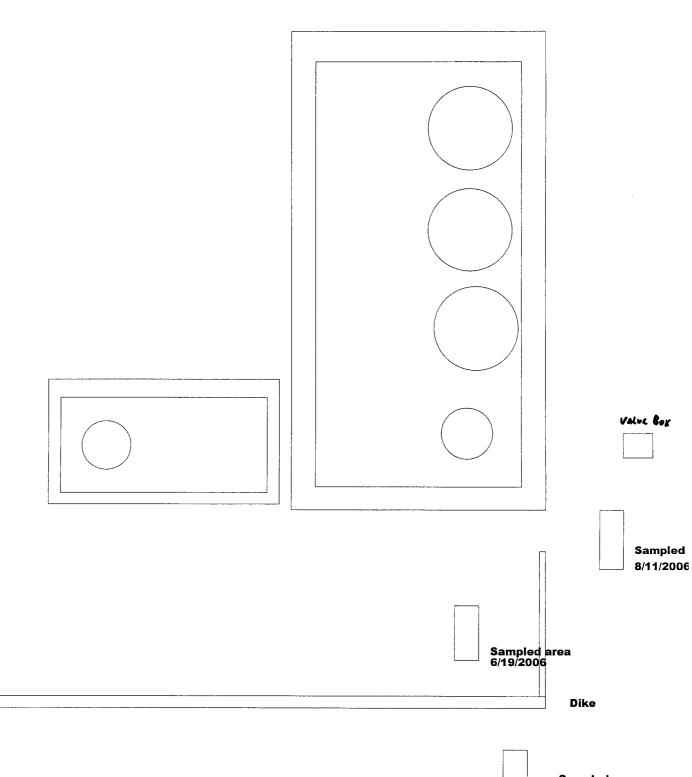
Sincerely,

mile Stillfield

Mike Stubblefield Environmental Regulatory Agent



# **Belco AIA Federal #1**



Sampled area 8/11/2006



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: MIKE STUBBLEFIELD 105 S. 4<sup>TH</sup> STREET ARTESIA, NM 88210 FAX TO: (505) 748-4635

Receiving Date: 08/15/06 Reporting Date: 08/16/06 Project Number: NOT GIVEN Project Name: BELCO AIA FED #1 Project Location: UT M 14-20S-32E Analysis Date: 08/16/06 Sampling Date: 08/11/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: AB

> Cl<sup>--</sup> (mg/kg)

LAB NO. SAMPLE ID

H11444-1	POOLING AREA OFF LOCATION SURFACE	39588
H11444-2	POOLING AREA OFF LOCATION 1' DEPTH	16795
H11444-3	POOLING AREA OFF LOCATION 2' DEPTH	13036
H11444-4	POOLING AREA OFF LOCATION 3' DEPTH	10637
H11444-5	POOLING AREA OFF LOCATION 4' DEPTH	3247
H11444-6	POOLING AREA OFF LOCATION 5' DEPTH	1600
H11444-7	POOLING AREA OFF LOCATION 10' DEPTH	928
H11444-8	WEST LOCATION BACKGROUND @ SURFACE	< 16
H11444-9	WEST LOCATION BACKGROUND 3' DEPTH	368
H11444-10	WEST LOCATION BACKGROUND 6' DEPTH	992
H11444-11	WEST LOCATION BACKGROUND 10' DEPTH	800
Quality Cont	rol	1000
True Value (	QC	1000
% Recovery		100
Relative Per	cent Difference	1.0

METHOD: Standard Methods4500-CIBNOTE: Analyses performed on 1:4 w:v aqueous extracts.

dend

08-16-06 Date

H11444

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Receiving Date: 08/15/06 Reporting Date: 08/17/06 Project Number: NOT GIVEN Project Name: BELCO AIA FED #1 Project Location: UT M 14-20S-32E Sampling Date: 08/11/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE:	08/16/06	08/16/06	08/16/06	08/16/06	08/16/06	08/16/06
H11444-1	POOLING AREASURFACE	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11444-2	POOLING AREA1' DEPTH	<10.0	<10.0	< 0.005	<0.005	< 0.005	<0.015
H11444-4	POOLING AREA3' DEPTH	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Cor	ntrol	781	783	0.103	0.103	0.100	0.300
True Value	QC	800	800	0.100	0.100	0.100	0.300
% Recover	У	97.6	97.9	103	103	99.5	100
Relative Pe	ercent Difference	1.0	6.4	<0.1	0.7	0.8	0.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Soft Cook

8/17/06

### H11444A

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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Project Name: Belco AIA Food	Food # 1	Phone #: 501-748-4500	742.4500			
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ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: MIKE STUBBLEFIELD 105 SOUTH 4th STREET ARTESIA, NM 88210 FAX TO: (505) 748-4335

Receiving Date: 11/27/06 Reporting Date: 11/30/06 Project Number: NOT GIVEN Project Name: BELCO AIA FED #1 Project Location: UT M-14-20S-32E Sampling Date: 11/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS	DATE	11/29/06	11/29/06	11/27/06
H11832-1	#1 EXC. DIKE AREA, 5 SPOT	<10.0	42.8	352
	COMP., 3' DEPTH BTM.			
H11832-2	#2 EXC. DIKE AREA N. SIDE	<10.0	<10.0	960
	WALL AREA 5 SPOT COMP.			
Quality Cor	ntrol	767	765	470
True Value	QC	800	800	500
% Recover	<b>y</b>	95.8	95.7	94.0
Relative Pe	ercent Difference	1.0	1.3	4.2

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI<sup>-</sup>: Std. Methods 4500-CI<sup>-</sup>B \*Analyses performed on 1:4 w:v aqueous extracts.

mjest A. Coch

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#### H11832A

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ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: MIKE STUBBLEFIELD 105 SOUTH 4th STREET ARTESIA, NM 88210 FAX TO: (505) 748-4335

Receiving Date: 11/27/06 Reporting Date: 11/30/06 Project Number: NOT GIVEN Project Name: BELCO AIA FED #1 Project Location: UT M-14-20S-32E Sampling Date: 11/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	11/29/06	11/29/06	11/29/06	11/29/06
H11832-1 #1 EXC. DIKE AREA, 5 SPOT	< 0.005	<0.005	<0.005	<0.015
COMP., 3' DEPTH BTM.				
H11832-2 #2 EXC. DIKE AREA N. SIDE	<0.005	<0.005	<0.005	<0.015
WALL AREA 5 SPOT COMP.				
Quality Control	0.104	0.103	0.101	0.294
True Value QC	0.100	0.100	0.100	0.300
% Recovery	104	103	101	98.0
Relative Percent Difference	1.0	1.5	3.5	5.4

METHOD: EPA SW-846 8260

Burgett AR. Cooke

11/30/06

Date

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