		· · · · · · · · · · · · · · · · · · ·					
		Re	port Type:	Work Pla	an		<u> </u>
General Site Inf	ormation:			a Charles Sector	NTS COLOR OF STREET		an a
Site:	an bagan bar man ing panakan di pangan kana di pangan sa kana di pangan sa kana di pangan sa kana di pangan sa	Continent	tal A State Tank E	Battery			<u>ىسى بىلى بىلى بىلى بىلى بىلى بىلى بىلى ب</u>
Company:	····	COG Ope	rating LLC				
Section, Towns	hip and Range	Unit I	Sec. 30	T-17-S	R-29-E		
Lease Number: API-30-015-			5-35052				
County:		Eddy Cou	inty				
GPS:			32.8121			104.	11641
Surface Owner:		State			······		
Mineral Owner:		·····					
		0.2 mi, turn	left 500' to location	- Injection we	ell location we	st of wellhead	·····
Release Data:	antina a state a far a state Cara a state a far a state					an de ser a se	
Date Released:		5/23/2012					<u></u>
Type Release:		Produced	Water	<u> </u>			
Source of Conta	mination:	2" bull plug	g failed at tank				
Fluid Released:	· · · · · · · · · · · · · · · · · · ·	30 bbls	· ···			··	
Fluids Recovere	d:		a Jr. 186		nt. 3 (1786 s	ر. روبه مراجع المراجع المراجع المراجع الم	. A. MA STATION AND A CONTRACT STATION OF A
Official Commu	nication:	1943 a.	44 (14) 44		St. St. State		
Name:	Pat Ellis				Ike Tavare	Z <u>·</u>	
Company:	COG Operating, L	LC			Tetra Tech	l	
Address:	550 W. Texas Ave	e. Ste. 1300			1910 N. Bi	g Spring	
P.O. Box							
City:	Midland Texas, 79	0701			Midland, T	exas	· · · · · · · · · · · · · · · · · · ·
Phone number:	(432) 686-3023				(432) 682-4	4559	
Fax:	(432) 684-7137						
Email:	pellis@conchores	ources.com			Ike.Tavar	ez@tetratec	h.com
· · · · · · · · · · · · · · · · · · ·							
Ranking Criteria				an y Phalin (s "s		and a straight and a An an	
Depth to Ground	water:		Ranking Score			Site Data	
<50 ft			20				
50.00 ft			10				
50-33 11							

WellHead Protection: Site Data Ranking Score Water Source <1,000 ft., Private <200 ft. 20 Water Source >1,000 ft., Private >200 ft. 0 ł 0 Surface Body of Water: Ranking Score Site Data <200 ft. 20 200 ft - 1,000 ft. 10 0 >1,000 ft. 0 Total Ranking Score 0.....

Accepta	DIE SUILENNAL (I	ig/rg/
Benzene	Total BTEX	ТРН
10	50	5,000

THE .	TET	RA	TEC	Н
-------	-----	----	-----	---

July 24, 2012

RECEIVED SEP 06 2012

NMOCD ARTESIA

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

### Re: Assessment and Work Plan for the COG Operating LLC., Continental A State Tank Battery Located in Unit C, Section 30, Township 17 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Continental A State Tank Battery located in Unit C, Section 30, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.81210°, W 104.11641°. The site location is shown on Figures 1 and 2.

### Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on May 23, 2012, and released approximately thirty (30) barrels of crude oil due to a 2" bull plug failed used at the sales tank at the facility. COG personnel replaced the defective bull plug. Approximately twenty-seven (27) barrels of oil were recovered from the spill area.

The spill initiated inside the facility firewalls impacting the area west of the tanks measuring approximately 5' x 300'. The crude oil breached the northeast and southwest firewalls measuring approximately 5' x 20' and 10' x 25'. The footprint of the spill is shown on Figure 3. The initial Form C-141 is enclosed in Appendix A.



### Groundwater

No wells were located in Section 30. According to the NMOCD groundwater map, the depth to groundwater in this area is approximately 175' below surface. The groundwater data is shown in Appendix B.

### Regulatory

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

### Soil Assessment

On July 3, 2012, Tetra Tech personnel inspected and sampled the spill area. A total of eight (8) auger holes (AH-1 through AH-8) were installed using a stainless steel hand auger to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Referring to Table 1, auger holes (AH-2, AH-3, AH-7, AH-8 and AH-9) either exceeded the RRAL for TPH, benzene or total BTEX. Auger holes (AH-8 and AH-9) did not show a chloride impact to the areas. The remaining auger holes showed elevated chloride concentrations and were not vertically defined. Due to a dense caliche layer, deeper samples could not be collected with a hand auger. During the excavation phase of remediation, backhoe trenches will be installed to collect deeper samples.

### Work Plan

COG proposes to remove impacted material as highlighted (green) in Table 1 and shown on Figure 4. Auger holes (AH-2, AH-3, AH-7, AH-8 and AH-9), exceeding the RRAL for TPH, benzene or total BTEX, will be excavated to depth of 2.0' to 3.0' below surface. Once excavated to the



appropriate depths, confirmation samples will be collected for TPH and/or BTEX. In addition, the areas of AH-1, AH-3, AH-4, AH-5 and AH-7 will be excavated to remove the elevated chlorides to a depth of 2.0' to 3.0'. The excavation bottoms will be field screened for chloride to confirm the removal of the impact. If needed, backhoe trenches will be installed to define the vertical extents of the chloride impact. Based on field screening results, the areas will be excavated to the appropriate depths and backfilled with clean soil.

Due to the location of the spill, the proposed excavation depths and areas may not be achieved due to wall cave ins, oil and gas equipment, electrical, structures or lines which may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the impacted soil is not accessible, the impacted soil will be deferred until the abandonment of the facility. If deeper impact is encountered and the excavation cannot be achieved, the impacted soil will be capped with either 40 mil liner or clay material and backfilled with soil to grade.

Upon completion, a final report will be submitted to the NMOCD. If you have any questions or require any additional information regarding this work plan, please call me at (432) 682-4559.

Respectfully submitted, TETRA TECH

Ike Tavafez Senior Project Manager

cc: Pat Ellis - COG

Figures



Drawn By: Isobel Mannolejo



Drewn By: Iaabel Marmolej





# Tables

# Table 2

# COG Operating LLC. Continental A State #12 Tank Battery Eddy County, New Mexico

Sample ID San	Sample Date	Sample Date Sample	Soil	Status	7	PH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	7/3/2012		X		22.2	1,210	1,232	<0.0200	<0.0200	0.0411	0.603	0.644	2,240
	11	1-1.5	X										1,900
AH-2	7/3/2012	0-1	Ŷ		806	4.240	5.046	0.665	7 88	12:0	8 15	28.7	220.0
				a shake ta s		101918							
AH-3	7/3/2012	- 0-1	X		746	2,280	3,026	4:04	64.1	37.2	82.8	188	16,700
	II	1-1.5	X								Corde.		13,900
	и .	2-2.5	X		19.4								5,760
AH-4	7/3/2012	0-1	x -		194	1,200	1 394	2.68	0.162	1 31	2.89	7:04	12,100
	1	Production of the work	CTANA MONTH	All and a second			n di la canada da		Carlos and and a second	VERREL REVIEW AND ADDRESS		Long and mention	Production and the second s
AH-5	7/3/2012	<b>0-1</b>	X		141	1,070	1,211	<0.100	<0.100	0.213	0.494	0.707	6,920
	1	1-1-5	X X 🛬									an there is a second	2,070
AH-6	7/3/2012	0-1	X		164	3774	541	<i>≤</i> <0.100	0.260	4.13	4.75	9.14	2,650
	u.	1-1:5	X										556
	n	2-2.5	X		-	-	-	-	-	-	-	~	1,420
	u	3-3.5	X		-	-	-	-	-	-	~	-	1,730
	н	4-4.5	X		-	-	-	-	-	-	-	-	1,270
	"	5-5.5	Х		-	-	-	-	-	-	-	-	886
ΔΗ-7	7/3/2012	-1-	Y.		5360	1 940	10 300	24.3	210	130	101	564	1*490
	"	1.1 5	Y		3100	8 500	11 600	24.5	258	134	103	616	1 490
			お事合語様	224 AMES 2						1200 - 21972 24 viz			
AH-8	7/3/2012	-0-1	X		11,800	8,060	19,860	79.2	532	. 266	379	1,256	103
	н	1-1-5	X		4,190	8,570	12,760-	75.1	405	184	273	937	44.3
AH-9	7/3/2012	£ 0-1	x		5.880	6.580	12,460	18.4	88.7-	54 4	39.4	201	39.4
		1-1-5	X		3.960	5.020	8.980	39.2	259	126	182	606	78.4
		は空気のないので現	1283	<b>新学 建构的</b>	ALC: NO	130 L L L L		18 Martine - Barria		· 通知: 20 · 20 · 20 · 20 · 20 · 20 · 20 · 20	De la Maria Con	AT The Albert St	NOT TRACE OF N. 2. D



.

. .

.

·

# Photos

.

. .

.

COG Operating - Continental A State Tank Battery Eddy County, New Mexico



1. View of Tank Battery



2. View of spill area front of tanks

COG Operating - Continental A State Tank Battery Eddy County, New Mexico



3. View of spill area front of heater treaters



4. View of spill area front of heater treaters

COG Operating - Continental A State Tank Battery Eddy County, New Mexico



5. View of firewall breach - area of AH-2



6. View of firewall breach - area of AH-9

# Appendix A

Dispict I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

# **Release** Notification and Corrective Action

					1		OPERAT	FOR	🛛 Ini	tial Report 🔲 Final Repor	
Name of Co	mpany	COG OP	ERATIN	IG LLC			Contact	Pa	at Ellis		
Address	550 W.	Texas, Suite	e 100, Mi	dland, T	X 7970	1	Telephone 1	No. 432-	230-0077		
Facility Nat	ne Co	ontinental A S	State Tan	k Battery	<u> </u>		Facility Typ	e Tan	k Battery	· · · · · · · · · · · · · · · · · · ·	
Surface Ow	ner State			Mi	neral (	)wner			Lease Close	No. (API#) 30-015-29696 st well location	
	_			]			N OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet fro	m the	North	South Line	Feet from the	East/West Line	County	
c	30	17S	29E							Eddy	
<u> </u>	Latitude 32 48.726 Longitude 104 06.985 NATURE OF RELEASE										
Type of Rele	ase Oil						Volume of	Release 30bbls	Volume	Recovered 27bbls	
Source of Re	lease 2" b	ull plug at tani	K				Date and H 05/23/2012	lour of Occurrenc	e Date an 05/23/2	d Hour of Discovery 012 7:00 a.m.	
Was Immedi	ate Notice (	Given?	Yes [	] No 🔲	Not Re	equired	If YES, To	Whom?	Mike Bratcher-	DCD	
By Whom?	Michelle	Mullins					Date and Hour 05/23/2012 8:55 p.m.				
Was a Water	Was a Watercourse Reached?					If YES, Vo	blume Impacting t	he Watercourse.			
If a Watercou	If a Watercourse was Impacted, Describe Fully.*										
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*	1		<u> </u>				
A 2" bull plu	g came out	at the sales tar	nk releasir	ıg oil into	the faci	lity. Th	e bull plug ha	is been replaced.			
Describe Are	a Affected a	and Cleanup A	Action Tak		-						
Initially 30bb several inches contamination	Is of oil was of the con	s released fror taminated soil release and we	n the sale: has been will pres	s tank and removed ent a reme	we wer and hau diation	e able to led to di work pl	o recover 27b sposal. Tetra an to the NM	bls with a vacuun Tech will sample OCD for approva	n truck. All free e the spill site are l prior to any sig	fluids have been recovered and a to delineate any possible nificant remediation work.	
I hereby certi regulations al public health should their o or the enviror federal, state,	fy that the i l operators or the envir perations h ment. In a or local lay	nformation given are required to ronment. The ave failed to a ddition, NMO ws and/or regu	ven above report an acceptanc dequately CD accep lations.	is true an id/or file c æ of a C-1 investiga tance of a	d comp ertain r 41 repo te and r C-141	lete to the elease nort by the emediate report de	ne best of my otifications an e NMOCD m e contaminationes not relieve	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of r	nderstand that put tive actions for r eport" does not r eat to ground wa responsibility for	rsuant to NMOCD rules and eleases which may endanger elieve the operator of liability er, surface water, human health compliance with any other	
Signature:		$Z_{1}$	7.	5				OIL CONS	SERVATIO	N DIVISION	
Printed Name	:	Josh	Russo				Approved by	District Supervise	or:		
Title:		HSE Cc	ordinator				Approval Dat	e:	Expiratio	n Date:	
E-mail Addre	ss:	jrusso@concl	horesource	es.com			Conditions of	Approval:		Attached	

\* Attach Additional Sheets If Necessary

# Appendix B

### Water Well Data Average Depth to Groundwater (ft) COG - Continental A State Tank Battery Eddy County, New Mexico

	16 Sc	outh	28		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	173	south	7		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 <b>79</b>	23	24
30	29	28	27	26	25
31	32	33	34 53	35	36

. - -

	18 S	outh	28 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 65	36

New Mexico State Engineers Well Reports

**USGS Well Reports** 

1

Site Location - Continental A State #12

	16	South	:	29 East	I	
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19 11 <b>0</b>	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

	165	outn		30 East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17	South		29 East	<u> </u>
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30 SITE	29	28	27	26	25
31	32	33	34	35	36

	18	South	:	29 East	t
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17 Sc	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	18 Sc	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17 \$	South	:	29 East	t
i	5	4	3	2	1
	8	9	10	11	1
	17	16	15	14	
	20	21	22	23	2
TE	29	28	27	26	2

1	34	35	36	31
		65		



# **Summary Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: July 17, 2012

Work Order: 12070601 

Project Location: Eddy Co., NM Project Name: COG/Continental A State #12 Tank Battery Project Number: 114-6401422

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
302782	AH-1 0-1'	soil	2012-07-03	00:00	2012-07-05
302783	AH-1 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302784	AH-2 0-1'	soil	2012-07-03	00:00	2012-07-05
302785	AH-3 0-1'	soil	2012-07-03	00:00	2012-07-05
302786	AH-3 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302787	AH-3 2-2.5'	soil	2012-07-03	00:00	2012-07-05
302788	AH-4 0-1'	soil	2012-07-03	00:00	2012-07-05
302789	AH-5 0-1'	soil	2012-07-03	00:00	2012-07-05
302790	AH-5 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302791	AH-6 0-1'	soil	2012-07-03	00:00	2012-07-05
302792	AH-6 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302793	AH-6 2-2.5'	soil	2012-07-03	00:00	2012-07-05
302794	AH-6 3-3.5'	soil	2012-07-03	00:00	2012-07-05
302795	AH-6 4-4.5'	soil	2012-07-03	00:00	2012-07-05
302796	AH-6 5-5.5'	soil	2012-07-03	00:00	2012-07-05
302797	AH-7 0-1'	soil	2012-07-03	00:00	2012-07-05
302798	AH-7 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302799	AH-8 0-1'	soil	2012-07-03	00:00	2012-07-05
302800	AH-8 1-1.5'	soil	2012-07-03	00:00	2012-07-05
302801	AH-9 0-1'	soil	2012-07-03	00:00	2012-07-05
302802	AH-9 1-1.5'	soil	2012-07-03	00:00	2012-07-05

		B	TEX		MTBE	TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(m <b>g</b> /Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
302782 - AH-1 0-1'	< 0.0200 1	< 0.0200	0.0411	0.603		1210 Qs	22.2 <sup>2</sup> Q <sup>6</sup>

continued ...

<sup>1</sup>Sample weighed out of 48-hr preservation time. <sup>2</sup>Sample weighed out of 48-hr preservation time.

### Report Date: July 17, 2012

Work Order: 12070601

### ... continued

		E	TEX		MTBE	TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
302784 - AH-2 0-1'	0.665 3	7.88	12.0	8.15		4240 Qs	806 <sup>4</sup> Je,Qs
302785 - AH-3 0-1'	4.04 5	64.1 J.	37.2	82.8 Je		<b>2280</b> Qs	746 <sup>6</sup> Je,Qs
302788 - AH-4 0-1'	2.68 <sup>7</sup>	0.162	1.31	2.89		1200 Qs	194 <sup>8</sup> գ։
302789 - AH-5 0-1'	<0.100 <sup>9</sup>	<0.100	0.213	0.494		1070 Qs	141 <sup>10</sup> Qa
302791 - AH-6 0-1'	<0.100 11	0.260	4.13	4.75		377 Qs	164 <sup>12</sup> Q <sup>8</sup>
302797 - AH-7 0-1'	24.3 <sup>13</sup>	<b>219</b> J.	130 Je	191 Je		4940 Qs	5360 <sup>14</sup> Je, Qe
302798 - AH-7 1-1.5'	30.5 <sup>15</sup>	258 j.	134	193 Je	< 0.400	8500 Qs	3100 Je
302799 - AH-8 0-1'	79.2 <sup>16</sup>	532 J.	266 Je	379 J.		8060 Qs	11800 <sup>17</sup> Je,Qs
302800 - AH-8 1-1.5'	75.1 <sup>18</sup>	405 Ja	184 Je	273 30	<0.400	8570 Qs	4190 Je
302801 - AH-9 0-1'	18.4 <sup>19</sup>	88.7 Je	54.4 Je	39.4		6580 Qs	5880 <sup>20</sup> գո
302802 - AH-9 1-1.5'	<b>39.2</b> <sup>21</sup>	259 Je	126	182 Je	< 0.400	5020 Qs	<b>3960</b> Je

### Sample: 302782 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		2240	mg/Kg	4

### Sample: 302783 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1900	mg/Kg	4

### Sample: 302784 - AH-2 0-1'

Param	Flag	$\operatorname{Result}$	Units	$\mathbf{RL}$
Chloride		<20.0	mg/Kg	4
<sup>3</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>4</sup> Sample weighed o	ut of 48-hr preservation time.			
<sup>5</sup> Sample weighed o	ut of 48-hr preservation time.			
<sup>6</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>7</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>8</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>9</sup> Sample weighed o	ut of 48-hr preservation time.	Dilution due to excessive hydrocarbons.		
<sup>10</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>11</sup> Sample weighed o	ut of 48-hr preservation time.	Dilution due to excessive hydrocarbons.		
<sup>12</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>13</sup> Sample weighed o	out of 48-hr preservation time.			
<sup>14</sup> Sample weighed o	ut of 48-hr preservation time.			
<sup>15</sup> Sample weighed o	ut of 48-hour preservation time	3.		
<sup>16</sup> Sample weighed o	ut of 48-hr preservation time.			
<sup>17</sup> Sample weighed o	ut of 48-hr preservation time.			
<sup>18</sup> Sample weighed o	ut of 48-hour preservation time			

<sup>19</sup>Sample weighed out of 48-hour preservation time.
<sup>19</sup>Sample weighed out of 48-hr preservation time.
<sup>20</sup>Sample weighed out of 48-hr preservation time.
<sup>21</sup>Sample weighed out of 48-hour preservation time.

Report Date: July 17, 2012		Work Order: 12070601	Page	Number: 3 of 5
Sample: 302785 -	AH-3 0-1'			
Param	Flag	Besult	Units	RL
Chloride		16700	mg/Kg	4
Sample: 302786 -	AH-3 1-1.5'			
Param	Flag	Besult	Units	BL
Chloride		13900	mg/Kg	4
Sample: 302787 -	AH-3 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		5760	mg/Kg	4
Sample: 302788 -	AH-4 0-1'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		12100	mg/Kg	4
Sample: 302789 Param Chloride	AH-5 0-1' Flag	Result 6920	Units mg/Kg	RL 4
Sample: 302790 -	AH-5 1-1.5'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		2070	mg/Kg	4
Sample: 302791 -	AH-6 0-1'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		2650	mg/Kg	4
Sample: 302792 -	AH-6 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		556	mg/Kg	4

Report Date: July 17, 2012		Work Order: 12070601	Page Number: 4 of 5	
Sample: 302793 -	- AH-6 2-2.5'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		1420	mg/Kg	4
Sample: 302794 -	- AH-6 3-3.5'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		1730	mg/Kg	4
Sample: 302795 -	- AH-6 4-4.5'			
Param	Flag	Result	Units	RL
Chloride		1270	mg/Kg	4
Sample: 302796 -	- <b>AH-6 5-5.5'</b> Flag	Result	Units	RL
Chloride		886	mg/Kg	4
Sample: 302797 - Param Chloride	- <b>AH-7 0-1'</b> Flag	Result 1490	Units mg/Kg	RL 4
Sample: 302798 -	AH-7 1-1.5'	·		
Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	4
Sample: 302799 -	AH-8 0-1'			
Param	Flag	Result	Units	RL
Chloride		103	mg/Kg	4
Sample: 302800 -	AH-8 1-1.5'			
Param	$\mathbf{Flag}$	Result	Units	$\mathbf{RL}$
Chloride		44.3	mg/Kg	4

1

Report Date: July 17, 2012		Work Order: 12070601		Page Number: 5 of 5
Sample: 302801	- AH-9 0-1'			
Param	Flag	Result	Units	RL
Chloride		39.4	mg/Kg	4
Sample: 302802	- AH-9 1-1.5'			
Param	Flag	$\mathbf{Result}$	Units	$\mathbf{RL}$
Chloride		78.4	mg/Kg	4