

November 29, 2012

Received 8/22/14

REM 6778

Doc #1733946

Colorado Oil and Gas Conservation Commission
Attn.: Mr. Chris Canfield
707 Wapiti Court, Suite 202
Rifle, Colorado 81650

Subject: Impacted Soil Excavation and Disposal
Well Name: Woodring 15-16
API No.: 05-077-08151
Physical Location: SWSE Section 16 T10S R96W 6PM
Walter Project No.: 266-01-001

Dear Chris,

Walter Environmental & Engineering Group, Inc. (*Walter*) has been assisting Mr. Irvin Johnson, trustee for Woodring Martin E. Family Trust, with soil remediation activities associated with the release of well fluids from the Woodring 15-16 well. The Woodring 15-16 well is located in the SW1/4 of the SE1/4 of Section 16, Township 10 South, Range 96 West, of the 6th P.M. (Latitude/Longitude:39.183833/-108.10687) (Figure 1). The purpose of this letter is to present a summary of the soil remediation activities, soil sampling results, and to request a “No Further Action” determination.

Release Background

It is *Walter*'s understanding that the Woodring 15-16 gas well, used as a domestic natural gas well, was issued a Notice of Alleged Violation (NOAV) for releasing well fluids via a blow-down line that discharged directly onto open ground. The NOAV was issued on December 5, 2011. The released fluids flowed down a steep hillside and pooled in a shallow, unused, irrigation ditch located north of the wellhead.

Stained soils associated with the release are visible on the 2011 Google Earth aerial imagery. The lateral extent of stained soils measured from the aerial imagery is approximately 135 feet long by 16 feet wide down the hill side. The lateral extent of stained soils within the shallow east-west trending irrigation ditch measures approximately 50 feet in length.

Previous Soil Assessment Investigation

A total of eight test pits were excavated for soil sampling purposes in an effort to delineate the vertical and horizontal extent of impacted soil on January 18 and 19, 2012. The complete results were presented to COGCC in a letter report dated April 4, 2012.

Laboratory analytical results from the investigation documented that the soils were impacted at concentrations exceeding the COGCC Table 910-1 allowable concentrations for total petroleum hydrocarbons (TPH), electrical conductivity (EC), sodium absorption ratio (SAR), pH, and arsenic.

The lateral extent of soil impacts were estimated to be between 2,000 and 3,000 square feet. The volume of impacted soil was conservatively estimated to be 400 cubic yards.

No ground water was encountered during the investigation activities.

Soil Excavation and Disposal

Mr. Irvin Johnson contracted Bieser Construction to perform earthwork activities associated with impacted soil excavation and disposal activities. The work was performed under the supervision of **Walter** field staff between September 20, 2012 and October 2, 2012.

The final lateral extent of the soil excavation from the source area down the slope to the shallow irrigation ditch measured approximately 110 feet long by 13 feet wide with an average depth of 4 feet. The excavation within the shallow irrigation ditch measured 25 feet long by 13 feet wide with an average depth of approximately 16 feet. Excavated soil was transported to the Mesa County Landfill for disposal. A total of approximately 300 tons (210 yards) of impacted soil was disposed (Attachment A).

Following excavation activities, **Walter** field staff collected eight confirmation soil samples from the excavation (Figure 2). Two additional background soil samples (BG-4 and BG-5) were also collected (Figure 2). The confirmation and background soil sampling activities were conducted on September 28, 2012 and October 2, 2012.

The confirmation soil samples were submitted to ESC Lab Sciences in Mt. Juliet, Tennessee (ESC) for analysis of benzene, toluene, ethyl-benzene, and xylenes (collectively referred to as BTEX), TPH, EC, SAR, and pH. The background soil samples were also submitted to ESC for analysis of EC, pH, SAR, and arsenic.

The laboratory analytical results are summarized on Table One and the laboratory reports are included in Attachment B. The laboratory results document that petroleum constituents (BTEX and TPH) were below or only marginally above the minimum laboratory method detection limit in all eight confirmation soil samples collected.

SAR and pH exceeded the Table 910-1 Concentration Levels in one confirmation soil sample (South Wall Confirm 6FT). However, the soil sample was at a depth of 6 feet below the ground surface, which is well below the root zone and should not have a negative effect on future vegetative cover.

Electrical conductivity exceeded the Table 910-1 Concentration Levels in one confirmation soil sample (Source 4FT). However, the soil sample was also at a depth of 4 feet below the ground surface, which is also below the root zone and should not have any effect on any future vegetative cover.

Arsenic exceeded the Table 910-1 Concentrations Levels and the background concentrations in two

confirmation soil samples (Source 4FT and TP-8 Area 4FT). However, no petroleum or SAR impacts are associated with the soil samples that exceeded the Table 910-1 Concentration Levels and background concentrations for arsenic. This data suggests that these soils were not impact by the released well fluids. In addition, Ms. Linda O'Rourke with COGCC previously indicated that similar arsenic concentrations have been documented in background soil samples collected by others in this area.

Backfilling Activities

Based on these data, **Walter** recommended that the excavation be backfilled and re-contoured to the natural slope (Photographs 1 through 5). Backfilling was completed on November 2, 2012. According to Mr. Johnson, the disturbed area was also recently re-seeded.

Conclusions

Based on the soil data presented above, **Walter** believes the extent and magnitude of impacts have been fully defined and petroleum and salinity impacts have been adequately addressed. Therefore, **Walter**, on behalf of Martin E. Woodring Family Trust, is requesting a "No Further Action" determination and closure for this release (Remediation Number 6778).

Please call me if you have any questions, comments, or concerns.

Sincerely,

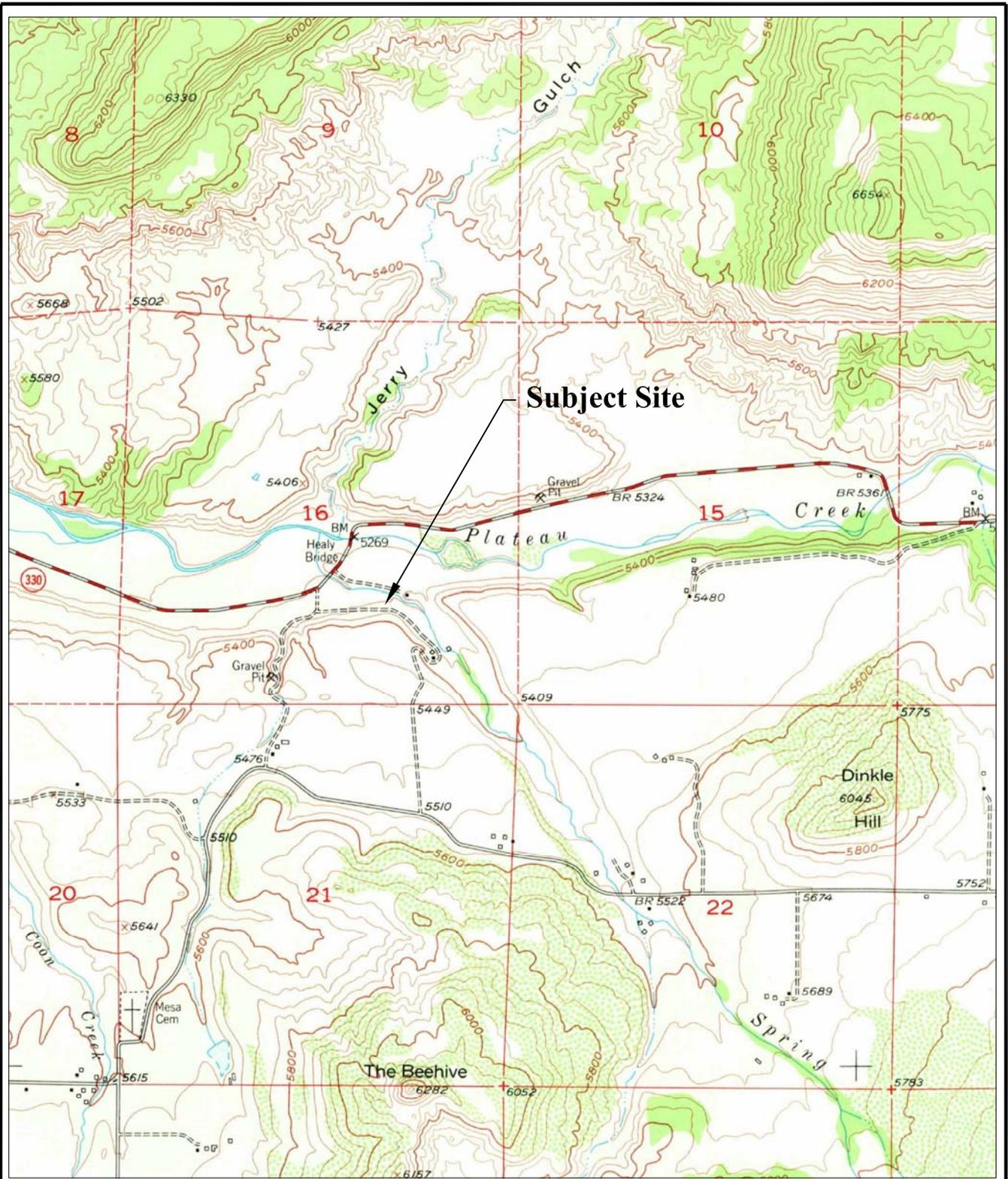


Scott Carmichael, P.G.
Walter Environmental & Engineering Group, Inc.

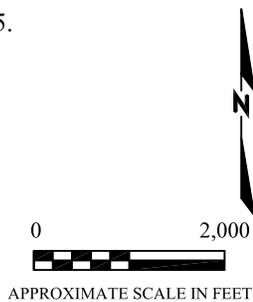
Attachments

cc: Mr. Irvin Johnson (Trustee, Martin E. Woodring Family Trust)

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Source: USGS, Molina, Colorado Quadrangle; 1955.



WALTER ENVIRONMENTAL
— & Engineering Group Inc. —

Site Location Map

Woodring 15-16

SWSE, Section 16, T10S, R96W

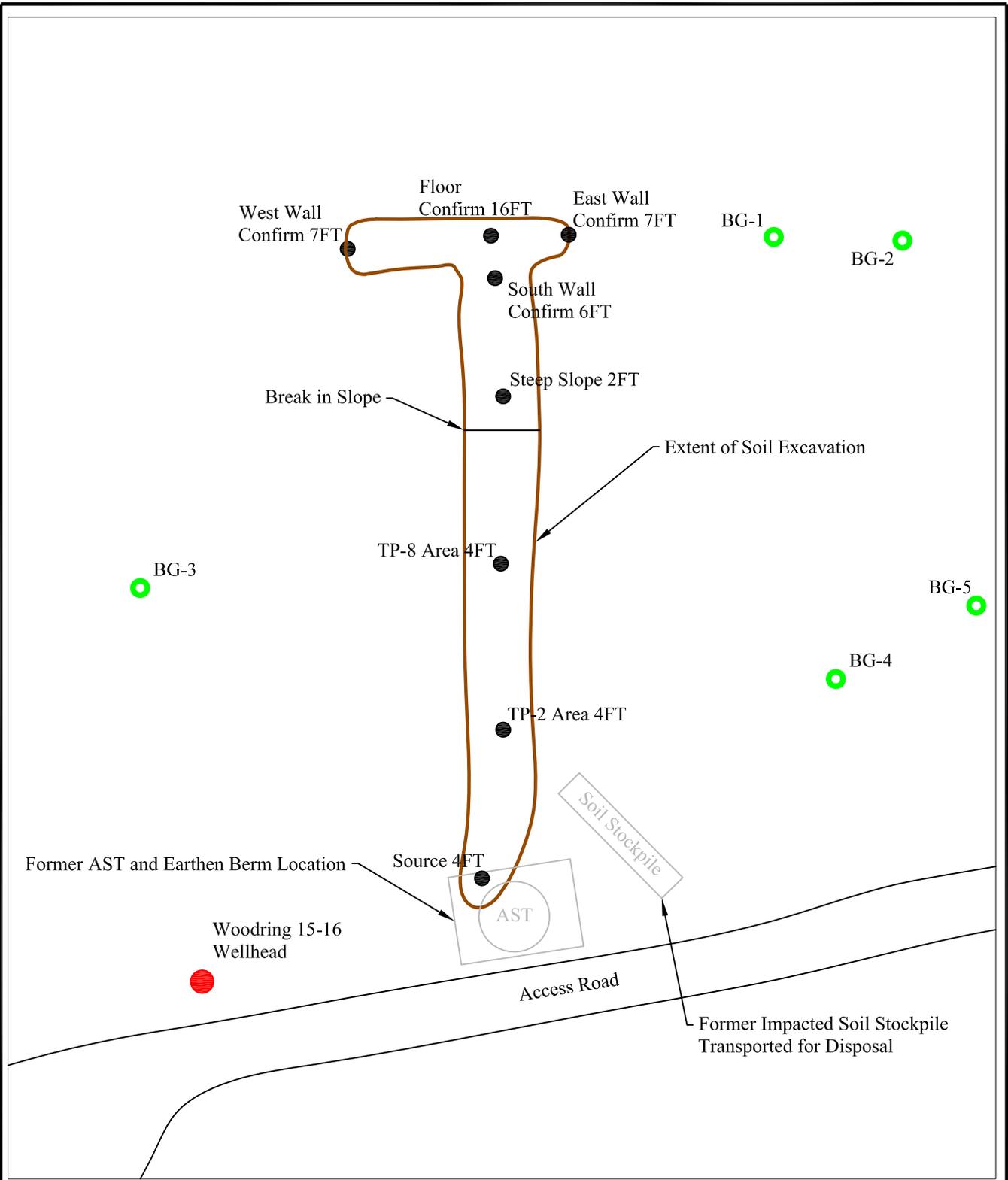
Mesa County, Colorado

11/09/2012

Project No. 266-01-002

Figure 1

11/27/2012 11:22:53 AM c:\wgc\clients\clients-active\woodring-266\remediation\figure 2\figure 2_final.dwg



Description:

- Confirmation Soil Sample Location
- Background Soil Sample Location



WALTER ENVIRONMENTAL
 & Engineering Group Inc.

Soil Sample Map
 Woodring 15-16
 SWSE, Section 16, T10S, R96W
 Mesa County, Colorado

11/09/2012
 Project No. 266-01-002

Figure 2

Table One - Soil Analytical Summary Table

Sample ID:		Table 910-1 Concentration Levels*	West Wall Confirm 7FT	East Wall Confirm 7FT	Floor Confirm 16FT	South Wall Confirm 6FT	Source 4 FT	TP-2 Area 4FT	TP-8 Area 4FT	Steep Slope 2FT	BG-1 @1.5FT	BG-2 @1.5FT	BG-3 @1.5FT	BG-4 0.5FT	BG-5 0.5FT
Date Sampled:			9/28/2012	9/28/2012	9/28/2012	9/28/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	1/19/2012	1/19/2012	1/19/2012	9/28/2012	9/28/2012
Organic Compounds in Soil															
GRO	mg/kg	500	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA
DRO	mg/kg	500	9.9	ND (4.0)	ND (4.0)	6.4	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	NA	NA	NA	NA	NA
Benzene	mg/kg	0.17	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	NA	NA	NA	NA	NA
Toluene	mg/kg	85	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	100	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	NA	NA	NA	NA	NA
Xylene (total)	mg/kg	175	ND (0.0075)	ND (0.0075)	ND (0.0075)	ND (0.0075)	ND (0.0075)	ND (0.0075)	ND (0.0075)	ND (0.0075)	NA	NA	NA	NA	NA
Inorganics in Soils															
Electrical Conductivity (EC)	umhos/cm	<4,000 or 2x background	240	280	930	1,100	4,100	380	320	500	NA	NA	NA	170	140
Sodium Adsorption Ratio (SAR)	ratio	<12	1.8	5.8	6.3	19	5.1	0.46	0.44	7.3	0.754	0.658	9.17	1.0	0.72
pH	su	6-9	8.5	8.6	8.2	9.6	7.9	8.4	8.3	8.6	NA	NA	NA	8.40	8.20
Metals in Soils															
Arsenic	mg/kg	0.39	6.0	7.4	3.7	6.3	16	5.9	12	5.5	1.2	3	4.2	9.2	6.2

Notes:

* - COGCC Table 910-1, dated April 1, 2009.

Bolded and highlighted values exceed the indicated Table 910-1 concentrations.

NA - Not Analyzed

J - Indicates an estimated value.

- No maximum allowable concentration established.

NA - Not Analyzed

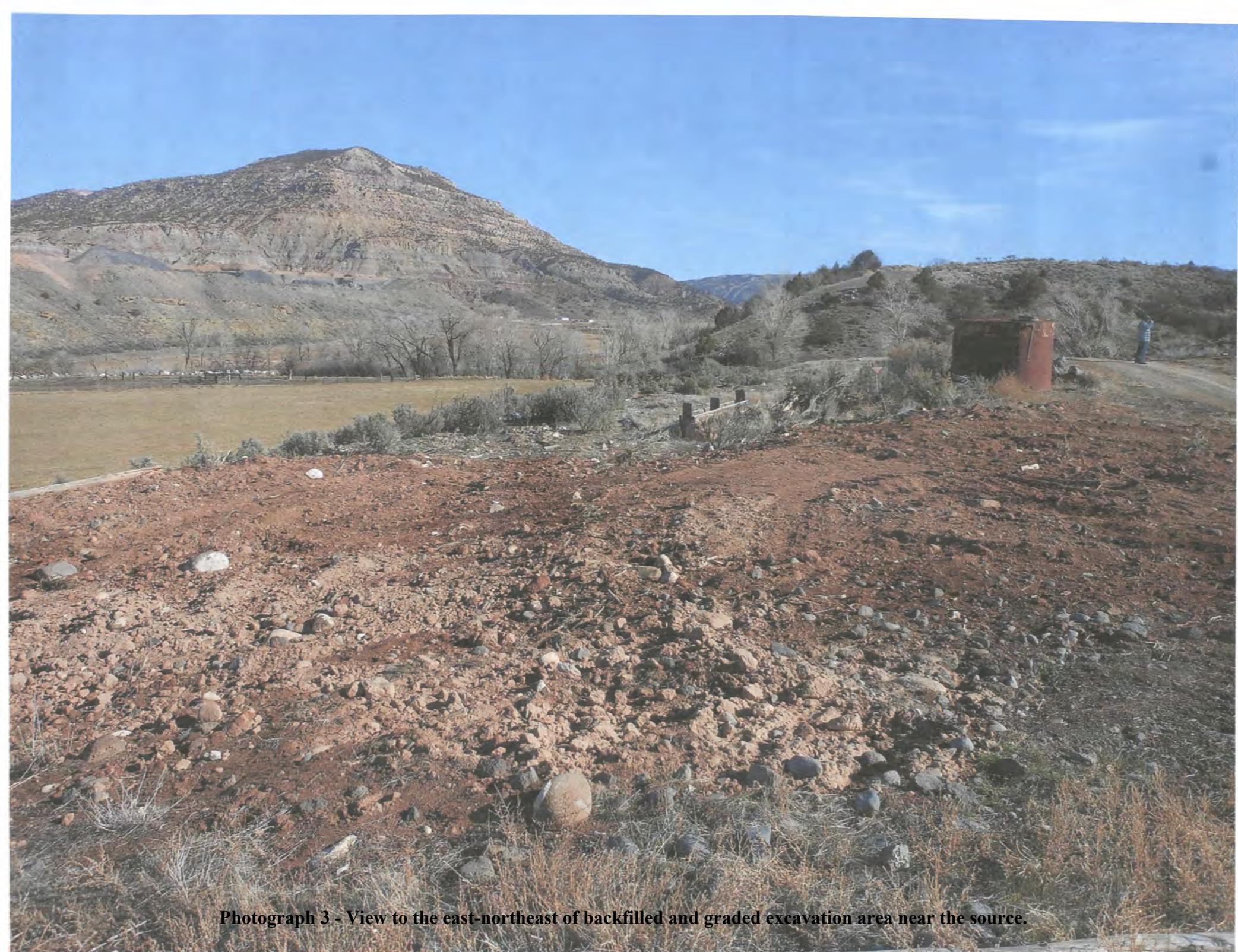
ND (2.9) - Concentration is less than the reported laboratory minimum detection limit.



Photograph 1 - View to the north of backfilled and graded excavation area near the source area.



Photograph 2 - View to the east of the backfilled and graded excavation from the ditch where released well fluids pooled.



Photograph 3 - View to the east-northeast of backfilled and graded excavation area near the source.



Photograph 4 - View to the south from the bottom of the hillside below the shallow irrigation ditch.



Photograph 5 - View to the west-northwest of the backfilled and graded excavation area near the source.

ATTACHMENT A
WASTE MANIFESTS

STATEMENT

MESA COUNTY LANDFILL
 3071 Highway 50
 Grand Junction, CO 81503
 (970) 241-6846

Printed 10/02/12

DATE	PAGE
09/30/12	1

Martin E Woodring Family Trust
 c/o Johnson
 PO Box 275
 Mesa CO 81643

AMOUNT	AMOUNT PAID
5688.60	\$

ACCOUNT NO.
920

DETACH AND RETURN TOP PORTION WITH REMITTANCE

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
08/31/12				Balance Forward		0.00
09/20/12	03-460993		WBUDUMP	Contaminated Soil	10.03	200.60
09/20/12	03-461078		BOWHTDUMP	Contaminated Soil	10.70	214.00
09/20/12	03-461150		BCWHDUMP	Contaminated Soil	12.11	242.20
09/21/12	03-461199			Contaminated Soil	11.48	229.60
09/21/12	03-461246			Contaminated Soil	10.07	201.40
09/21/12	03-461310			Contaminated Soil	11.69	233.80
09/21/12	03-461376			Contaminated Soil	12.00	240.00
09/21/12	03-461457			Contaminated Soil	12.84	256.80
09/26/12	03-462337		WHTDUMP	Contaminated Soil	8.53	170.60
09/26/12	03-462338		RD	Contaminated Soil	9.54	190.80
09/27/12	03-462409		BLUE	Contaminated Soil	9.86	197.20
09/27/12	03-462409		BLCE	Cont Soil >20	1.00	200.00
09/27/12	03-462410		RED	Contaminated Soil	9.73	194.60
09/27/12	03-462459		BLUE	Contaminated Soil	9.93	198.60
09/27/12	03-462460		RED	Contaminated Soil	10.33	206.60
09/27/12	03-462557		BLUE	Contaminated Soil	10.23	204.60
09/27/12	03-462558		RED	Contaminated Soil	10.92	218.40
09/28/12	03-462677		BLUE	Contaminated Soil	11.76	235.20
09/28/12	03-462679		RED	Contaminated Soil	12.18	243.60
09/28/12	03-462734		BLUE	Contaminated Soil	11.63	232.60
09/28/12	03-462735		RED	Contaminated Soil	12.55	251.00
09/28/12	03-462735		RED	Cont Soil >20	1.00	200.00
09/28/12	03-462820		BLUE	Contaminated Soil	10.39	207.80
09/28/12	03-462821		RED	Contaminated Soil	12.99	259.80
09/28/12	03-462907		BLUE	Contaminated Soil	10.27	205.40
09/28/12	03-462908		RED	Contaminated Soil	12.67	253.40
				Current charges		5688.60
				Total balance due		5688.60

ACCOUNT NO.	CURRENT	61-60	61-90	OVER 90	AMOUNT DUE
920	5688.60	0.00	0.00	0.00	5688.60

MESA COUNTY LANDFILL
 3071 Highway 50
 Grand Junction, CO 81503
 (970) 241-6846

STATEMENT

Printed 11/01/12

DATE	PAGE
10/31/12	1

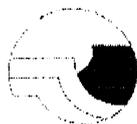
Martin E Woodring Family Trust
 c/o Johnson
 PO Box 275
 Mesa CO 81643

AMOUNT	AMOUNT PAID
6574.73	\$

ACCOUNT NO.
920

DETACH AND RETURN TOP PORTION WITH REMITTANCE

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
09/30/12				Balance Forward		5688.60
10/02/12	03-463678			Contaminated Soil	10.08	201.60
10/02/12	03-463679		GET	Contaminated Soil	11.81	236.20
10/02/12	03-463737		BIESER	Contaminated Soil	9.49	189.80
10/02/12	03-463758		GET R DONE	Loose Trash	9.66	173.20
10/31/12	01-910284			Late Charge		85.33
				Current charges		886.13
				Total balance due		6574.73
 PAST DUE						
ACCOUNT NO.	CURRENT	31-60	61-90	OVER 90	AMOUNT DUE	
920	886.13	5688.60	0.00	0.00	6574.73	



Mesa County
Solid Waste Management

3071 Highway 50
 Grand Junction, CO 81503
 970/241-6846 • Fax 970/ 242-9434

13259

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
 If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: _____ Generating Location: _____
 Address: _____ Address: _____
 Phone No.: _____ Phone No.: _____

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____ Signature _____ Shipment Date _____

Section II TRANSPORTER

Name: _____ Address: _____
 Driver Name/Title: (Print/Type) _____ Truck No.: _____
 Phone No.: _____
 Vehicle License No/State: _____
 Driver Signature _____ Shipment Date _____

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal
 Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Brianna Kivett _____ Brianna Kivett 12/20/12
 Name of Authorized Agent Signature Receipt Date

Section IV ASBESTOS - Generator/Contractor

Contractor Name: _____ Contractor Phone No.: _____

Special Handling Instructions and Additional Information: _____

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: _____ Contractor's Signature _____ Date _____

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530
 (303) 692-2000

Biosol



**Mesa County
Solid Waste Management**

3071 Highway 50
Grand Junction, CO 81503
970/241-6846 • Fax 970/ 242-9434

13260

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: _____	Generating Location: _____
Address: _____	Address: _____
Phone No.: _____	Phone No.: _____

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____	Signature _____	Shipment Date _____
---------------------------------------	-----------------	---------------------

Section II TRANSPORTER

Name: <i>Tom Biron</i> _____	Address: <i>4770 W. Red</i> _____
Driver Name/Title: (Print/Type) <i>Tom Biron</i> _____	Truck No.: <i>1</i> _____
Phone No.: <i>216 2090</i> _____	_____
Vehicle License No/State: <i>0-8-HIG</i> _____	_____
Driver Signature <i>[Signature]</i> _____	Shipment Date _____

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal
 Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____	Signature <i>[Signature]</i> _____	Receipt Date <i>2-9-11</i> _____
--------------------------------	------------------------------------	----------------------------------

Section IV ASBESTOS - Generator/Contractor

Contractor Name: _____	Contractor Phone No.: _____
------------------------	-----------------------------

Special Handling Instructions and Additional Information: _____

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: _____	Print/Type _____	Contractor's Signature _____	Date _____
--------------------------------	------------------	------------------------------	------------

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000

877 7 12



**Mesa County
Solid Waste Management**

3071 Highway 50
Grand Junction, CO 81503
970/241-6846 • Fax 970/ 242-9434

13261

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: _____	Generating Location: _____
Address: _____	Address: _____
Phone No.: _____	Phone No.: _____

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____	Signature _____	Shipment Date _____
---------------------------------------	-----------------	---------------------

Section II TRANSPORTER

Name: <i>Paul Williams</i>	Address: <i>Box 91 / Grand Junction CO 81624</i>
Driver Name/Title: (Print/Type) <i>P. Williams Driver</i>	Truck No.: <i>#2</i>
Phone No.: <i>970-487-3200</i>	
Vehicle License No/State: <i>4971HTL</i>	
Driver Signature <i>[Signature]</i>	Shipment Date _____

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal
Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____	Signature _____	Receipt Date _____
--------------------------------	-----------------	--------------------

Section IV ASBESTOS - Generator/Contractor

Contractor Name: _____	Contractor Phone No.: _____
------------------------	-----------------------------

Special Handling Instructions and Additional Information: _____

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: _____

Print/Type _____	Contractor's Signature _____	Date _____
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Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000



Mesa County
Solid Waste Management

3071 Highway 50
Grand Junction, CO 81503
970/241-6846 • Fax 970/ 242-9434

13262

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name:	Generating Location:
Address:	Address:
Phone No.:	Phone No.:

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name	Signature	Shipment Date
---------------------------------	-----------	---------------

Section II TRANSPORTER

Name: <u>B. J. Olson</u>	Address: <u>8470 4th Road Mesa CO</u>
Driver Name/Title: (Print/Type) <u>Tom B...</u>	Truck No.: <u>1</u>
Phone No.: <u>970 216 2090</u>	
Vehicle License No/State: <u>058-456</u>	
Driver Signature: <u>[Signature]</u>	Shipment Date: <u>9-21-12</u>

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal
Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent: <u>Brianne Kivett</u>	Signature: <u>[Signature]</u>	Receipt Date: <u>9-21-12</u>
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Section IV ASBESTOS - Generator/Contractor

Contractor Name:	Contractor Phone No.:
------------------	-----------------------

Special Handling Instructions and Additional Information:

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title:	Contractor's Signature	Date
--------------------------	------------------------	------

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000



**Mesa County
Solid Waste Management**

3071 Highway 50
Grand Junction, CO 81503
970/241-6846 • Fax 970/ 242-9434

13263

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: _____	Generating Location: _____
Address: _____	Address: _____
Phone No.: _____	Phone No.: _____

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____	Signature _____	Shipment Date _____
---------------------------------------	-----------------	---------------------

Section II TRANSPORTER

Name: <u>B... Const Inc</u>	Address: <u>4470 40th Rd Mesa CO</u>
Driver Name/Title: (Print/Type) <u>TOM BIEBER</u>	Truck No.: <u>1</u>
Phone No.: <u>216 3040</u>	
Vehicle License No/State: <u>658-1156</u>	
Driver Signature _____	Shipment Date <u>9-25-2012</u>

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal
Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

<u>Briana Kivett</u>	<u>Briana Kivett</u>	<u>9-28-12</u>
Name of Authorized Agent	Signature	Receipt Date

Section IV ASBESTOS - Generator/Contractor

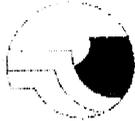
Contractor Name: _____	Contractor Phone No.: _____
------------------------	-----------------------------

Special Handling Instructions and Additional Information: _____

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: _____	Contractor's Signature _____	Date _____
--------------------------------	------------------------------	------------

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000



Mesa County Solid Waste Management

3071 Highway 50 Grand Junction, CO 81503 970/241-6846 • Fax 970/ 242-9434

13265

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: Address: Phone No.:
Generating Location: Address: Phone No.:

Table with 2 columns: Description of Waste, Quantity. Rows 1, 2, 3.

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261...

Generator Authorized Agent Name Signature Shipment Date

Section II TRANSPORTER

Name: Driver Name/Title: Phone No.: Vehicle License No/State:
Address: Truck No.:
Driver Signature Shipment Date

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503
Site Disposal Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent Signature Receipt Date

Section IV ASBESTOS - Generator/Contractor

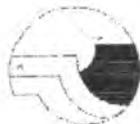
Contractor Name: Contractor Phone No.:

Special Handling Instructions and Additional Information:

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled.

Contractor Name & Title: Print/Type Contractor's Signature Date

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1630 (303) 692-2000



Mesa County Solid Waste Management

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13266

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name, Address, Phone No., Generating Location, Address, Phone No.

Table with 2 columns: Description of Waste, Quantity. Rows 1, 2, 3.

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261...

Generator Authorized Agent Name, Signature, Shipment Date

Section II TRANSPORTER

Name, Driver Name/Title, Phone No., Vehicle License No/State, Address, Truck No., Driver Signature, Shipment Date

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal: Active Face - Landfill, Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent, Signature, Receipt Date

Section IV ASBESTOS - Generator/Contractor

Contractor Name, Contractor Phone No.

Special Handling Instructions and Additional Information:

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled.

Contractor Name & Title, Print/Type, Contractor's Signature, Date

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000



Mesa County Solid Waste Management

3071 Highway 50 Grand Junction, CO 81503 970/241-6846 • Fax 970/ 242-9434

13267

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name, Address, Phone No., Generating Location, Address, Phone No.

Table with 2 columns: Description of Waste, Quantity. Rows 1, 2, 3.

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261...

Generator Authorized Agent Name, Signature, Shipment Date

Section II TRANSPORTER

Name, Driver Name/Title, Phone No., Vehicle License No/State, Address, Truck No., Driver Signature, Shipment Date

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503
Site Disposal: Active Face - Landfill [checked], Asbestos Waste Disposal Cell [unchecked]

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent, Signature, Receipt Date

Section IV ASBESTOS - Generator/Contractor

Contractor Name, Contractor Phone No.

Special Handling Instructions and Additional Information:

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title, Print/Type, Contractor's Signature, Date

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000

Red



Mesa County Solid Waste Management

3071 Highway 50 Grand Junction, CO 81503 970/241-6846 - Fax 970/ 242-9434

13269

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: Address: Phone No.:
Generating Location: Address: Phone No.:

Table with 2 columns: Description of Waste, Quantity. Rows 1, 2, 3.

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Signature Shipment Date

9-27-12

Section II TRANSPORTER

Name: Driver Name/Title: Phone No.: Vehicle License No/State:
Address: Truck No.:

Driver Signature Shipment Date

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503

Site Disposal Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent Signature Receipt Date

Section IV ASBESTOS - Generator/Contractor

Contractor Name: Contractor Phone No.:

Special Handling Instructions and Additional Information:

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: Print/Type Contractor's Signature Date

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000

Blue



**Mesa County
Solid Waste Management**

3071 Highway 50
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13270

NON-HAZARDOUS WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, and IV
If waste is NOT asbestos, complete Sections I, II

Section I GENERATOR

Generator Name: _____ Generating Location: _____
 Address: _____ Address: _____
 Phone No.: _____ Phone No.: _____

Description of Waste	Quantity
1	
2	
3	

Generator's certification: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261, or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____ Signature _____ Shipment Date 9.27.12

Section II TRANSPORTER

Name: Bayer Const Inc Address: 970 W. 2nd St
 Driver Name/Title: (Print/Type) Tom Bayer Truck No.: _____
 Phone No.: 970 216 3090
 Vehicle License No/State: 658-H5G CO
 Driver Signature _____ Shipment Date _____

Section III DESTINATION (LANDFILL USE ONLY)

Site Name: Mesa County Landfill, 3071 Highway 50, Grand Junction, Colorado 81503
 Site Disposal
 Active Face - Landfill Asbestos Waste Disposal Cell

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Brian Kivell Brian Kivell 9.27.12
 Name of Authorized Agent Signature Receipt Date

Section IV ASBESTOS - Generator/Contractor

Contractor Name: _____ Contractor Phone No.: _____

Special Handling Instructions and Additional Information: _____

Contractor Certification: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled. Furthermore, in all respects the material is in proper condition for transport by highway according to applicable international and government regulations.

Contractor Name & Title: _____ Print/Type Contractor's Signature Date

Regulating Agency: Colorado Department of Public Health and the Environment, 4300 Cherry Creek Drive South, Denver, CO 80246-1530 (303) 692-2000

ATTACHMENT B
LABORATORY REPORT



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Scott Carmichael
Walter Env. & Eng. Group -CO
115 N 5th Street, Suite 340
Grand Junction, CO 81501

Report Summary

Monday October 08, 2012

Report Number: L598313

Samples Received: 09/29/12

Client Project: 266-01-002

Description: Woodring 15-16

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

October 08, 2012

Scott Carmichael
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : BG-4 0.5FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 14:30

ESC Sample # : L598313-01
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.4		su	9045D	10/04/12	1
Sodium Adsorption Ratio	1.0			Calc.	10/04/12	1
Specific Conductance	170		umhos/cm	9050AMod	10/05/12	1
Arsenic	9.2	1.0	mg/kg	6010B	10/07/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
 The reported analytical results relate only to the sample submitted.
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 L598313-01 (PH) - 8.4@21.2c



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REPORT OF ANALYSIS

October 08, 2012

Scott Carmichael
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : BG-5 0.5FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 14:45

ESC Sample # : L598313-02
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.2		su	9045D	10/04/12	1
Sodium Adsorption Ratio	0.72			Calc.	10/04/12	1
Specific Conductance	140		umhos/cm	9050AMod	10/05/12	1
Arsenic	6.2	1.0	mg/kg	6010B	10/05/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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 L598313-02 (PH) - 8.2@21.0c



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REPORT OF ANALYSIS

Scott Carmichael
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 08, 2012

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : WEST WALL CONFIRM 7FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 11:45

ESC Sample # : L598313-03
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.5		su	9045D	10/04/12	1
Sodium Adsorption Ratio	1.8			Calc.	10/04/12	1
Specific Conductance	240		umhos/cm	9050AMod	10/05/12	1
Arsenic	6.0	1.0	mg/kg	6010B	10/05/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	8021/8015	10/03/12	5
a,a,a-Trifluorotoluene(PID)	98.4		% Rec.	8021/8015	10/03/12	5
TPH (GC/FID) High Fraction	9.9	4.0	mg/kg	3546/DRO	10/03/12	1
Surrogate recovery(%)						
o-Terphenyl	62.4		% Rec.	3546/DRO	10/03/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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 L598313-03 (PH) - 8.5@21.0c



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REPORT OF ANALYSIS

Scott Carmichael
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 08, 2012

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : EAST WALL CONFIRM 7FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 11:40

ESC Sample # : L598313-04
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.6		su	9045D	10/04/12	1
Sodium Adsorption Ratio	5.8			Calc.	10/04/12	1
Specific Conductance	280		umhos/cm	9050AMod	10/05/12	1
Arsenic	7.4	1.0	mg/kg	6010B	10/05/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.4		% Rec.	8021/8015	10/03/12	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	10/03/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/03/12	1
Surrogate recovery(%)						
o-Terphenyl	67.9		% Rec.	3546/DRO	10/03/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:

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 L598313-04 (PH) - 8.6@21.1c



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REPORT OF ANALYSIS

October 08, 2012

Scott Carmichael
 Walter Env. & Eng. Group -CO
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 Grand Junction, CO 81501

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : FLOOR CONFIRM 16FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 11:30

ESC Sample # : L598313-05
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.2		su	9045D	10/04/12	1
Sodium Adsorption Ratio	6.3			Calc.	10/04/12	1
Specific Conductance	930		umhos/cm	9050AMod	10/05/12	1
Arsenic	3.7	1.0	mg/kg	6010B	10/05/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.6		% Rec.	8021/8015	10/03/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	10/03/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/03/12	1
Surrogate recovery(%)						
o-Terphenyl	58.8		% Rec.	3546/DRO	10/03/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
 The reported analytical results relate only to the sample submitted.
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 L598313-05 (PH) - 8.2@20.9c



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REPORT OF ANALYSIS

Scott Carmichael
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 08, 2012

Date Received : September 29, 2012
 Description : Woodring 15-16
 Sample ID : SOUTH WALL CONFIRM 6FT
 Collected By : Scott Carmichael
 Collection Date : 09/28/12 13:30

ESC Sample # : L598313-06
 Site ID :
 Project # : 266-01-002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	9.6		su	9045D	10/04/12	1
Sodium Adsorption Ratio	19.			Calc.	10/04/12	1
Specific Conductance	1100		umhos/cm	9050AMod	10/05/12	1
Arsenic	6.3	1.0	mg/kg	6010B	10/05/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.4		% Rec.	8021/8015	10/03/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	10/03/12	5
TPH (GC/FID) High Fraction	6.4	4.0	mg/kg	3546/DRO	10/03/12	1
Surrogate recovery(%)						
o-Terphenyl	66.5		% Rec.	3546/DRO	10/03/12	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
 The reported analytical results relate only to the sample submitted.
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Reported: 10/08/12 17:11 Printed: 10/08/12 17:44
 L598313-06 (PH) - 9.6@20.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L598313-01	WG615886	SAMP	pH	R2376775	T8
L598313-02	WG615886	SAMP	pH	R2376775	T8
L598313-03	WG615886	SAMP	pH	R2376775	T8
L598313-04	WG615886	SAMP	pH	R2376775	T8
L598313-05	WG615886	SAMP	pH	R2376775	T8
L598313-06	WG615886	SAMP	pH	R2376775	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Tax I.D. 62-0814289

Est. 1970

Ken Walter
Walter Env. & Eng. Group -CO
115 N 5th Street, Suite 340
Grand Junction, CO 81501

Report Summary

Friday October 12, 2012

Report Number: L598785

Samples Received: 10/03/12

Client Project:

Description: Woodring

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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 (615) 758-5858
 1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ken Walter
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 12, 2012

Date Received : October 03, 2012
 Description : Woodring
 Sample ID : SOURCE 4FT
 Collected By : Jeff Rickard
 Collection Date : 10/02/12 10:15

ESC Sample # : L598785-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.9		su	9045D	10/04/12	1
Sodium Adsorption Ratio	5.1			Calc.	10/09/12	1
Specific Conductance	4100		umhos/cm	9050AMod	10/05/12	1
Arsenic	16.	5.0	mg/kg	6010B	10/07/12	5
Benzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/04/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/04/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/04/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.5		% Rec.	8021/8015	10/04/12	5
a,a,a-Trifluorotoluene(PID)	99.6		% Rec.	8021/8015	10/04/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/05/12	1
Surrogate recovery(%)						
o-Terphenyl	62.8		% Rec.	3546/DRO	10/05/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 10/12/12 16:30 Printed: 10/12/12 16:30
 L598785-01 (PH) - 7.9@20.7c



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REPORT OF ANALYSIS

Ken Walter
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 12, 2012

Date Received : October 03, 2012
 Description : Woodring
 Sample ID : TP-2 AREA 4FT
 Collected By : Jeff Rickard
 Collection Date : 10/02/12 10:30

ESC Sample # : L598785-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.4		su	9045D	10/04/12	1
Sodium Adsorption Ratio	0.46			Calc.	10/09/12	1
Specific Conductance	380		umhos/cm	9050AMod	10/11/12	1
Arsenic	5.9	1.0	mg/kg	6010B	10/07/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/04/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/04/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/04/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8021/8015	10/04/12	5
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	10/04/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/05/12	1
Surrogate recovery(%)						
o-Terphenyl	65.5		% Rec.	3546/DRO	10/05/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/12/12 16:30 Printed: 10/12/12 16:30
 L598785-02 (PH) - 8.4@20.2c



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REPORT OF ANALYSIS

Ken Walter
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 12, 2012

Date Received : October 03, 2012
 Description : Woodring
 Sample ID : TP-8 AREA 4FT
 Collected By : Jeff Rickard
 Collection Date : 10/02/12 11:05

ESC Sample # : L598785-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.3		su	9045D	10/04/12	1
Sodium Adsorption Ratio	0.44			Calc.	10/09/12	1
Specific Conductance	320		umhos/cm	9050AMod	10/11/12	1
Arsenic	12.	5.0	mg/kg	6010B	10/07/12	5
Benzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/04/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/04/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/04/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.4		% Rec.	8021/8015	10/04/12	5
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	10/04/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/05/12	1
Surrogate recovery(%)						
o-Terphenyl	64.5		% Rec.	3546/DRO	10/05/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/12/12 16:30 Printed: 10/12/12 16:30
 L598785-03 (PH) - 8.3@21.7c



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REPORT OF ANALYSIS

Ken Walter
 Walter Env. & Eng. Group -CO
 115 N 5th Street, Suite 340
 Grand Junction, CO 81501

October 12, 2012

Date Received : October 03, 2012
 Description : Woodring
 Sample ID : SLEEP SLOPE 2FT
 Collected By : Jeff Rickard
 Collection Date : 10/02/12 11:35

ESC Sample # : L598785-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.6		su	9045D	10/04/12	1
Sodium Adsorption Ratio	7.3			Calc.	10/09/12	1
Specific Conductance	500		umhos/cm	9050AMod	10/11/12	1
Arsenic	5.5	1.0	mg/kg	6010B	10/07/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/04/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/04/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/04/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/04/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.4		% Rec.	8021/8015	10/04/12	5
a,a,a-Trifluorotoluene(PID)	99.7		% Rec.	8021/8015	10/04/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/05/12	1
Surrogate recovery(%)						
o-Terphenyl	60.3		% Rec.	3546/DRO	10/05/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/12/12 16:30 Printed: 10/12/12 16:30
 L598785-04 (PH) - 8.6@20.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L598785-01	WG616119	SAMP	pH	R2377413	T8
L598785-02	WG616119	SAMP	pH	R2377413	T8
L598785-03	WG616119	SAMP	pH	R2377413	T8
L598785-04	WG616119	SAMP	pH	R2377413	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/12/12 at 16:30:32

TSR Signing Reports: 134
R5 - Desired TAT

Accounting- pending credit app

Sample: L598785-01 Account: WALTERGJCO Received: 10/03/12 09:00 Due Date: 10/10/12 00:00 RPT Date: 10/12/12 16:30

Sample: L598785-02 Account: WALTERGJCO Received: 10/03/12 09:00 Due Date: 10/10/12 00:00 RPT Date: 10/12/12 16:30

Sample: L598785-03 Account: WALTERGJCO Received: 10/03/12 09:00 Due Date: 10/10/12 00:00 RPT Date: 10/12/12 16:30

Sample: L598785-04 Account: WALTERGJCO Received: 10/03/12 09:00 Due Date: 10/10/12 00:00 RPT Date: 10/12/12 16:30